

ALX  
ONCOLOGY



2023

Annual Report

# A Bold Vision for Evorpaccept

Deliver a first-in-class, universal combination agent

**3** Combination Classes

Evorpaccept is being combined with anti-cancer antibodies, antibody-drug conjugates, and checkpoint inhibitors.

**9** Ongoing Studies

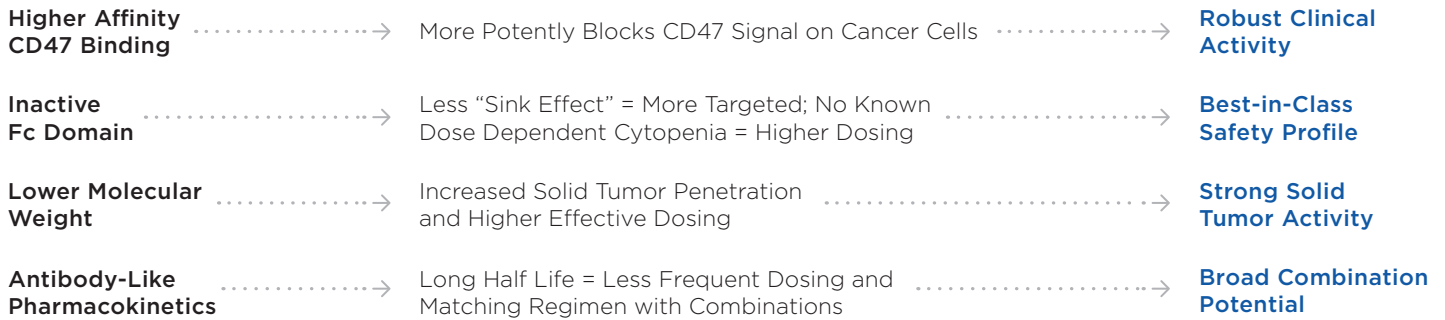
In new indications and combinations

**\$37B** Market Opportunity

Targeting a substantial portion of the oncology drug market.

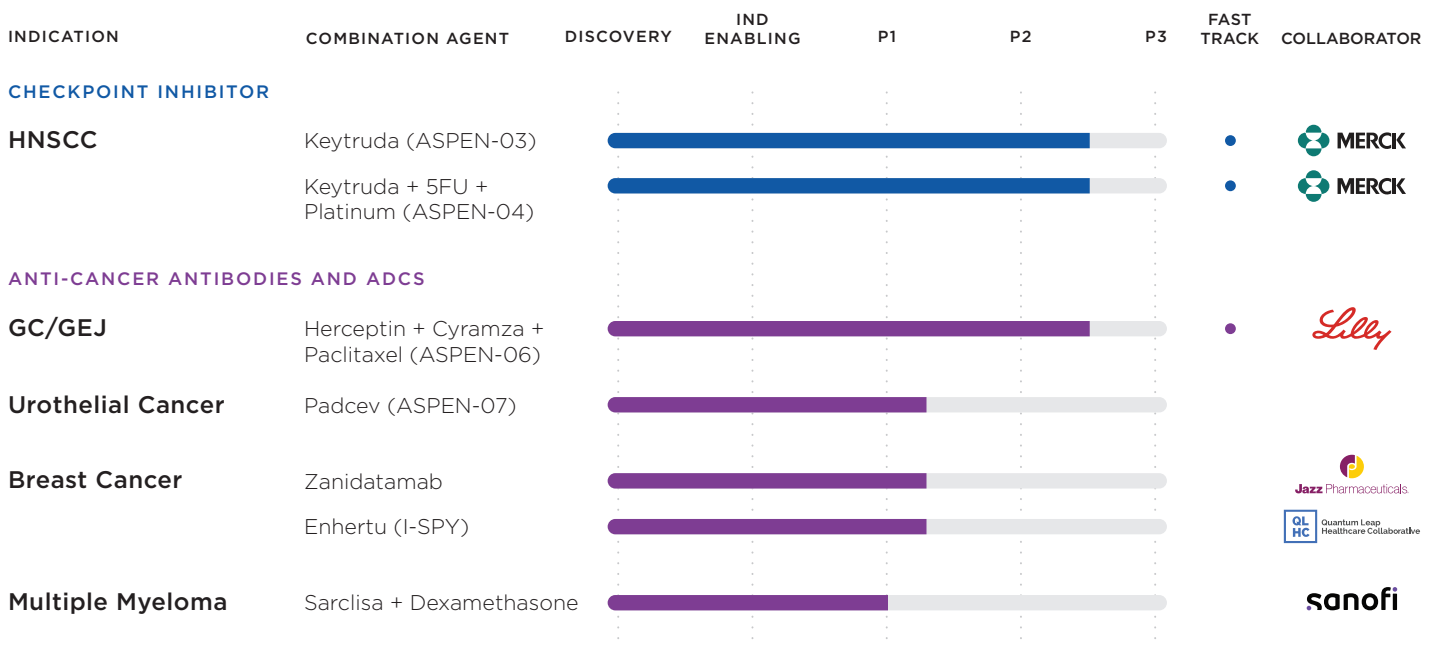
## The CD47 Leader

Evorpaccept's differentiated design results in differentiated safety profile and robust clinical activity



## Pursuing a Robust Pipeline

Evorpaccept combination studies



HNSCC - Head and Neck Squamous Cell Carcinoma; GC/GEJ - Gastric/Gastroesophageal Junction Cancer

April 22, 2024

To Our Shareholders:

It's with pleasure that I present our annual report for 2023, which highlights the remarkable achievements our team accomplished throughout the prior year. As a way of introduction, while I became Chief Executive Officer of ALX Oncology this past September, I've been involved with the Company since its founding in 2015, having co-led the Company's first institutional financing and serving as a member of the Company's Board of Directors since its inception. My long-standing commitment to ALX Oncology is rooted in my conviction in the company's deep scientific foundation which led to the creation of evorpaccept. The drug's unique design represents a highly differentiated CD47 innate immune system checkpoint inhibitor that combines a high-affinity CD47 binding domain with an inactivated, proprietary Fc domain. This scientific rationale was conceived nearly a decade ago to powerfully engage the innate immune response while minimizing hematologic toxicities inherent to other CD47 blocking agents. Evorpaccept has now been dosed in over 500 patients and is the first CD47 inhibitor to demonstrate robust clinical activity and a differentiated safety profile across both solid and liquid tumors. Through the dedicated efforts of our employees and your continued support, we are advancing our bold vision to deliver evorpaccept as a first-in-class, universal combination agent with anti-cancer antibodies, antibody-drug conjugates ("ADCs"), and checkpoint inhibitors to improve treatment options for patients living with cancer. We also are advancing a novel pipeline of several programs that also have the potential to drive significant breakthroughs in oncology.

### **2023 Served as Catalyst for Long-term Growth**

**Positive Results From ASPEN-06 Clinical Trial:** We were delighted to report positive results from the prespecified interim analysis of the global, multi-center, randomized Phase 2 clinical trial (ASPEN-06) of evorpaccept in combination with trastuzumab, CYRAMZA® (ramucirumab) and paclitaxel for the treatment of patients with HER2-positive gastric/gastroesophageal junction ("GEJ") cancer. These results demonstrated evorpaccept's promising potential to be the first-in-class foundational CD47 blocker through its activity in the solid tumor setting while in combination with anti-cancer antibodies. In addition, we received Orphan Drug Designation from the European Commission for the ASPEN-06 regimen.

**Expanded Clinical Trial Portfolio:** During the year, we also commenced patient dosing in ASPEN-07, a Phase 1 clinical trial of evorpaccept in combination with PADCEV® (enfortumab vedotin-ejfv), an ADC, in patients with urothelial cancer. To our knowledge, this study represents the first clinical study to explore a CD47 blocker with an ADC. In addition, evorpaccept is now also being tested in a Phase 2 investigator-sponsored trial ("IST") of evorpaccept in combination with KEYTRUDA® (pembrolizumab) in patients with ovarian cancer at the University of Pittsburgh, further advancing the therapeutic potential of evorpaccept in additional cancer types. We concluded 2023 with nine ongoing combinations advancing in clinical trials addressing multiple oncology indications.

**Increased Strategic Collaborations:** Also in 2023, we established a collaboration with Sanofi to evaluate evorpaccept in combination with SARCLISA® (isatuximab-irfc), a CD38-targeting monoclonal antibody, in patients with multiple myeloma. Of note, the combination of blocking CD47 and CD38 has shown synergistic anti-tumor activity in preclinical studies. Sanofi will conduct this Phase 1/2 clinical trial. Separately, patient dosing began in the I-SPY-PI TRIAL of evorpaccept in combination with ENHERTU® (fam-trastuzumab deruxtecan-nxki), a HER2-directed ADC, in patients with breast cancer. Patients with advanced breast cancer are known to develop resistance to other therapies and a combination between the leading ADC and evorpaccept could represent a promising strategy for this unmet need. These collaborations underscore our dedication to maximize evorpaccept's potential as a novel combinatory therapeutic with anti-cancer antibodies and ADCs as we endeavor to improve patient outcomes.

**Strengthened Balance Sheet:** In October 2023, we executed an oversubscribed, underwritten public equity follow-on offering, generating gross proceeds of approximately \$63.2 million. These proceeds along with our current cash on hand and available term loan provide us with cash runway into early 2026.

## Recent Pipeline Highlights

As we summarize the Company's key achievements over the course of 2023, here is a brief update on some exciting recent developments for our maturing portfolio of clinical stage programs in 2024:

***Non-Hodgkin's lymphoma ("NHL")*** – In April of this year, the lead investigator at MD Anderson reported encouraging clinical data from the ongoing Phase 1/2 IST of evorpaccept in combination with the approved regimen of rituximab and lenalidomide in patients with second-line indolent and aggressive relapsed or refractory B-cell NHL in an oral presentation at the American Association for Cancer Research Annual Meeting. This triplet combination is currently being evaluated in patients with first-line indolent B-cell NHL.

***Urothelial Carcinoma*** – In the second quarter of 2024, we anticipate the release of data from our Phase 1b ASPEN-07 clinical trial with PADCEV. Again, this trial represents the first combination of a CD47 blocker with an ADC in the clinic.

***Gastric/GEJ Cancer*** – In June-July 2024, we expect to announce top line results from the Phase 2 randomized clinical trial of ASPEN-06. These results are expected to build upon the previous datasets demonstrating the potential of evorpaccept-regimens with an anti-cancer antibody in the treatment of gastric/GEJ cancer.

***Breast Cancer*** – Toward the end of 2024, we also anticipate the disclosure of top line results from a Phase 1b I-SPY TRIAL with ENHERTU, further advancing our combination strategy with evorpaccept and ADCs.

***Head and Neck Squamous Cell Carcinoma*** – We recently announced the initiation of a Phase 2 IST that will assess neoadjuvant radiation and evorpaccept in combination with KEYTRUDA in patients with previously untreated and early-stage locally advanced, resectable, human papillomavirus-mediated oropharyngeal cancer. The clinical trial is being conducted by the Hanna and Mark Gleiberman Head and Neck Cancer Center of the University of California, San Diego. As we approach the end of the year, we will begin gearing up to share top line results from two Phase 2 randomized clinical trials: ASPEN-03 with KEYTRUDA and ASPEN-04 with KEYTRUDA and chemotherapy (4Q24 or 1Q25). These trials hold immense promise in expanding treatment options for patients with head and neck squamous cell carcinoma and will provide further insights into the combination of evorpaccept with PD-1/PD-L1 immune checkpoint inhibitors.

## Well Positioned for Growth

The accomplishments of 2023 and the ambitious milestones set for 2024 underscore our unwavering commitment to deliver new therapies to improve the lives of patients with cancer. Our achievements would not be possible without our employees' dedication, hard work, and passion to advance our mission in the fight against cancer as well as the clinical community's strong support of our many studies. Most importantly, I am grateful for the patients and their families involved in our clinical trials. The important work we do would not be possible without their optimism, bravery, and trust in us.

Lastly, on behalf of the Board and management team, I thank our longstanding shareholders for your continued support and confidence in our vision. We are entering a particularly exciting time in ALX Oncology's growth trajectory with major milestones anticipated over the next 12-18 months for multiple clinical programs. I look forward to providing you with updates on our continued progress and thank you again for your support.

Sincerely,



Jason Lettmann  
Chief Executive Officer



**UNITED STATES**  
**SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**  
**FORM 10-K**

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2023

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 FOR THE TRANSITION PERIOD FROM TO

Commission File Number 001-39386

ALX ONCOLOGY HOLDINGS INC.

(Exact name of registrant as specified in its charter)

**Delaware**  
(State or other jurisdiction of  
incorporation or organization)  
**323 Allerton Avenue**  
**South San Francisco, California**  
(Address of principal executive offices)

**85-0642577**  
(I.R.S. Employer  
Identification No.)

**94080**  
(Zip Code)

**Registrant's telephone number, including area code: 650-466-7125**

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, par value \$0.001 per share	ALXO	The Nasdaq Global Select Market

Securities registered pursuant to Section 12(g) of the Act: **None**

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. YES  NO

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or 15(d) of the Act. YES  NO

Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. YES  NO

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). YES  NO

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer	<input type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input checked="" type="checkbox"/>	Smaller reporting company	<input checked="" type="checkbox"/>
Emerging growth company	<input type="checkbox"/>		

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report.

If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an error to previously issued financial statements.

Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant's executive officers during the relevant recovery period pursuant to §240.10D-1(b).

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). YES  NO

The aggregate market value of the registrant's common stock held by non-affiliates of the registrant on June 30, 2023, the last business day of its most recently completed second fiscal quarter, was \$161.4 million based on the closing sales price of the registrant's common stock on that date.

The number of shares of registrant's Common Stock outstanding as of February 29, 2024 was 50,152,082.

DOCUMENTS INCORPORATED BY REFERENCE

Certain portions of the registrant's definitive proxy statement relating to the Company's 2024 Annual Meeting of Stockholders, to be filed with the Securities and Exchange Commission within 120 days of the registrant's fiscal year ended December 31, 2023, are incorporated by reference into Part III of this Annual Report on Form 10-K where indicated.

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## SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This Annual Report on Form 10-K contains forward-looking statements. All statements other than statements of historical facts contained in this report, including statements regarding our future results of operations and financial position, business strategy, product candidates, planned preclinical studies and clinical trials, results of clinical trials, research and development costs, regulatory approvals, timing and likelihood of success, as well as plans and objectives of management for future operations, are forward-looking statements. These statements involve known and unknown risks, uncertainties and other important factors that are in some cases beyond our control and may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements.

In some cases, you can identify forward-looking statements by terms such as “may,” “will,” “should,” “would,” “expect,” “plan,” “anticipate,” “could,” “intend,” “target,” “project,” “believe,” “estimate,” “predict,” “potential,” or “continue” or the negative of these terms or other similar expressions. Forward-looking statements contained in this Annual Report include, but are not limited to, statements about:

- our financial performance;
- the sufficiency of our existing cash to fund our future operating expenses and capital expenditure requirements;
- the accuracy of our estimates regarding expenses, future revenue, capital requirements, and needs for additional financing;
- our plans relating to commercializing our product candidates, if approved, including the geographic areas of focus and our ability to grow a sales team;
- the implementation of our strategic plans for our business and product candidates;
- our ability to obtain and maintain regulatory approval of our product candidates and the timing or likelihood of regulatory filings and approvals, including our expectation to seek special designations, such as orphan drug designation, for our product candidates for various diseases;
- our reliance on third parties to conduct preclinical research activities, and for the manufacture of our product candidates;
- the beneficial characteristics, mechanisms of action, safety profile, efficacy and therapeutic effects of our product candidates;
- the progress and focus of our current and future clinical trials, and the reporting of data from those trials;
- our ability to advance product candidates into and successfully complete clinical trials;
- the ability of our clinical trials, including collaborations and investigator sponsored trials, to demonstrate the safety and efficacy of our product candidates, and other positive results;
- the success of competing therapies that are or may become available;
- developments relating to our competitors and our industry, including competing product candidates and therapies;
- our plans relating to the further development and manufacturing of our product candidates, including additional indications that we may pursue;
- existing regulations and regulatory developments in the United States and other jurisdictions;
- our potential and ability to successfully manufacture and supply our product candidates for clinical trials and for commercial use, if approved;
- our continued reliance on third parties to conduct clinical trials of our product candidates, and for the manufacture of our product candidates;
- our plans and ability to obtain or protect intellectual property rights, including extensions of existing patent terms where available;
- the scope of protection we are able to establish and maintain for intellectual property rights, including our technology platform and product candidates;
- our ability to retain the continued service of our key personnel, the impacts of any executive officer changes, and to identify, hire, and then retain additional qualified personnel;

- the impact of the COVID-19 pandemic, rising interest rates, bank failures or instability in the financial services sector, or geopolitical risks on our business;
- our plans for and prospects of our acquisitions and other business development activities, and our ability to successfully capitalize on these opportunities;
- changes in our financial and internal controls; and
- our anticipated use of our existing cash and cash equivalents, short-term and long-term investments, and the funds available from our term loan.

We have based these forward-looking statements largely on our current expectations and projections about our business, the industry in which we operate and financial trends that we believe may affect our business, financial condition, results of operations and prospects, and these forward-looking statements are not guarantees of future performance or development. These forward-looking statements speak only as of the date of this Annual Report on Form 10-K and are subject to a number of risks, uncertainties and assumptions described in the section titled “Risk Factors” and elsewhere in this Annual Report on Form 10-K. Because forward-looking statements are inherently subject to risks and uncertainties, some of which cannot be predicted or quantified, you should not rely on these forward-looking statements as predictions of future events. The events and circumstances reflected in our forward-looking statements may not be achieved or occur and actual results could differ materially from those projected in the forward-looking statements. Except as required by applicable law, we do not plan to publicly update or revise any forward-looking statements contained herein, whether as a result of any new information, future events or otherwise.

In addition, statements that “we believe” and similar statements reflect our beliefs and opinions on the relevant subject. These statements are based upon information available to us as of the date of this Annual Report, and while we believe such information forms a reasonable basis for such statements, such information may be limited or incomplete, and our statements should not be read to indicate that we have conducted an exhaustive inquiry into, or review of, all potentially available relevant information. These statements are inherently uncertain, and you are cautioned not to unduly rely upon these statements.



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## PART I

### Item 1. Business.

#### BUSINESS

##### Overview

We are a clinical-stage immuno-oncology company focused on helping patients fight cancer by developing therapies that block the CD47 immune checkpoint and bridge the innate and adaptive immune system. Our lead product candidate, the CD47 blocker evorpaccept, is currently in multiple Phase 1 and 2 clinical trials. Cancer cells leverage CD47, a cell surface protein, as a “don’t eat me” signal to evade macrophage phagocytosis or as a “don’t activate T-cells” signal that prevents activation of T-cells by dendritic cells. We are developing evorpaccept to be a next-generation checkpoint inhibitor designed to have a high affinity for CD47 and to avoid the limitations caused by hematologic toxicities inherent in other CD47 blocking approaches.

Anti-cancer agents, including many chemotherapies, other small molecules and anti-cancer antibodies, can stimulate immune cells such as macrophages to engulf and kill cancer cells, a process known as phagocytosis, by providing so-called “eat me” signals on cancer cells. In response, cancer cells frequently overexpress CD47 to counteract these “eat me” signals. As a result, high expression of CD47 on cancer cells has been associated with reduced patient survival in multiple cancers. The therapeutic blockade of CD47 in combination with an “eat me” signal enables the immune system to detect and phagocytose cancer cells. However, healthy blood cells and nearly all other cells in the body also express CD47 as a way to protect against pathologic phagocytosis by immune cells. There have been a number of approaches to blocking CD47, including monoclonal antibodies and fusion proteins that include an active Fc region. These approaches have encountered limitations, including limited dosing and therapeutic window, limited ability to combine with other anti-cancer agents, limited efficacy in solid tumors and limited indications due to patient selection, that have challenged their ability to maximize the full potential of CD47 blockade. In addition, most of these therapeutic approaches to CD47 blockade have resulted in the destruction of patients’ healthy blood cells, causing cytopenias that limit the dosing and therapeutic potential of those molecules.

ALX Oncology was founded to address fundamental challenges in blocking CD47 and to realize the full potential of this therapeutic target. Clinical data on competing CD47 blockers to date have come from molecules that incorporate an active antibody Fc region in addition to a CD47 blocking region. The Fc region provides a positive, pro-phagocytic “eat me” signal to macrophages and other cells of the immune system. Since healthy blood cells also express CD47, these competing therapeutic approaches can cause a reduction in the number of blood cells in the body, resulting in anemia, thrombocytopenia and neutropenia, which can be dangerous to patients and may limit the ability to combine these agents with other anti-cancer medicines.

Evorpaccept is a next-generation CD47 blocking therapeutic that we believe has significantly enhanced properties compared to competing CD47 blocking approaches. Evorpaccept is a fusion protein that combines a high-affinity CD47 binding domain with a proprietary inactivated Fc domain. The CD47 binding domain of evorpaccept is an affinity enhanced extracellular domain of SIRP $\alpha$ , a protein that is the natural receptor to CD47 found on myeloid cells. We have engineered the Fc domain of evorpaccept so that it does not provide a pro-phagocytic signal while still maintaining an antibody-like half-life for the molecule. We believe our inactive Fc approach improves tolerability when compared to other CD47 blocking approaches that have an Fc domain that engages activating receptors on macrophages, causing phagocytosis and death of healthy cells in addition to cancer cells.

Evorpaccept’s design has several advantages that we believe will make it broadly applicable to treating a number of oncology indications. Due to the inactive Fc, evorpaccept is specifically designed for use in combination with other anti-cancer agents that provide a positive immune-stimulating signal. We believe evorpaccept has a favorable tolerability profile that may enable higher dosing levels and greater combination potential with other leading anti-cancer agents. Additionally, the molecular weight of evorpaccept is half that of a typical antibody, therefore allowing for higher dosing (10mg/kg of evorpaccept is equivalent to 20 mg/kg of a regular antibody). The relatively smaller size of our molecule may facilitate increased penetrance into the tumor microenvironment. We believe these properties may enable evorpaccept to provide superior therapeutic benefits.

Clinical data to date in evorpaccept have not shown the dose-dependent hematologic toxicities characteristic of other CD47 blockers that incorporate an active Fc domain. Over 500 subjects have been treated with evorpaccept in combination with targeted anti-cancer agents, small molecules, and checkpoint inhibitors to date. Evorpaccept has not reached a maximum tolerated dose in any of the combinations evaluated to date.

We are focused on evorpaccept development with the standard-of-care agents, revolving around these two cell types: macrophages and dendritic cells. We initially pursued, and continue to pursue, development of evorpaccept based on two well-validated mechanisms of action involving SIRP alpha expression on macrophages and dendritic cells as discussed below. In April 2020, we began exploring a third less well-validated mechanism of action, which led us to test the combination of evorpaccept with azacitidine in myelodysplastic syndromes (MDS) patients, but our data failed to validate this third mechanism as discussed below.

The distinct mechanism of actions and examples of the combinations of priority are:

(1) **Anti-cancer antibodies (the “don’t eat me” signal): Combining with anti-cancer targeted antibodies with an active Fc domain, where evorpaccept enables the Fc-mediated antibody dependent phagocytosis that is impaired by the expression of CD47 on cancer cells.**

The positive interim data in our randomized ASPEN-06 clinical trial supports the clinical validation of this mechanism of action. ASPEN-06 evaluates the contribution of evorpaccept to HERCEPTIN® (trastuzumab) plus standard of care (CYRAMZA® (ramucirumab) + paclitaxel) versus standard of care plus HERCEPTIN in second line or later HER2-positive gastric/gastroesophageal junction (GEJ) cancer.

- o Demonstrated evorpaccept + trastuzumab + ramucirumab + paclitaxel improved response activity (52% overall response rate (ORR), median duration of response (mDOR) not reached) compared to that of the trastuzumab + ramucirumab + paclitaxel backbone (22% ORR, mDOR 7.4 m).
- o Clinical activity of evorpaccept + trastuzumab + ramucirumab + paclitaxel compares favorably to the RAINBOW historical data where ramucirumab + paclitaxel demonstrated a 28% confirmed ORR and 4.4 month mDOR, as well as to DESTINY-Gastric01 where ENHERTU® (fam-trastuzumab deruxtecan-nxki) reported a 41% confirmed ORR and mDOR of 11.3 months.
- o Initial magnitude of improvement in ORR over available therapy and over the concurrent control arm with this well-tolerated combination suggests that evorpaccept in combination with trastuzumab, ramucirumab, and paclitaxel could benefit patients with HER2-overexpressing advanced gastric/GEJ cancer.

Our earlier ASPEN-01 Phase 1 positive data in combination with rituximab in non-Hodgkin lymphoma (NHL) provide additional support for the clinical validation of this mechanism of action and support exploring combinations of evorpaccept with other anti-cancer antibodies.

This mechanism of action may also apply to antibody-drug conjugates (ADCs), which are being investigated in two separate Phase 1 trials: one in combination with PADCEV® (enfortumab vedotin-ejfv) in patients with urothelial cancer (ASPEN-07), and the other in combination with fam-trastuzumab deruxtecan-nxki in patients with unresectable or metastatic HER2-positive and HER2-low breast cancer.

(2) **PD-1/PD-L1 immune checkpoint inhibitors (the “don’t activate T-cells” signal): Combining with PD-1/PD-L1 checkpoint inhibitor, where evorpaccept activates dendritic cells that are constitutively inhibited by the CD47/ SIRP alpha pathway.**

Activated dendritic cells present neoantigens to T-cells that, once activated, will kill cancer cells when the PD-1/PD-L1 inhibitory interaction is blocked by T-cell checkpoint inhibitors. The combination with a PD-1/PD-L1 checkpoint inhibitor allows maximum activity of these newly activated T-cells. This mechanism of action includes our clinical trials, ASPEN-03 and ASPEN-04, two randomized Phase 2 studies in combination with KEYTRUDA® (pembrolizumab), without or with chemotherapy, respectively, comparing to the same treatments without evorpaccept, in first line head and neck squamous cell carcinoma (HNSCC). Validation of this mechanism is supported by our Phase 1 data (N=23) in the same indications and combinations where we saw an improvement in overall survival (OS) at 12 months with respect to historical data.

(3) **Hypomethylation agents: Combining with azacitidine, which is described to upregulate calreticulin and potentially promote macrophage dependent phagocytosis that is inhibited by CD47. We now consider this a failed mechanistic hypothesis.**

This mechanistic hypothesis was tested and ultimately not supported in our clinical trial, ASPEN-02, a Phase 1b dose optimization study evaluating evorpaccept in combination with azacitidine for the treatment of MDS. Initial support for exploring this mechanism was provided by Phase 1b initial clinical data of magrolimab, an anti CD47 antibody with active Fc, being developed by Gilead, which showed improvements in complete response (CR) rate compared to historical data in addition to a significant increase in cytopenias. As we reported in August 2023, in our preliminary data review of our Phase 1 study, ASPEN-02, despite being well tolerated, evorpaccept did not yield sufficient activity to support progression to Phase 2 trials. Gilead has since discontinued its Phase 3 magrolimab trials with this combination in both acute myeloid leukemia (AML) and MDS due to lack of efficacy. Based upon trial results, we are no longer planning to pursue combinations based upon this mechanism of action. Resources originally earmarked for these trials will be allocated to support our ongoing programs evaluating combinations with anti-cancer antibodies and PD-1/PD-L1 immune checkpoint inhibitors.

We are pursuing the following clinical programs, collaborations, and investigator sponsored trials:

### ***Evorpacept***

#### *Combination with anti-cancer antibody*

- ASPEN-06 - Gastric/GEJ Cancer
  - In January 2020, the FDA granted Fast Track designation for evorpacept in combination with trastuzumab, ramucirumab and paclitaxel for the treatment of patients with HER2-overexpressing advanced gastric or GEJ adenocarcinoma with disease progression on or after prior trastuzumab and fluoropyrimidine or platinum containing chemotherapy.
  - In January 2022, the FDA's Office of Orphan Products Development granted Orphan Drug Designation (ODD) to evorpacept for the treatment of patients with gastric/GEJ cancer.
  - In March 2022, we announced the dosing of the first patient in the ASPEN-06 trial, a randomized Phase 2/3 trial of evorpacept in combination with trastuzumab, ramucirumab and paclitaxel for the treatment of second- and third-line advanced HER2-overexpressing gastric/GEJ cancer.
  - In June 2023, the European Commission granted ODD to evorpacept for the treatment of patients with gastric/GEJ cancer.
  - In October 2023, we announced positive prespecified interim Phase 2 clinical data from our ASPEN-06 clinical trial. This prespecified interim analysis reported results from 54 randomized patients with second and third line gastric/GEJ cancer, including patients previously treated with fam-trastuzumab deruxtecan-nxki and checkpoint inhibitors. A confirmed overall response rate (ORR) of 52% was demonstrated for evorpacept in combination with trastuzumab + ramucirumab + paclitaxel compared to 22% for the control group of trastuzumab + ramucirumab + paclitaxel. Median duration of response (mDOR) was not reached for the evorpacept combination treatment arm compared to 7.4 months for the control group. The safety profile of evorpacept was consistent with previous clinical trials and was well-tolerated.

#### *Combination with antibody drug conjugate (ADC)*

- ASPEN-07 - Urothelial Cancer (UC)
  - In February 2023, we announced the dosing of the first patient in the ASPEN-07 trial, a Phase 1 study evaluating evorpacept in combination with an ADC, enfortumab vedotin-ejfv, for the second-line treatment of locally advanced or metastatic UC.

#### *Combination with PD-1/PD-L1 immune checkpoint inhibitor*

- ASPEN-03 - Head and Neck Squamous Cell Carcinoma
  - In May 2021, we announced the dosing of the first patient in the ASPEN-03 trial, a randomized Phase 2 trial of evorpacept in combination with pembrolizumab for the treatment of first-line advanced PD-L1 positive HNSCC.
  - In July 2022, the Food and Drug Administration (FDA) granted Fast Track designation for evorpacept in combination with pembrolizumab for first-line treatment of adult patients with metastatic or unresectable, recurrent HNSCC whose tumors express PD-L1.
- ASPEN-04 - Head and Neck Squamous Cell Carcinoma
  - In February 2020, the FDA granted Fast Track designation for evorpacept in combination with pembrolizumab, platinum, and fluorouracil for the first-line treatment of adult patients with metastatic or unresectable, recurrent HNSCC.
  - In July 2021, we announced the dosing of the first patient in the ASPEN-04 trial, a randomized Phase 2 trial of evorpacept in combination with pembrolizumab, platinum, and fluorouracil for the treatment of first-line advanced HNSCC.

### ***Collaborations and Investigator-Sponsored Trials (ISTs)***

#### *Combination with anti-cancer antibody*

- Jazz Pharmaceuticals plc - Breast Cancer
  - Our collaborator, Jazz Pharmaceuticals plc (Jazz), is sponsoring and managing an ongoing Phase 1 trial of zanidatamab for the treatment of advanced HER2-expressing breast cancer and other solid tumors in combination with evorpacept (Zanidatamab Trial). We announced the dosing of the first patient in this trial in October 2021.
  - Our initial collaborator for the Zanidatamab Trial was Zymeworks Inc. (Zymeworks), however in a series of transactions commencing in October 2022, Jazz assumed responsibility from Zymeworks for the development and



commercialization of zanidatamab in the United States, Europe, Japan and certain other territories, including responsibility for the Zanidatamab Trial.

- Quantum Leap Healthcare Collaborative - I-SPY Trial - Breast Cancer
  - Our collaborator, Quantum Leap Healthcare Collaborative (Quantum Leap), is sponsoring and managing an ongoing Phase 1 trial (I-SPY) to evaluate evorpaccept in combination with an ADC, fam-trastuzumab deruxtecan-nxki, for the treatment of patients with unresectable or metastatic HER2-positive and HER2-low breast cancer. We announced the dosing of the first patient in March 2023.
- MD Anderson Cancer Center - Non-Hodgkin Lymphoma
  - In 2021, an IST of evorpaccept was initiated in combination with rituximab and lenalidomide for the treatment of patients with indolent and aggressive NHL, sponsored by MD Anderson Cancer Center in Texas. We announced the dosing of the first patient in September 2021.
- Sanofi - Multiple Myeloma
  - In April 2023, we announced a collaboration with Sanofi who will sponsor and manage a Phase 1/2 trial of isatuximab and dexamethasone in combination with evorpaccept for the treatment of patients with relapsed or refractory multiple myeloma.

*Combination with anti-cancer antibody and PD-1/PD-L1 immune checkpoint inhibitor*

- Academic Gastrointestinal Cancer Consortium - Colorectal Cancer
  - In 2022, a Phase 2 IST of evorpaccept was initiated in combination with pembrolizumab and cetuximab in patients with refractory microsatellite stable metastatic colorectal cancer, sponsored by the Academic Gastrointestinal Cancer Consortium (AGICC) in New York. We announced the dosing of the first patient in August 2022.

*Combination with PD-1/PD-L1 immune checkpoint inhibitor*

- University of Pittsburgh - Ovarian Cancer
  - In 2023, a Phase 2 IST of evorpaccept was initiated in combination with liposomal doxorubicin and pembrolizumab in patients with recurrent platinum-resistant ovarian cancer, sponsored by the University of Pittsburgh in Pennsylvania. We announced the dosing of the first patient in May 2023.

***Pre-clinical Programs***

- Tallac Therapeutics - ALTA-002
  - Our second program, ALTA-002, is a collaboration between us and Tallac Therapeutics, Inc. (Tallac) that combines our company's SIRP $\alpha$  antibody with Tallac's toll-like receptor 9 (TLR9) agonist, resulting in a potent immune activator targeted to myeloid cells in the tumor to promote innate and adaptive anti-cancer immune responses. This novel Toll-like receptor agonist antibody conjugation platform (TRAAC) enables systemic delivery of targeted TLR9 activation.

Based on our clinical results to date in multiple oncology indications that show encouraging anti-tumor activity and tolerability and our clinical development plans, our strategy is to pursue evorpaccept as a potentially critical component of future oncology combination treatments.

Additionally, with our acquisition of ScalmiBio, Inc. (ScalmiBio) in October 2021, we are developing ADC drug candidates based on our expertise in protein engineering and oncology.

Our team of industry veterans plans to continue to advance a broad development plan for evorpaccept that balances speed to market, scale of unmet need and existing clinical evidence for evorpaccept's combination mechanisms. Members of our management team have brought multiple drugs to the FDA approval. Our Chief Executive Officer, Jason Lettmann, brings a broad suite of expertise as an institutional healthcare investor, most recently at Lightstone Ventures, and has been involved with ALX Oncology for nearly a decade since its founding, having co-led the Company's first institutional financing and serving as a member of the Company's Board of Directors. He also previously served as Chief Executive Officer of Promedior, Inc. During his tenure, Promedior was acquired by Roche in 2020 for up to \$1.39 billion. Our President, Chief Scientific Officer and founder, Jaume Pons, Ph.D., was Chief Science Officer of Rinat (a subsidiary of Pfizer), invented fremanezumab (FDA approved in 2018), tanezumab (Biologics License Application, or BLA, filed in 2020) and additional antibodies in late-stage development at Pfizer and advanced nine more drugs into human trials. Our Chief Medical Officer, Sophia Randolph, M.D., Ph.D., was the global clinical franchise lead for IBRANCE® at Pfizer, where she oversaw the program from first-in-human trials to initial global regulatory approval. Our Executive Chairman and founder, Corey Goodman, Ph.D., an elected member of the National Academy of Sciences, has co-founded seven biopharmaceutical companies, including Exelixis and Labrys (acquired by Teva Pharmaceuticals in 2014), and led Pfizer's Biotherapeutics and Bioinnovation Center. Our Chief Financial Officer, Peter Garcia, has over 25 years of experience guiding public and private life science companies and has raised over \$2.0 billion in debt and equity offerings. We have funded our operations to date primarily through the issuance and sale of our convertible preferred stock, the issuance and sale of our common stock through an initial public offering in July 2020 and a follow-on public offering in December 2020, a term loan facility in October 2022, and a follow-on public offering in October 2023.

## Our Strategy

Our goal is to transform treatment options for patients with cancer by developing evorpaccept as a foundational checkpoint immunotherapy.

Key elements of our strategy to support this goal include:






- **Expanding the therapeutic potential of CD47 blockade by combining with anti-cancer antibodies and ADCs.** We believe evorpaccept can overcome the limitations of other CD47 blocking approaches.
- **Expanding the therapeutic potential of CD47 blockade by combining with PD-1/PD-L1 immune checkpoint inhibitors.** Based on encouraging early Phase 1 clinical data in our ASPEN-01 study in subjects with advanced HNSCC treated with evorpaccept in combination with a PD-1 checkpoint inhibitor with and without chemotherapy, we are conducting two randomized Phase 2 trials (ASPEN-03 and ASPEN-04) of evorpaccept for the treatment of first-line advanced HNSCC.
- **Continuing development of a pipeline of innovative therapeutics based on our protein engineering expertise and knowledge of the immune system and cancer biology.** We are developing a pipeline of immuno-oncology programs that represent complementary, but differentiated, approaches to engaging the innate and adaptive immune systems.
- **Continuing to develop strategic partnerships to broaden the potential impact of our current and future product candidates across patient populations.** In order to advance treatment options for the most patients, we have in the past and may in the future partner with other companies with complementary resources that will maximize the value of our current and future product candidates. Such partnerships may allow us to pair evorpaccept and any future product candidates with other novel agents owned fully or in part by strategic partners. Partnerships may and will also help realize the full potential of our product candidates in markets where we are unlikely to pursue development or commercialization on our own. We intend to maintain significant economic interests in our product candidates and selectively consider partnership opportunities.

## Pipeline

Our initial programs are focused on targeting CD47 across various oncology indications. Many forms of cancer use CD47 expression as a means of evading immune response. We are targeting solid tumor and hematologic malignancies indications where we believe we have the greatest potential to address unmet medical needs.

The chart below summarizes the development status of our product candidate pipeline.

## Pursuing a robust development plan

Indication	Evorpacept Combination Agent	Discovery	IND Enabling	Phase 1	Phase 2	Phase 3	Fast Track	Supply/ Collaboration Partner	
<b>Evorpacept Combination Studies</b> <b>ANTI-CANCER ANTIBODIES AND ADCs</b>	<b>GC</b> Gastric/Gastroesophageal Junction Cancer	Herceptin + Cyramza + Paclitaxel (ASPEN-06)					✓	<i>Lilly</i>	
	<b>Urothelial Cancer</b>	Padcev (ASPEN-07)							
	<b>Breast Cancer</b>	Zanidatamab							
		Enhertu (I-SPY)							
	<b>MM</b> Multiple Myeloma	Sarclisa + Dexamethasone							<b>sanofi</b>
<b>CHECKPOINT INHIBITORS</b>	<b>HNSCC</b> Head And Neck Squamous Cell Carcinoma	Keytruda (ASPEN-03)					✓		
		Keytruda + 5FU + Platinum (ASPEN-04)					✓		
<b>ALTA-002*</b>	<b>Advanced cancer</b>								

\*SIRPα Toll-like receptor agonist antibody conjugated (TRAAC)

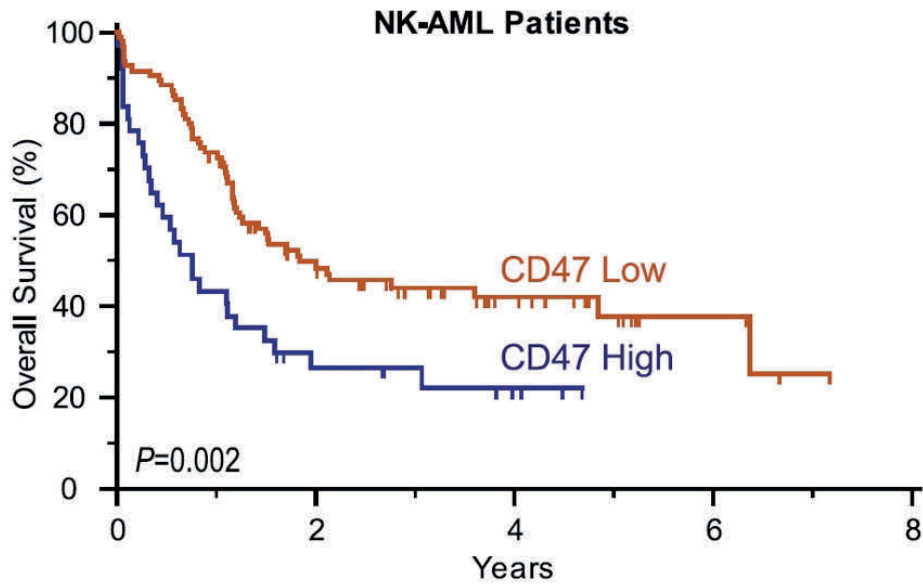
We also have a preclinical program focused on developing ALTA-002, a SIRPα TRAAC that may offer additional ways to engage the innate and adaptive immune response to cancer. An IND for ALTA-002 is planned for the first quarter of 2024.

## CD47 Scientific Background

Cancer immunotherapies targeting adaptive immune system checkpoints, notably those related to T cells, have transformed the standard of care in oncology across multiple cancer types. Initial clinical successes in this area have focused on stimulating the adaptive immune system. However, emerging evidence demonstrates that the innate immune system plays a crucial role in the first line of defense to eliminate transformed malignant cells and the subsequent activation of the adaptive immune system. Dendritic cells and macrophages are a type of myeloid cell and are important parts of the innate immune system. These cells eliminate cancer cells by phagocytosis and present tumor-derived antigens to T cells, a process known as cross-priming, which activates the adaptive immune system.

Cancer cells evade phagocytosis by up-regulating CD47, a transmembrane protein that mainly functions as an anti-phagocytic “don’t eat me” signal for healthy cells. CD47 interacts with its cognate receptor SIRPα, a regulatory membrane glycoprotein, that is expressed on macrophages and other myeloid cells and serves to prevent phagocytosis when bound to CD47. By overexpressing CD47, cancer cells are able to avoid phagocytosis by macrophages and thereby evade subsequent detection by the adaptive immune system.

High CD47 expression in cancer cells has been shown to be a prognostic indicator of decreased survival in multiple oncology indications. A study published by Majeti, et al. in 2009, assessed this association in a validation cohort of 137 subjects with AML. As shown in the figure below, normal karyotype AML, or NK-AML, subjects with high levels of CD47 expression had shorter median overall survival, or mOS, of 9.1 months compared to subjects with low levels of CD47 expression who had an mOS of 22.1 months.

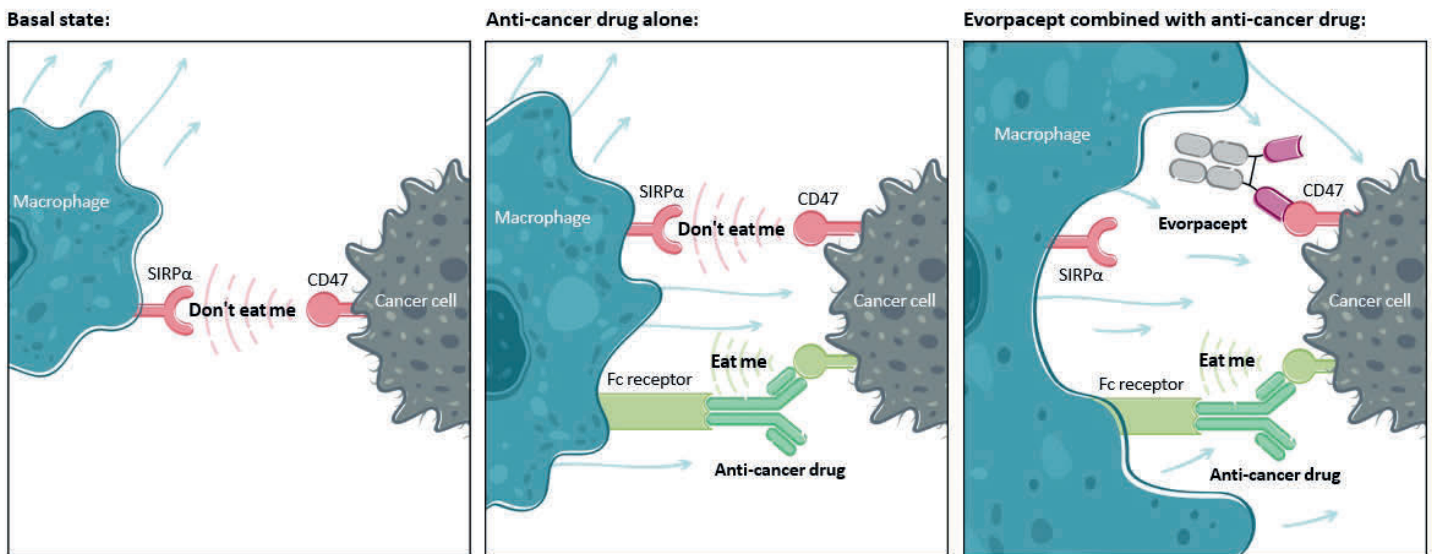


**CD47 as a therapeutic checkpoint target**

Data generated by our and other studies in the field have demonstrated that activating the immune system against cancer requires both blocking phagocytosis checkpoints and inducing pro-phagocytic signals. This can be achieved by combining CD47 blockade with either conventional chemotherapies or targeted therapies, which together promote phagocytosis by macrophages and maximize adaptive immune system response.

Existing anti-cancer therapeutics can increase “eat me” signals on cancer cells. Therapeutic antibodies that target tumor-specific antigens, such as the HER2 receptor, also induce cellular phagocytosis. These antibodies direct macrophages to cancer cells by binding to the tumor-specific antigen and activating the macrophage by engaging the Fcγ receptors to induce phagocytosis. However, if CD47 is not blocked, the “don’t eat me” signal can limit the activity of this mechanism. CD47 blocking therapies can therefore maximize a combination agent’s clinical efficacy by overcoming the “don’t eat me” signal that is co-opted by cancer cells.

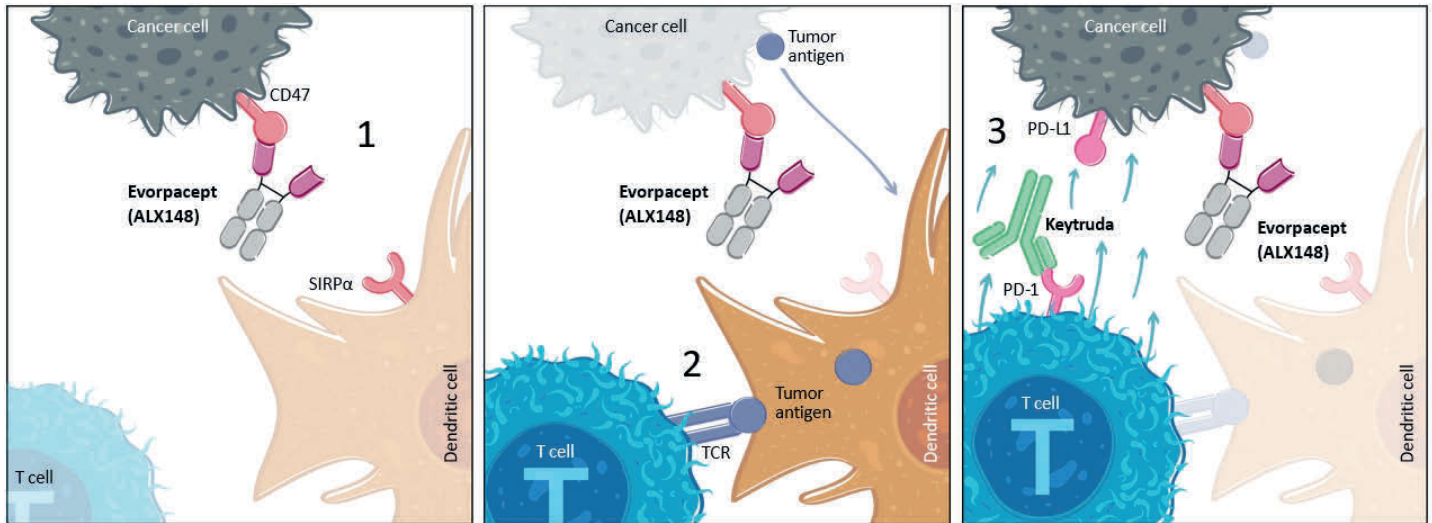
*Our lead product candidate, evorpacept, targets CD47 to maximize phagocytosis of cancer cells and activation of the adaptive immune system.*





Cancer cells can also modulate their environment to suppress detection by immune cells. Overexpression of CD47 helps cancer cells avoid innate immune system detection by dendritic cells and subsequent antigen presentation to T cells, thereby limiting anti-tumor immune response. PD-1/PD-L1 targeting immunotherapies are designed to reduce the suppression of T cells but do not address the initial evasion of the innate immune system by cancer cells. By removing the suppression of dendritic cells, CD47 blocking therapies in combination with PD-1/PD-L1 targeted therapies can complement their T cell stimulatory activities.

*Evorpacept, also activates dendritic cells and enhances the cross-priming of T cells.*



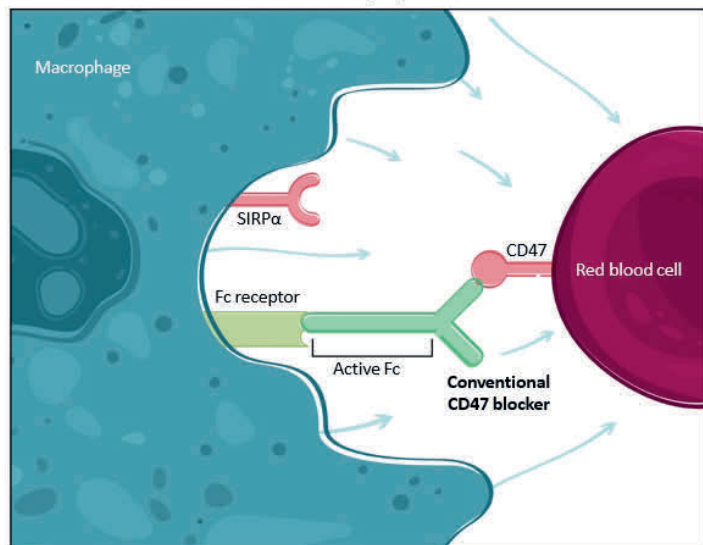
### Limitations of Current Approaches to Blocking CD47

There have been a number of approaches to blocking CD47, including monoclonal antibodies and fusion proteins that include an active Fc region. These approaches have encountered limitations that have challenged their ability to maximize the full potential of CD47 blockade. These include:

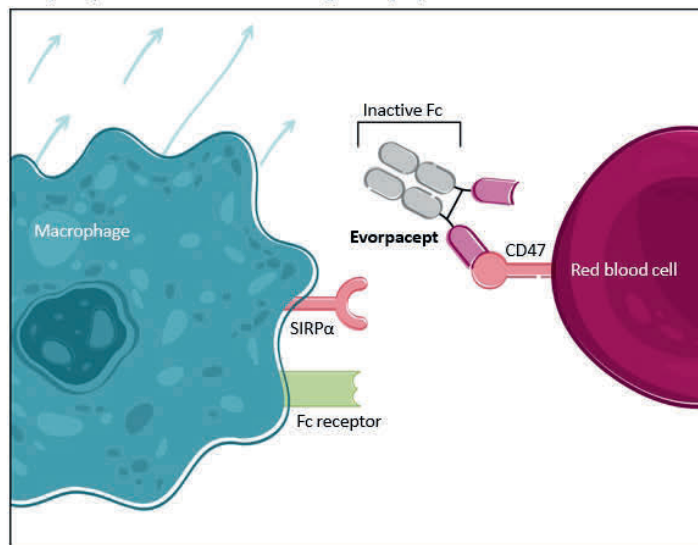
- **Limited dosing and therapeutic window:** The majority of clinical data to date from other CD47 blocking agents have come from approaches that incorporate an active Fc region that provides an “eat me” signal to macrophages. Given that healthy blood cells express CD47, the presence of an “eat me” signal coupled with CD47 binding in a single-agent leads to destruction of blood cells. This mechanism is illustrated in the figure below. The trials of these other CD47 blocking agents have resulted in frequent occurrence of treatment-related cytopenias that we believe limits the therapeutic window of these agents. In addition to limiting the dosing, cytopenias can be dangerous for patients undergoing treatment for cancer as they may already have a compromised immune system related to intensive treatment regimens and disease progression.
- **Limited ability to combine with other anti-cancer agents:** Combination therapies continue to play an important role in treating patients with cancer. Overlapping toxicities of these agents dictate which agents can and cannot be combined. The overlapping toxicity profiles of other CD47 blocking agents and most other anti-cancer agents create challenges for combination dosing. When combination dosing is possible, the therapeutic benefit of the combination is limited due to the minimal amount of the CD47 blocking agent that can be safely dosed. Moreover, many combinations are precluded entirely due to overlapping toxicity. In addition, an active Fc domain can compete with anti-cancer antibodies when used in combination treatments and can prevent such antibodies from binding with Fcγ receptors on immune cells.
- **Limited efficacy in solid tumors:** To date, other CD47 blocking agents have failed to achieve meaningful clinical activity in the treatment of solid tumors, as the balance between managing cytopenias and maximizing efficacy may lead to tolerable doses that are too low to facilitate tumor penetration and efficacy.
- **Limited indications due to patient selection:** Toxicities associated with other CD47 blocking agents may require careful patient selection when evaluating potential indications. In some cases, only subjects with lower risk of hematologic complications have been selected for treatment for other CD47 blocking agents due to drug related risk of severe cytopenias. Sponsors have chosen to initially develop these investigational medicines in indications such as MDS, where patients are often already cytopenic upon presentation and receive regular transfusions, potentially obscuring the side effects of their CD47 blocking approaches.



**CD47 blockers with an active Fc result in cytopenias:**



**Evorpacept with an inactive Fc mitigates cytopenias:**



### Advantages of ALX's Approach to Blocking CD47

We founded ALX Oncology because we believed the limitations described above would prevent CD47 blockade from reaching its full potential as a therapy for patients with cancer. From our inception, we designed evorpacept to overcome these limitations and to maximize the utility of CD47 blockade as an effective anti-cancer therapeutic for a broad range of tumors. Specifically, we believe evorpacept may provide the following significant advantages:

- **Broader therapeutic window:** We believe evorpacept's broader therapeutic window will allow for greater drug exposure than other CD47 blocking agents potentially translating into improved efficacy across a range of cancers compared to other CD47 blocking agents. Furthermore, flexibility in dosing has allowed for several administration schedules (weekly, bi-weekly, every three weeks, monthly) that are more amenable to combination therapy dosing schedules.
- **Strong potential for combination with other anti-cancer agents:** CD47 blocking agents are combined with other therapeutics in order to maximize their potential in treating patients with cancer. Unlike other CD47 blocking agents, evorpacept was specifically designed to be combined with other anti-cancer agents. We believe evorpacept's favorable toxicity profile will enable it to be combined with a wider range of anti-cancer agents, including chemotherapy and cytotoxic containing regimens, compared to other CD47 blocking agents. Furthermore, we believe that evorpacept's inactive Fc domain will neither compete with nor potentially limit the efficacy of anti-cancer antibodies when used in combination treatments.
- **Encouraging responses in solid tumors:** Evorpacept has demonstrated encouraging first-in-human (FIH) Phase 1b and Phase 2 clinical data in the treatment of solid tumors. While other CD47 blocking agents have failed to demonstrate meaningful clinical activity in solid tumors, evorpacept's differentiated properties may underlie its encouraging results. Based on the data generated with evorpacept in combination with anti-cancer antibodies and checkpoint inhibitors with and without chemotherapy, our strategy is to pursue evorpacept as a potentially important component for future combination treatment of solid tumors.
- **Broader potential indications:** We believe evorpacept's tolerability profile will allow for broad treatment of patient populations in a wide range of oncology indications. Toxicities such as cytopenias associated with other CD47 blocking agents may potentially constrain their development strategies. We believe evorpacept is well positioned to expand the therapeutic potential of CD47 blockade across a broad spectrum of hematologic and solid tumor indications.

### Evorpacept

Our lead product candidate, evorpacept, is a CD47 blocking biologic in development as a combination therapy with other anti-cancer agents for treatment of various oncology indications, including HNSCC, gastric/GEJ, breast cancer, urothelial cancer, multiple myeloma, and NHL. We engineered evorpacept to maximize CD47 blockade and to avoid hematologic toxicities. We believe evorpacept enhances the efficacy of both anti-cancer targeted antibodies, numerous small molecule drugs and T cell checkpoint inhibitors and exhibits no dose-dependent cytopenias. Evorpacept has demonstrated encouraging clinical responses in combination with multiple anti-cancer regimens for both hematologic and solid malignancies.

Other companies have pursued CD47 blocking approaches that prioritize single-agent activity, albeit with limited success in efficacy and significant toxicity. Rather than designing a molecule for monotherapy activity that has been associated with cytopenias, we designed evorpaccept for use in combination with anti-cancer agents. Our product candidate exclusively blocks the “don’t eat me” pathway. A combination anti-cancer agent provides a specific pro-phagocytic signal on cancer cells. This approach may both increase the specificity to cancer cells and avoid dose-dependent destruction of healthy blood cells.

### ***Fusion Protein Design***

Evorpaccept is a fusion protein designed to provide a high CD47 blocking potency while potentially eliminating any associated toxicities. Our fusion protein comprises an engineered CD47-binding domain of SIRP $\alpha$  that has been genetically linked to a modified human immunoglobulin-derived Fc domain that does not bind to Fc $\gamma$  receptors. We engineered evorpaccept in two important ways:

- We mutated the binding domain to optimize CD47 affinity. Evorpaccept binding domain demonstrates an affinity that is over 3,000 times stronger than wildtype SIRP $\alpha$ .
- We fused the CD47-binding region of SIRP $\alpha$  to an inactive Fc domain. Incorporating an inactive Fc domain was intended to eliminate single-agent activation of macrophages while still maintaining an antibody-like pharmacokinetic, or PK, profile.

The successful design of evorpaccept required in-house generation of approximately 280 different protein constructs to thoroughly evaluate and optimize the impact of differing designs on multiple important evaluation criteria.

In order to optimize evorpaccept’s properties we conducted the following processes:

Design of the high-affinity CD47 binding domain:

- Optimization of binding affinity for human CD47;
- Optimization of cross-reactivity to rodent and monkey CD47 to enable key translational experiments; and
- Elimination of partially glycosylated sites in SIRP $\alpha$  to remove heterogeneity and enable consistent manufacturing.

Design of the optimal fusion combination for PK extension:

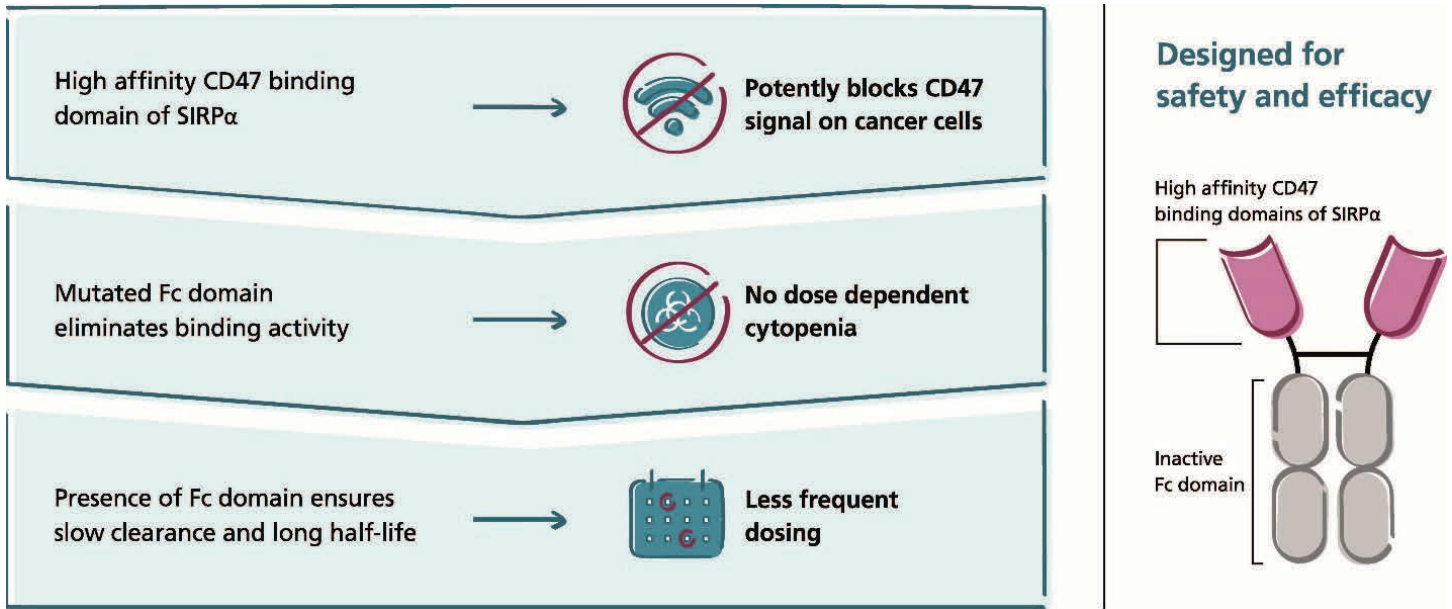
- Selection of an immunoglobulin isotype to prevent hemagglutination; and
- Selection of mutations to immunoglobulin G1, or IgG1, to functionally eliminate Fc $\gamma$  binding and avoid associated cytopenias while maintaining neonatal Fc receptor binding that enables antibody-like PK.

As illustrated in the figure below, evorpaccept comprises:

- A SIRP $\alpha$  binding domain optimized to bind to CD47 with high affinity at a picomolar level; and
- An inactive Fc domain that reduces cytopenias while preserving the desired PK properties of antibodies with an active Fc domain.

The resulting fusion protein has approximately one-half the molecular weight of a typical antibody. Evorpaccept’s lower molecular weight enables it to deliver the molar equivalent of an antibody at one half the dose. For example, a 10mg/kg of evorpaccept is equivalent to 20 mg/kg of a regular antibody. Evorpaccept’s lower molecular weight may also facilitate increased solid tumor penetration and provide greater potency within the tumor microenvironment. Furthermore, evorpaccept can be efficiently and consistently produced at high yield at commercial scale utilizing standard monoclonal antibody manufacturing techniques. We believe evorpaccept’s differentiated properties potentially overcome the limitations of other CD47 blocking agents and may have utility as a combination agent in oncology.

Our lead candidate, evorpaccept, is a fusion protein that potently and selectively binds CD47 to block the SIRP $\alpha$  interaction.



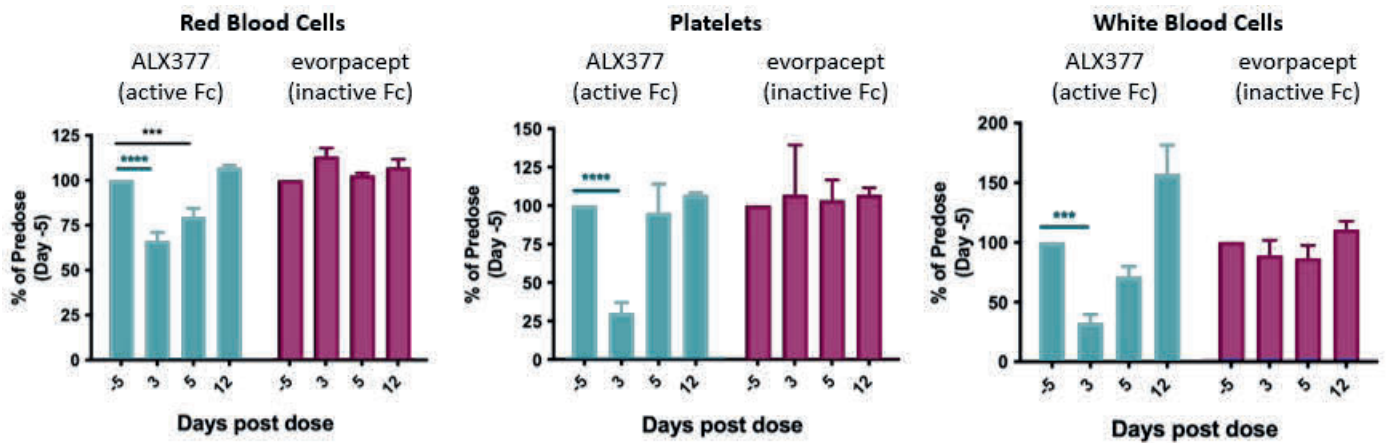
*Pre-Clinical Differentiation*

Our preclinical studies of evorpaccept support a target product profile of favorable tolerability, the ability to be dosed at high levels and increased anti-tumor activity as compared to other CD47 blocking agents. These data include the following:

*Lack of hematologic side effects*

Our preclinical data demonstrate that CD47 blocking agents with an active Fc domain directly cause adverse hematologic side effects. To support this hypothesis, we engineered a fusion protein with a SIRP $\alpha$  CD47-binding domain identical to evorpaccept's binding domain but fused to an active, wild-type IgG1 Fc domain, ALX377. We administered 30 mg/kg evorpaccept and 30 mg/kg ALX377 in mouse models and measured red blood cell, or RBC, platelet and white blood cell (lymphocyte, monocytes and granulocytes) counts. As shown in the figure below, mice treated with evorpaccept having an inactive Fc domain showed blood count levels that were similar to the pre-dose baseline. In contrast, mice treated with ALX377 having an active Fc domain showed average decreases of 34% in RBC count, 70% in platelet count and 67% in white blood cell count three days post-dosing as compared to baseline counts.

*The inactive Fc domain on evorpaccept is responsible for improved hematologic tolerability in preclinical models.*



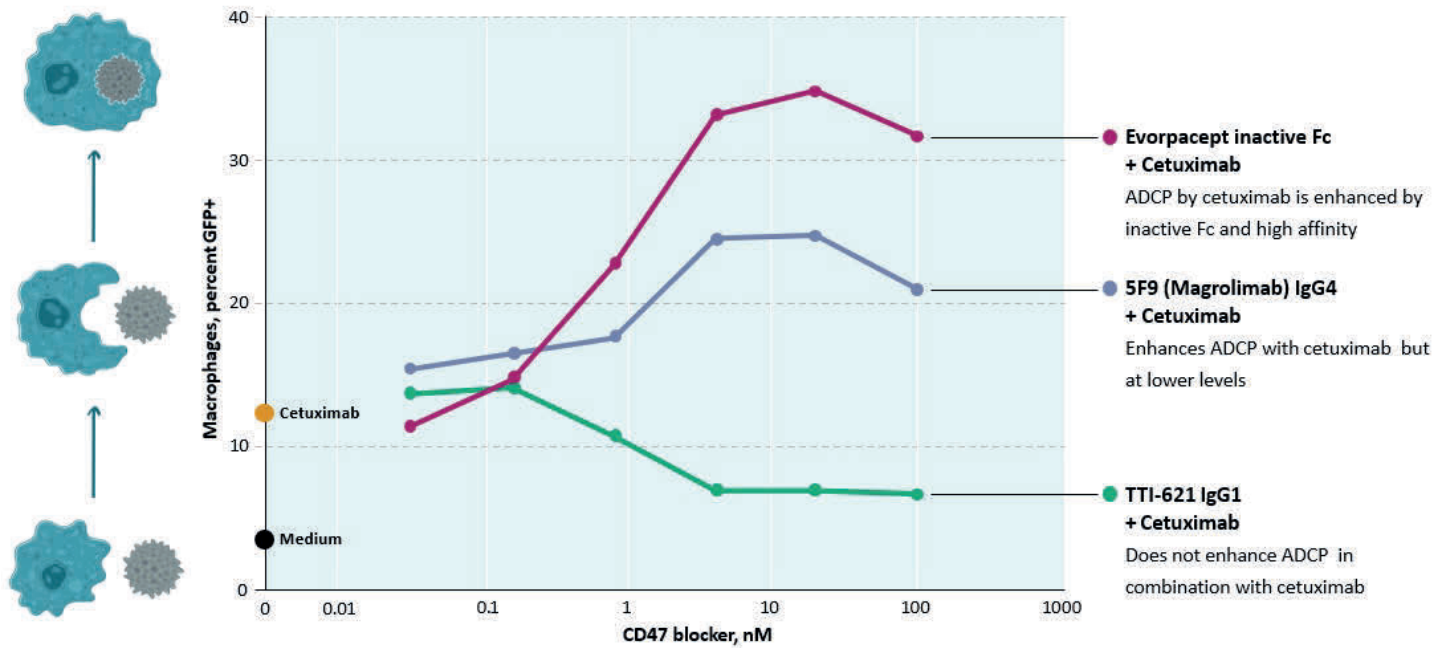
CD-1 mice received 30 mg/kg IV single dose  
 \*\*\*\*p<0.0001, \*\*\*p<0.001

In vitro and in vivo toxicology studies in monkeys show that evorpacept was well-tolerated at intravenous doses of up to 100 mg/kg/week in the 1-month study and up to 30 mg/kg every other week in the 3-month study with no target organ toxicity or toxicity related to the exaggerated pharmacology of evorpacept. Together, these preclinical studies demonstrate that inactivation of the Fc domain of evorpacept avoids adverse effects on normal blood cells seen on other CD47 blocking agents with an active Fc domain. They also support our expectation that evorpacept's lack of overlapping toxicities with other anti-cancer therapies may result in fewer adverse outcomes in the clinic when combined with these therapies than combinations with conventional CD47 blocking agents.

*Evorpacept elicits superior phagocytosis in combination with anti-cancer antibodies*

The inactive Fc of evorpacept does not compete with the active Fc domain of other therapeutic antibodies for binding with Fcγ receptors on effector cells of the immune system. This fact, coupled with the high-affinity CD47 binding of our agent, results in enhanced phagocytosis from evorpacept in combination with other anti-cancer antibodies to a greater extent than other CD47 blockers. We believe this will allow us to explore evorpacept in combination with a higher number of leading anti-cancer antibodies compared to other CD47 blocking agents in both hematologic malignancies and solid tumors. In order to investigate the potential effects of the Fc domain and CD47 binding affinity on phagocytic activity, we produced two CD47 blocking agents with either an IgG4 or IgG1 active Fc domain, based on published sequences from two other clinical CD47 blockade programs. We combined these agents and evorpacept with cetuximab, an epidermal growth factor receptor, or EGFR, inhibitor that is the FDA approved for several solid tumors, to assess phagocytic activity as compared to single-agent cetuximab. Both cetuximab and the active Fc domain of a CD47 blocking agent bind to the same cell surface Fcγ receptors on a macrophage, potentially creating competition. IgG1 binds to receptors with higher affinity than IgG4 does, and evorpacept's inactive Fc does not bind. This experiment shows that CD47 blocking agents with active Fc domains and lower affinity, combined with cetuximab result in lower phagocytic activity from macrophages as compared to evorpacept with cetuximab. This experiment suggests evorpacept, the only clinical CD47 blocking agent with an inactive Fc domain and high-affinity CD47 binding, may be unique in its anti-tumor activity when combined with anti-tumor antibodies.

*Evorpacept has shown superior antibody-dependent cellular phagocytosis, or ADCP, of solid tumor cells compared to CD47 blockers with an active Fc domain and lower CD47 affinity when combined with an anti-tumor antibody.*



**Clinical Data**

*Favorable tolerability profile*

Clinical trials to date continue to support evorpacept's differentiated approach to CD47 blockade. Evorpacept has been administered in over 500 subjects with advanced solid or hematologic malignancies, including in combination with a range of standard of care anti-cancer regimens. Based on ALX's routine and ongoing reviews of safety data, evorpacept has been consistently well-tolerated, with low occurrences of cytopenias and other toxicities.



We have not yet reached a maximum tolerated dose in any trial of evorpaccept. Because the half-life of evorpaccept is longer with higher dose levels, such dosing may allow up to every four weeks, or Q4W, administration schedule. Furthermore, evorpaccept's tolerability profile could potentially result in a broad therapeutic window. We believe its tolerability profile to date supports initiation of trials in combination with highly effective, but more toxic, standard of care agents, such as chemotherapies that can cause cytopenias. Many other CD47 blocking agents are unable to combine with these anti-cancer agents due to overlapping toxicity profiles. We believe evorpaccept may be uniquely positioned in its ability to combine with standard of care agents including those with associated cytopenias.

All other CD47 blockers that have reported clinical data have reported high rates of both all grade and high grade cytopenias. A clinical trial of magrolimab, a competitive CD47 blockade program, in solid tumors resulted in 56% anemia in the first 48 subjects dosed, despite each subject receiving an initial priming dose to mitigate anemia. A trial of magrolimab in 68 subjects with higher-risk MDS or AML presented in November 2020 (Sallman, SITC 2020, Session 304) reported over 35% grade 3 or 4 treatment-related anemia, over 15% grade 3 or 4 treatment-related neutropenia and over 10% grade 4 treatment-related thrombocytopenia. Such a tolerability profile could present challenges to the administration of this compound as a single agent and in combination. In contrast, evorpaccept's tolerability profile may enhance the breadth of clinical development by providing better treatment options for patients with cancer.

### ***Evorpaccept in Solid Tumors***

We have generated clinical data with evorpaccept in combination with multiple anti-cancer agents in solid tumors. We believe the smaller molecular weight of evorpaccept as compared to a typical antibody may facilitate greater penetration into solid tumors. In addition, we believe the favorable tolerability profile of evorpaccept will allow for higher administered doses in a range of combination strategies with leading therapies for solid tumors. Solid tumors represent the largest markets within oncology and many of these oncology indications are poorly served by current therapies, both in front-line as well as in the relapsed and refractory settings. We have demonstrated proof of activity with evorpaccept in combination treatment in two solid tumor settings in the FIH Phase 1 clinical trial: HNSCC and HER2-positive gastric/GEJ cancer. We believe these indications offer registration pathways in combination with existing approved therapies and have advanced evorpaccept into randomized Phase 2 trials (ASPEN-03 and ASPEN-04) in HNSCC in 2021, and initiated a randomized Phase 2 trial (ASPEN-06) in HER2-positive gastric/GEJ cancer in 2022.

Evorpaccept can be combined with PD-1/programmed death-ligand 1, or PD-1/PD-L1, agents in a broad range of solid tumors. As part of our development strategy, we are exploring the use of evorpaccept in combination with a PD-1 inhibitor with and without chemotherapy in HNSCC. PD-1/PD-L1 inhibitors are currently approved by the FDA for over 20 indications and had over \$30 billion in 2021 sales. Other CD47 blocking approaches may be limited in their ability to combine with PD-1/PD-L1 inhibitors due to cumulative or overlapping toxicities.

We investigated evorpaccept in subjects with solid tumors in additional cohorts as part of an extensive Phase 1 FIH trial. Part 1 was a dose escalation trial of single-agent evorpaccept intended to examine tolerability and recommended dosing and was not expected to show single-agent activity. Sixteen subjects with solid tumors received evorpaccept as a single-agent on a QW schedule at doses ranging from 0.1 mg/kg to 10 mg/kg and 12 subjects received evorpaccept as a single-agent on a QoW dosing schedule at a dose of 30 mg/kg. The maximum tolerated dose was not determined on either schedule. However, the maximum administered dose was 30 mg/kg for the Q2W dosing schedule and 10 mg/kg for the QW schedule.

FIH Phase 1 Part 2 was comprised of evorpaccept escalation and expansion cohorts. In subjects with solid tumors, evorpaccept was combined with various anti-cancer agents including pembrolizumab, trastuzumab and chemotherapy. Adverse events from these cohorts are reported above. As previously discussed, evorpaccept has consistently displayed a favorable tolerability profile. Many of the reported adverse events have been associated with either pembrolizumab or trastuzumab.

In HNSCC, our initial FIH Phase 1b expansion trial combined evorpaccept with pembrolizumab, an anti-PD-1 agent, which is a standard of care for subjects with HNSCC. Final results from the cohort of evorpaccept combined with pembrolizumab were reported at the 2020 American Society of Clinical Oncology, Virtual Scientific Program, or ASCO 2020, and provided the first demonstration of evorpaccept's ability to enhance checkpoint inhibitor antibody activity in solid tumors and is the basis for the FDA granting Fast Track designation for evorpaccept in combination with pembrolizumab, platinum, and fluorouracil for the first-line treatment of adult patients with metastatic or unresectable, recurrent HNSCC (February 2020). Data from this trial supported our second trial in HNSCC that adds chemotherapy (5-fluoropyrimidine plus cisplatin) to the combination of pembrolizumab and evorpaccept and preliminary data for this cohort was presented at the Society for Immunotherapy of Cancer's 35th Anniversary Annual Meeting, or SITC 2020. We also entered into a clinical trial collaboration with Merck to study the combination of evorpaccept and pembrolizumab with and without chemotherapy in a randomized Phase 2 trial.



In HER2-positive gastric/GEJ cancer, our FIH Phase 1b expansion trial included a combination with trastuzumab, an anti-HER2 agent, that is the standard of care for subjects with HER2-positive gastric/GEJ cancer and is FDA-approved for other HER2-expressing tumors. Final results from the cohort of evorpacept combined with trastuzumab were reported at ASCO 2020 and provided the first demonstration of evorpacept activity with an anti-tumor targeted antibody in subjects with solid tumors. Data from this trial formed the basis for the FDA granting Fast Track designation for evorpacept in combination with trastuzumab, ramucirumab and paclitaxel for the treatment of patients with HER2-overexpressing advanced gastric or GEJ adenocarcinoma with disease progression on or after prior trastuzumab, and fluoropyrimidine or platinum-containing chemotherapy (January 2020). Preliminary data for this cohort was also presented at SITC 2020. In January 2022, the FDA's Office of Orphan Products Development granted Orphan Drug Designation to evorpacept for the treatment of patients with gastric/GEJ cancer. In October 2023, we announced positive prespecified interim Phase 2 clinical data from our ASPEN-06 clinical trial. This prespecified interim analysis reported results from 54 randomized patients with second and third line gastric/GEJ cancer, including patients previously treated with fam-trastuzumab deruxtecan-nxki and checkpoint inhibitors.

In July 2022, the FDA granted Fast Track designation for evorpacept in combination with pembrolizumab for first-line treatment of adult patients with metastatic or unresectable, recurrent HNSCC whose tumors express PD-L1.

In 2021, an IST of evorpacept was initiated in combination with rituximab and lenalidomide for the treatment of patients with indolent and aggressive NHL at MD Anderson Cancer Center. In 2022, an IST of evorpacept was initiated in combination with pembrolizumab and cetuximab for the treatment of patients with refractory microsatellite stable metastatic colorectal cancer at the University of Colorado. In 2023, a Phase 2 IST of evorpacept was initiated in combination with liposomal doxorubicin and pembrolizumab in patients with recurrent platinum-resistant ovarian cancer, sponsored by the University of Pittsburgh in Pennsylvania.

Overall, we believe our development plan focused on two distinct mechanisms of action for evorpacept in solid tumors has significant potential and represents a strong complement to our programs in hematologic malignancies. With encouraging data in multiple drug combinations initially evaluated in the clinic, we plan to advance trials to assess efficacy in the solid tumor indications in combination with anti-cancer antibodies and ADCs, and in combination with PD-1/PD-L1 checkpoint inhibitors.

### ***Evorpacept in HNSCC (combining with a PD-1/PD-L1 immune checkpoint inhibitor)***

#### *Disease background*

There are estimated to be over 38,000 people living in the United States with metastatic HNSCC, with over 50,000 newly incident cases at all stages estimated to be diagnosed in 2020. Five-year survival is 85% for patients diagnosed with localized disease but decreases to only 40% for those diagnosed with metastatic disease, underlying the need for improved treatment options.

FDA-approved and National Comprehensive Cancer Network, or NCCN, recommended therapies for the first-line treatment of recurrent/metastatic disease include pembrolizumab monotherapy, pembrolizumab combined with chemotherapy, platinum and fluorouracil, and cetuximab, an anti-epidermal growth factor receptor antibody, combined with chemotherapy among other treatments. The KEYNOTE-048 clinical trial led to the FDA approval of pembrolizumab monotherapy as a first-line treatment in patients with HNSCC whose tumors express PD-L1 on a Combined Positive Score, or CPS,  $\geq 1$  and approval of pembrolizumab plus chemotherapy as a first-line treatment in patients with HNSCC regardless of CPS. In KEYNOTE-048, pembrolizumab monotherapy achieved 17% ORR with a median progression-free survival, or mPFS, of 2.3 months in subjects with HNSCC regardless of CPS. Of particular note, in subjects with CPS  $< 1$  pembrolizumab monotherapy only achieved a 5% ORR.

Pembrolizumab monotherapy in previously treated HNSCC was reported in the Phase 3 KEYNOTE-040 trial. Subjects were excluded if they had prior therapy with an anti-PD-1 or anti-PD-L1 therapy. In KEYNOTE-040, pembrolizumab achieved a 15% ORR, mPFS of only 2.1 months and mOS of 8.4 months. While we believe pembrolizumab is an important treatment option for both first- and second-line HNSCC, the majority of patients do not have an objective response to pembrolizumab-based therapy.

Despite the approval of pembrolizumab, we believe that there is significant unmet need remaining for patients with HNSCC. The addition of evorpacept to pembrolizumab, or pembrolizumab plus chemotherapy, may have the potential to improve response rates and provide additional clinical benefit to patients with metastatic HNSCC. We have evaluated evorpacept in subjects with metastatic HNSCC and continue to develop evorpacept in this setting.

### *Trial design*

Evorpacept was investigated in two combinations and lines of therapy in subjects with recurrent/metastatic HNSCC. First, evorpacept was investigated in combination with pembrolizumab in subjects with recurrent/metastatic HNSCC who had received at least one prior systemic therapy. The clinical evaluation of evorpacept in HNSCC was an open-label, multisite expansion of our FIH Phase 1 trial to assess safety and tolerability with response rate and duration as secondary endpoints. There was no requirement for PD-L1 expression. Subjects received evorpacept 10 mg/kg QW in combination with pembrolizumab 200 mg on a Q3W dosing schedule. Subject response was evaluated based on RECIST version 1.1. Twenty subjects were dosed with evorpacept and as of October 1, 2020, all subjects in the evorpacept with pembrolizumab HNSCC expansion cohort were response evaluable. Because standard of care in first-line HNSCC was evolving during the course of this trial to include checkpoint inhibitors, 50% (10) of the subjects who enrolled were checkpoint inhibitor naïve and 50% (10) had previously received a checkpoint inhibitor.

Additionally, evorpacept was investigated in the ongoing trial of evorpacept in combination with pembrolizumab, 5FU and platinum therapy in subjects with recurrent/metastatic HNSCC who had received no prior treatment for advanced disease.

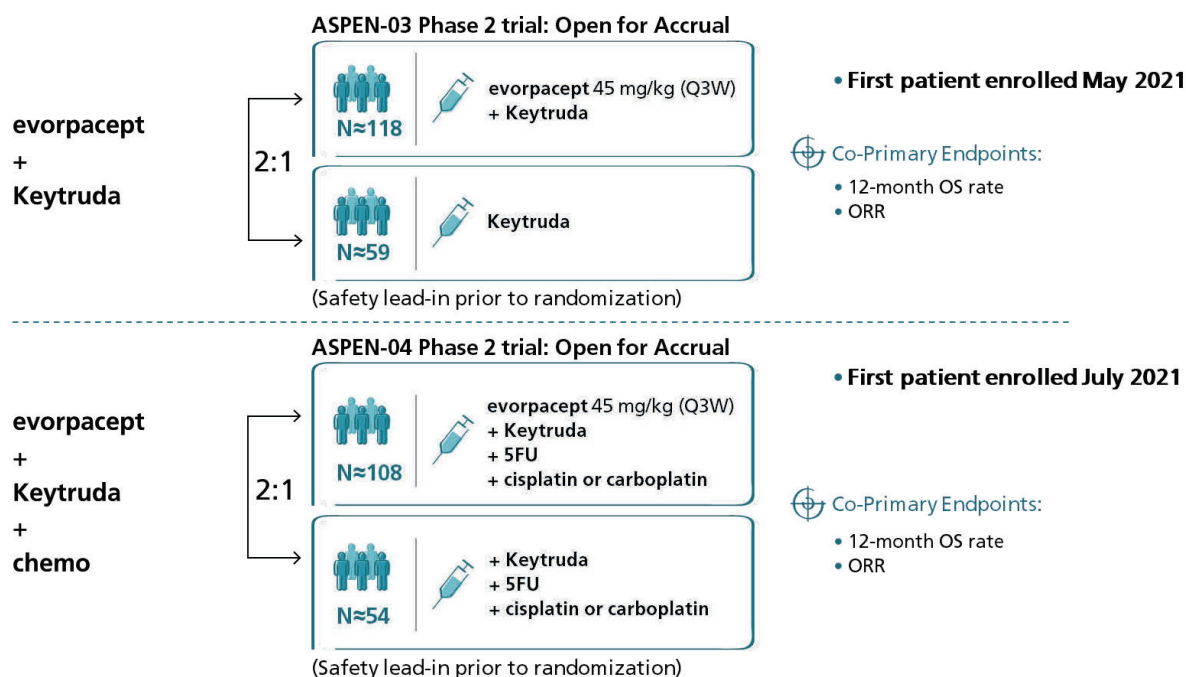
### *Outcomes*

- The primary objective of the FIH Phase 1 trial was to assess safety. Final results of the fully enrolled evorpacept with pembrolizumab cohort and partially enrolled evorpacept plus pembrolizumab and chemotherapy cohort were reported at SITC 2020. As reported above in the summary tables of treatment-related adverse events from all evorpacept trials, the combination was well tolerated. As of October 1, 2020, evorpacept with pembrolizumab achieved an ORR of 40% (4/10) in checkpoint inhibitor naïve subjects while maintaining a tolerability profile consistent with earlier trials. Some of the 20 subjects had a CPS of zero and a response was also observed within this subject population. We believe the addition of evorpacept to pembrolizumab represents a potentially significant advance over pembrolizumab monotherapy based on a review of the KEYNOTE-040 trial results that showed an ORR of 15% in a similar checkpoint inhibitor therapy naïve population. Based on our clinical trial data, the FDA granted Fast Track designation for evorpacept in combination with pembrolizumab, platinum, and fluorouracil for the first-line treatment of adult patients with metastatic or unresectable, recurrent HNSCC (February 2020).
- Updated results for evorpacept with pembrolizumab and chemotherapy were reported at SITC 2021. As of September 1, 2021 in the thirteen evaluable subjects with first line (1L) HNSCC who have not received prior treatment for their advanced disease, evorpacept demonstrated an initial ORR of 38.5% with a 12-month OS rate of 87.5% and mOS not reached. These results compare favorably with benchmark survival data from standard pembrolizumab plus chemotherapy in the 1L HNSCC setting where ORR is a less reliable predictor for clinical benefit compared to longer-term metrics such as 12-month OS rate and mOS (the gold standard of clinical benefit) in patients with aggressive disease.

We also analyzed paired pre- and on-treatment tumor biopsies from subjects for the presence of CD8+ T cells, CD68+ and CD163+ myeloid cells. After treatment with evorpacept, tumor samples showed increased infiltration of CD8+, CD68+ and CD163+ cells in the tumor, which suggests that evorpacept also engages the innate and adaptive immune system consistent with its mechanism of action.

### *Clinical development plan*

Our HNSCC development plan is to build on the initial results of evorpacept in checkpoint inhibitor naïve patients in combination with pembrolizumab. Given the results of KEYNOTE-048, we expect pembrolizumab, or pembrolizumab plus chemotherapy, to continue to be widely used in the first-line treatment of metastatic HNSCC. Therefore, our future plans will be focused on establishing additional efficacy, in the context of acceptable safety and tolerability, over pembrolizumab alone, and pembrolizumab plus chemotherapy, in the front-line metastatic HNSCC setting at investigational sites in the USA, Canada, UK, Europe, and Asia Pacific region. In September 2020, we announced a clinical trial collaboration with Merck to evaluate evorpacept in combination with pembrolizumab with and without chemotherapy in two randomized international Phase 2 trials in subjects with HNSCC who have not received prior therapy for advanced disease. The first trial (ASPEN-03), with the first patient enrolled in May 2021, is evaluating the efficacy of evorpacept in combination with pembrolizumab for the first-line treatment of patients with PD-L1 expressing metastatic or unresectable, recurrent HNSCC. The second trial (ASPEN-04), with the first patient enrolled in July 2021, is evaluating evorpacept in combination with pembrolizumab and standard chemotherapy for the first-line treatment of patients with metastatic or unresectable, recurrent HNSCC. We expect to announce top line results of ASPEN-03 and ASPEN-04 in the fourth quarter of 2024 or first quarter of 2025.



### ***Evorpacept in HER2-Positive Gastric/GEJ (combining with an anti-cancer antibody)***

#### ***Disease background***

Over 25,000 people are estimated to be living in the United States with diagnosed metastatic gastric/GEJ carcinoma. A large, international Phase 3 trial of trastuzumab in gastric/GEJ cancer found that of the nearly 4,000 subjects screened for inclusion in the trial, 17% of them were HER2-positive, which suggests a general HER2-positive rate for patients with gastric/GEJ cancer. In East Asian countries, gastric/GEJ cancer is much more common than in the United States, with incidence rates 4-10 times higher. China alone has a diagnosed incidence of over 900,000 patients with gastric/GEJ cancer per year.

First-line standard of care treatment includes trastuzumab combined with the chemotherapy agents platinum and fluoropyrimidine with or without a checkpoint inhibitor. Trastuzumab, marketed as HERCEPTIN®, is an anti-HER2 antibody that has multiple FDA approvals in patients with HER2-positive cancers. A standard of care 2<sup>nd</sup> line regimen in the U.S. is ramucirumab, marketed as Cyramza®, a vascular endothelial growth factor 2 receptor monoclonal antibody, in combination with paclitaxel, a widely used chemotherapy, regardless of HER2 expression. In a Phase 3 trial leading to FDA approval, ramucirumab plus paclitaxel achieved a 28% ORR with a 9.6 month mOS in subjects with previously treated gastric/GEJ cancer. Fam-trastuzumab deruxtecan-nxki, marketed as ENHERTU®, is a HER2-directed antibody and topoisomerase inhibitor conjugate that is also FDA approved for patients with HER2-overexpressing gastric/GEJ cancer who have received a prior trastuzumab-based regimen.

HER2-positive patients with gastric/GEJ cancers in second-line treatment are likely to have received an anti-HER2 antibody-based treatment in their first line of treatment. A prospective clinical trial studied trastuzumab plus paclitaxel compared to paclitaxel alone in previously treated HER2-positive subjects with gastric/GEJ cancer. Subjects were required to have progressed during the first line of treatment with trastuzumab plus chemotherapy (fluoropyrimidine plus platinum). The objective of this trial was to assess the clinical effect of trastuzumab after patients had progressed on prior trastuzumab treatment. The trial results showed that the addition of trastuzumab added no meaningful clinical benefit over paclitaxel alone. There was no significant improvement in mOS, mPFS or ORR compared to the paclitaxel arm. Based on these data, we hypothesized that we could attribute observed responses when treating a similar subject population with evorpacept paired with trastuzumab, to a combination effect of the two agents and not simply a response to trastuzumab alone.

### *Trial design*

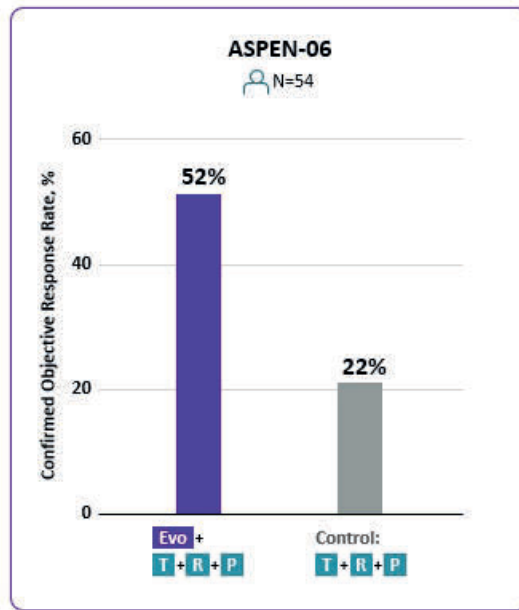
Evorpacept was investigated in two combinations in subjects with HER2-positive gastric/GEJ cancer in the Phase 1 FIH study. First, evorpacept was investigated with trastuzumab in subjects with relapsed/refractory HER2-positive gastric/GEJ cancer. This trial was an open-label, multisite expansion of our FIH Phase 1 trial to assess safety and tolerability with response rate and duration as secondary endpoints. Twenty subjects from the gastric/GEJ expansion cohort received evorpacept 10 mg/kg QW in combination with trastuzumab at an initial dose of 8 mg/kg followed by 6 mg/kg intravenous infusion Q3W.

In March 2022 we announced initiation of ASPEN-06, a Phase 2/3 study evaluating the combination of evorpacept and trastuzumab, added to ramucirumab and paclitaxel for the treatment of patients with HER2-positive gastric/GEJ cancer. ASPEN-06 is a randomized phase 2 (open-label) / phase 3 (double-blind), international, multi-center study to evaluate the efficacy of evorpacept in combination with trastuzumab, ramucirumab and paclitaxel for the treatment of patients whose tumors have progressed following treatment with HER2-targeted therapy and chemotherapy. The Phase 2 portion of the trial has 122 patients randomized 1:1 with 61 patients receiving evorpacept 30 mg/kg 2QW in combination with trastuzumab, in addition to ramucirumab and paclitaxel compared to the control arm of 61 patients who received the combination of trastuzumab, ramucirumab and paclitaxel.

### *Outcomes*

The primary objective of the FIH Phase 1 trial was to assess safety and the combination regimen was well tolerated. Results of the fully enrolled evorpacept + trastuzumab cohort were reported at SITC 2020, and the fully enrolled evorpacept + trastuzumab + ramucirumab + paclitaxel cohort were reported at SITC 2021. Importantly, evorpacept with trastuzumab achieved an ORR of 21.1% (4/19) in subjects treated with the doublet and an ORR of 72.2% (13/18) in subjects treated with evorpacept with trastuzumab, ramucirumab, and paclitaxel. The FDA granted Fast Track designation for evorpacept in combination with trastuzumab, ramucirumab, and paclitaxel for the treatment of patients with HER2-overexpressing advanced gastric or GEJ adenocarcinoma with disease progression on or after prior trastuzumab, and fluoropyrimidine or platinum-containing chemotherapy (January 2020) partly due to the data with evorpacept in combination with trastuzumab alone for the treatment of gastric cancer. In January 2022, the FDA's Office of Orphan Products Development granted Orphan Drug Designation to evorpacept for the treatment of patients with gastric/GEJ cancer. Based on prior studies, one of which is described above, observed responses can likely be attributed to the combination effect and not a response to single-agent trastuzumab. As described above, ramucirumab and paclitaxel in a second-line setting resulted in an ORR of 28% in a Phase 3 trial leading to FDA approval.

The primary objective of the Phase 2 portion of the ASPEN-06 trial is to evaluate ORR of the evorpacept combination compared to the control arm. Results of a prespecified interim Phase 2 from our ongoing ASPEN-06 trial were presented in October 2023. This prespecified interim analysis reported results from 54 randomized patients with second and third line gastric/GEJ cancer, including patients previously treated with fam-trastuzumab deruxtecan-nxki and checkpoint inhibitors. A confirmed ORR of 52% was demonstrated for evorpacept in combination with trastuzumab + ramucirumab + paclitaxel compared to 22% for the control group of trastuzumab + ramucirumab + paclitaxel. mDOR was not reached for the evorpacept combination treatment arm compared to 7.4 months for the control group. The safety profile of evorpacept was consistent with previous clinical trials and was well-tolerated. The initial magnitude of improvement in ORR over available therapy and over the concurrent control arm with this well-tolerated combination suggests that evorpacept in combination with trastuzumab, ramucirumab, and paclitaxel could benefit patients with HER2-overexpressing advanced gastric/GEJ cancer.



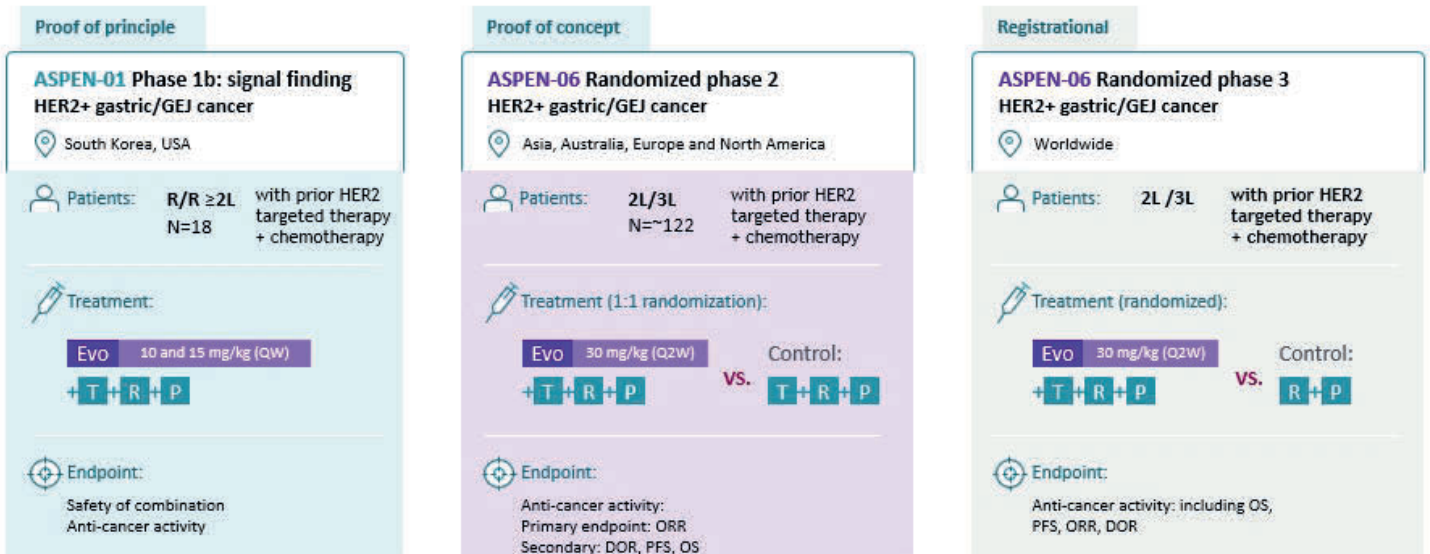
ASPEN-06 IA Data as of 29 August 2023

Legend:



### Clinical development plans

We expect to announce top line results of ASPEN-06 in June or July of 2024. This study is conducted at investigational sites in the USA, UK, Europe, and Asia Pacific region. Preliminary data from this trial has confirmed that evorpcept improves the response rate to anti-HER2-based therapy in patients with HER2-positive gastric/GEJ cancer. Based upon the final results of the Phase 2 portion of ASPEN-06, we will evaluate strategic options in moving towards a registrational Phase 3 trial.



There are multiple emerging agents, predominantly antibody-based therapies, in development for patients with HER2-positive cancer. Because these agents target HER2 as does trastuzumab, we believe that evorpcept has the potential to maximize the anti-cancer activity of these novel agents should they supplant trastuzumab in the treatment paradigm for these patients, however, clinical trials may be required to demonstrate this.



## **Evorpaccept in HER2-expressing breast cancer and other solid tumors**

We plan to continue developing evorpaccept in a broad range of tumor types and in novel combinations. In November 2020, we announced a clinical trial collaboration with Zymeworks to investigate evorpaccept in combination with Zymeworks' HER2-targeted bispecific antibody, zanidatamab, in patients with advanced HER2-expressing tumors.

Under the terms of the agreement, Zymeworks sponsors and manages an open label, multi-center Phase 1b trial to assess the safety and efficacy of the combination of zanidatamab and evorpaccept in a two-part trial. The first part of the trial will evaluate the safety of the combination treatment. The second part of the trial will evaluate the safety, tolerability and anti-tumor activity of the combination in separate cohorts of subjects with HER2-overexpressing breast cancer, HER2-low breast cancer and non-breast HER2-expressing solid tumors. The first patient in this trial was enrolled in October 2021. In October 2022, Zymeworks entered into a license agreement with Jazz and in December 2022 Jazz exercised its option to continue with an exclusive license to develop and commercialize zanidatamab in the United States, Europe, Japan and other certain territories.

In August 2022, we announced a collaboration with the Quantum Leap Healthcare Collaborative who will sponsor and manage a Phase 1 trial (I-SPY) to evaluate evorpaccept in combination with fam-trastuzumab deruxtecan-nxki for the treatment of patients with unresectable or metastatic HER2-positive and HER2-low breast cancer.

## **Clinical Development of evorpaccept in Hematologic Malignancies**

The potential therapeutic role of CD47 blockade to date has also been demonstrated in hematologic malignancies. This includes both our trials of evorpaccept as well as trials by other CD47 blockade programs. Based on our initial trials in the relapsed/refractory NHL clinical setting, preclinical studies and evidence for the clinical utility of the CD47 blockade from other programs. The combination of evorpaccept with rituximab in NHL, where evorpaccept enables the Fc-mediated antibody dependent phagocytosis that is impaired by the expression of CD47 on cancer cells provides additional support for the clinical validation of this mechanism of action and support exploring combinations of evorpaccept with other anti-cancer antibodies in hematologic malignancies. We currently have a collaboration with Sanofi who is sponsoring and managing a Phase 1/2 trial of isatuximab and dexamethasone in combination with evorpaccept for the treatment of patients with relapsed or refractory multiple myeloma. In addition, an investigator sponsored trial (IST) of evorpaccept was initiated in combination with rituximab and lenalidomide for the treatment of patients with indolent and aggressive NHL.

We initiated a Phase 1 clinical trial (ASPEN-02) of evorpaccept in patients with MDS in 2020 and in 2021 initiated a Phase 1 trial (ASPEN-05) in patients with AML as part of a less well-validated mechanism of action, which led us to test the combination of evorpaccept with azacitidine, which is described to upregulate calreticulin and potentially promote macrophage dependent phagocytosis that is inhibited by CD47. This mechanistic hypothesis was tested and ultimately not supported in our clinical trial, ASPEN-02. Based upon trial results, we are no longer planning to pursue combinations based upon this mechanism of action.

### ***NHL Proof-of-Principle***

Evorpaccept's initial hematologic clinical trial was a FIH Phase 1b expansion trial in combination with rituximab to treat subjects with relapsed/refractory NHL. This was an open-label, multisite trial to assess safety. Subjects received evorpaccept 10 mg/kg QW or 15 mg/kg QW in combination with rituximab 375 mg/m<sup>2</sup> administered as an intravenous infusion QW for four doses followed by once monthly for eight doses. In order to meet inclusion criteria, subjects must have had no curative therapy or standard approved therapy option available to them. Across all cohorts, as of October 1, 2020, subjects had received a median of three lines of therapy prior to enrollment in the evorpaccept trial. These were heavily pre-treated subjects, all of whom had progressed on previous rituximab-containing regimens.

Responses were evaluated according to the Lugano 2014 response criteria and reported as of October 1, 2020. As of October 1, 2020, evorpaccept had been administered to 33 subjects. Thirty-two subjects were response evaluable. Eleven subjects had indolent lymphomas and 22 had aggressive lymphomas. There were 11 subjects enrolled to the higher dose 15 mg/kg QW cohort, 10 of whom were response evaluable. This cohort achieved an ORR of 70.0% (7/10). The ORR reported in the lower dose 10 mg/kg QW cohort was 40.9% (9/22).

### Phase 1b NHL cohorts



relapsed/Refractory NHL,  
prior regimen with Rituximab

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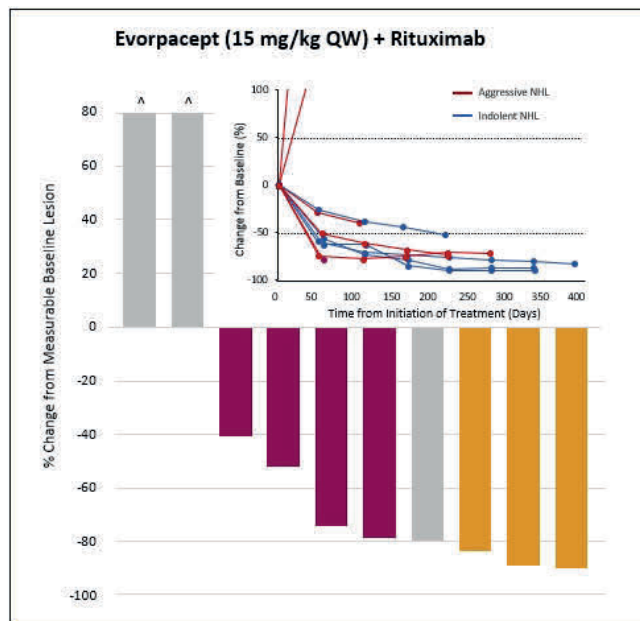
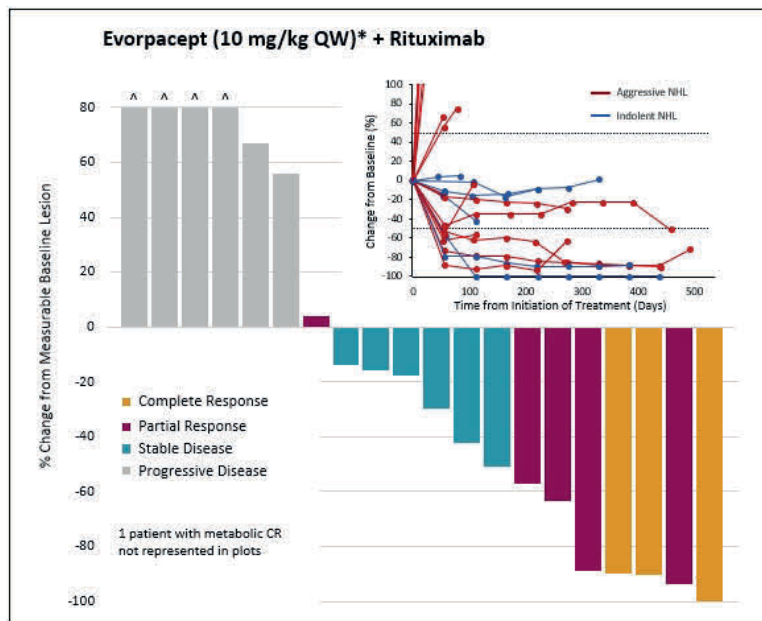


**Treatment:**  
**evorpacept** 10 or 15 mg/kg  
 once a week (QW)  
 +  
**Rituximab** 375 mg/m<sup>2</sup> once a week for  
 4 weeks, once monthly  
 for 8 months

Population	10 mg/kg QW		15 mg/kg QW	
	N	ORR	N	ORR
All	22	40.9%	10	70.0%
Aggressive	15	33.3%	6	50.0%
Indolent	7	57.1%	4	100.0%

Aggressive includes relapsed/refractory Diffuse Large B Cell and Mantle Cell Lymphomas. Indolent includes Follicular and Marginal Zone.

Lymphomas; N: Response evaluable patients; ORR: Objective response rate (complete + partial response rates). Data cutoff: October 1, 2020.



Data cutoff October 1, 2020; Response evaluable patients; Responses include metabolic response per Lugano Response Criteria.

^ more than 80% increase from baseline.

\* patient with rapid fatal progressive disease not represented in plot

We view evorpacept's initial activity in heavily pre-treated subjects with NHL as compelling evidence for the role of evorpacept in combining with anti-cancer antibodies to treat hematologic malignancies and as a favorable comparison to outcomes reported by other CD47 blocking agents in similar subjects. We believe the initial data in our 10 and 15 mg/kg QW cohorts, which showed a statistically significant exposure-dependent response, demonstrates evorpacept's activity and supports higher dose administration.

Based on the activities seen at the 10 and 15 mg/kg QW doses coupled with a favorable tolerability profile, we proceeded to test higher doses, up to 60 mg/kg Q4W. We believe this dosing schedule may be unique among CD47 blockade programs and can potentially provide a more convenient regimen in combination with monthly azacitidine for patients. This data set also supported our decision to advance evorpaccept into solid tumor indications at higher doses of 45 mg/kg once every three weeks, or Q3W, in combination with standard agents also administered Q3W.

In 2021, an IST of evorpaccept was initiated in combination with rituximab and lenalidomide for the treatment of patients with indolent and aggressive NHL, sponsored by MD Anderson Cancer Center in Texas.

## **Research Programs**

We also have a preclinical program focused on developing ALTA-002, a SIRP $\alpha$  TRAAC, that may offer additional ways to engage the innate and adaptive immune response to cancer. SIRP $\alpha$  TRAAC is complementary to our CD47 blocker approach. SIRP $\alpha$  is expressed on myeloid cells and dendritic cells which have toll-like receptor 9, or TLR9, an intracellular receptor present in a wide variety of immune cells, including B-cells, myeloid cells and dendritic cells. TRAAC, or TLR9 agonist antibody conjugate, is designed specifically for compatibility with antibody conjugation, superior pharmacokinetics, receptor-mediated uptake, and TLR9 stimulation with the potential for intravenous administration. SIRP $\alpha$  TRAAC is an agonistic molecule targeting myeloid cells and directly activates them, resulting in cytokine release, antigen presentation, and initiation of a coordinated innate and adaptive immune response against cancer. An IND for ALTA-002 is planned for the first quarter of 2024.

In October 2021, we acquired ScalmiBio and intend to further expand our pipeline with plans to develop new anti-cancer drug candidates based on ScalmiBio's SHIELD technology platform; these new molecules will be designed to address unmet cancer patient needs as stand-alone therapeutics and in combination with our lead product candidate, evorpaccept, a next-generation CD47 blocker designed to leverage the immune activation of broadly used anti-cancer agents through combination strategies. ScalmiBio's SHIELD technology is designed to minimize interaction of an antibody therapeutic with normal tissue and maximize its target binding capability within tumor microenvironment. ScalmiBio's conditional activation technology aims to increase therapeutic index by minimizing dose limiting toxicities of existing checkpoint inhibitors and other targeted anti-cancer biologics as well as enable the design of ADCs with higher drug-to-antibody ratios for improved anti-cancer activity. We also acquired ScalmiBio's proprietary cytotoxic payloads for the development of ADCs.

## **Licensing and Intellectual Property**

Our commercial success depends in part on our ability to obtain and maintain proprietary protection for our current and future product candidates, novel discoveries, product development technologies and knowhow and to operate without infringing on the proprietary rights of others. We seek to protect our proprietary position by, among other methods, filing or in-licensing U.S. and foreign patents and patent applications related to technology, inventions and improvements that are important to the development and implementation of our business. Our patent portfolio is intended to cover our product candidates and related components, their methods of use and processes for their manufacture and any other inventions that are commercially important to our business. We also rely on trademarks, trade secrets, knowhow, continuing technological innovation and confidential information to develop and maintain our proprietary position.

As of February 1, 2024, we own nine issued U.S. patents, 60 foreign issued patents, 17 pending U.S. nonprovisional patent applications and a portfolio of national patent application filings in a variety of non-U.S. jurisdictions, including Europe, Hong Kong, Brazil, Mexico, New Zealand, Japan, Australia, Canada, China, India, Israel, Republic of Korea, Singapore, Taiwan and Russia. Of these patents and patent applications, the following relate to evorpaccept: five issued U.S. patents, 10 pending U.S. nonprovisional patent applications, one pending PCT application, and a portfolio of national patent application filings in a variety of non-U.S. jurisdictions, including Europe, Hong Kong, Brazil, Mexico, New Zealand, Japan, Australia, Canada, China, India, Israel, Republic of Korea, Singapore and Russia. The following relate to antibody shielding technology and exatecan derivatives: one issued (allowed) U.S. patent, two pending U.S. nonprovisional patent applications, 29 pending foreign patent applications, and one pending PCT application.

The term of individual patents depends upon the legal term for patents in the countries in which they are granted. Our nine U.S. issued patents and, if issued as U.S. patents, our 17 U.S. nonprovisional patent applications are expected to expire between August 2036 and November 2043 excluding any additional term for patent term adjustments or patent term extensions, with an expiration of between August 2036 and May 2043 with respect to our patent and patent applications related to evorpaccept, excluding any additional term for patent term extensions.

We obtained a worldwide, royalty-bearing, sublicensable license from the Board of Trustees of the Leland Stanford Junior University, or Stanford, under certain patents relating to high-affinity SIRP $\alpha$  variant polypeptides, to develop, manufacture and commercialize products for use in certain licensed fields, the scope of which would include the application of the licensed intellectual property in oncology. For more information regarding our license agreement with Stanford, please see “—Exclusive (Equity) Agreement with Stanford University.”

The patent portfolio we have exclusively licensed from Stanford contains patent families relating to high-affinity SIRP $\alpha$  variant polypeptides, which includes two issued patents in the U.S. and one each in Australia, Canada, China, Europe, Hong Kong and four in Japan. The European patent has been validated as national patents in 37 different European countries. The patent family includes one pending patent application in each of U.S., Europe, and China and two pending patent applications in Hong Kong. These patents and patent applications are subject to retained rights by Stanford to allow academic and nonprofit research institutions to practice the licensed technology and patents for noncommercial purposes. In addition, these patents are subject to certain pre-existing rights that Stanford has granted to two third parties. These patents are expected to expire in 2033 excluding any extension of patent term that may be available.

We are aware of a European patent (EP 2 429 574) owned by UHN and The Hospital for Sick Children that relates to the treatment of hematologic cancers with polypeptides comprising soluble human SIRP $\alpha$ , or a CD47-binding fragment thereof. This patent, which was originally granted on May 6, 2015, was revoked by the Opposition Division of the European Patent Office (Opposition Division) on November 6, 2017. The revocation was appealed by UHN and The Hospital for Sick Children, and on October 18, 2022, the Board of Appeal of the European Patent Office (Board of Appeal) ruled in favor of UHN with respect to the matter on appeal, but remanded the case back to the Opposition Division for consideration of a further ground of invalidity (sufficiency of disclosure). On December 8, 2023, the Opposition Board held that the disclosure in EP 2 429 574 was sufficient and upheld the patent in amended form. On February 15, 2024, the Board of Appeal announced that it had received a notice of appeal with respect to the Opposition Board’s ruling regarding sufficiency of disclosure. A date for the appeal hearing has not yet been announced. Additionally, on December 27, 2023, a second European Patent (EP 2 995 315), a divisional of European patent (EP 2 429 574), was granted to UHN and The Hospital for Sick Children. This patent relates to the eradication of hematological CD47+ cancer cells and tumors with polypeptides comprising soluble human SIRP $\alpha$ , or a CD47-binding fragment thereof. On February 27, 2024, the Opposition Division announced that it had received a notice of opposition with respect to EP 2 995 315. A date for the opposition hearing has not yet been announced. The patent claims of both EP 2 429 574 and EP 2 995 315, if not revoked or otherwise limited by the European Patent Office, could potentially limit our ability to pursue evorpacept in certain indications in certain geographies in the future. The U.S. counterpart to EP 2 429 574 was granted in 2021 as US patent 10,907,209. However, we believe that we do not infringe claims listed in this U.S. patent.

For more information regarding the risks related to our intellectual property, including the above referenced intellectual property proceedings, see “Risk Factors—Risks Related to Our Intellectual Property.”

### **Exclusive (Equity) Agreement with Stanford University**

In March 2015, we entered into a license agreement, or the Stanford Agreement, with The Board of Trustees of the Leland Stanford Junior University under which we obtained a worldwide, royalty-bearing, sublicensable license under certain patents relating to our current product candidates, to develop, manufacture and commercialize products for use in certain licensed fields, the scope of which would include the application of the licensed intellectual property in oncology. The license granted to us in the Stanford Agreement includes an exclusive grant, subject to certain pre-existing non-exclusive or exclusive rights that Stanford retained for grant to third parties with respect to certain categories of the licensed patents in certain fields of use and retained rights by Stanford and all other nonprofit institutions to use and practice the licensed patents and technology for internal research and other nonprofit purposes. The license granted to us in the Stanford Agreement also includes non-exclusive grants to certain Stanford patents.

In consideration for the rights granted to us under the Stanford Agreement, we paid Stanford a nonrefundable license royalty and reimbursed Stanford for past patent expenses, together totaling less than \$0.1 million, and granted Stanford a specified number of our common stock. In addition, we are obligated to pay Stanford ongoing patent expenses and an annual license maintenance fee, which are nominal and will be creditable against any royalties payable to Stanford in the applicable year. We are required to make milestone payments up to an aggregate of \$5.0 million in respect of a specified number of licensed products that successfully satisfy certain clinical and regulatory milestones. We recorded the first milestone payment of \$0.2 million during the year ended December 31, 2021. There have been no milestones met during the year ended December 31, 2023. We also agreed to pay Stanford tiered royalties on a specified percentage of net sales made by us, our affiliates and our sublicensees of licensed products at rates ranging within low single-digit percentages, subject to certain reductions and offsets. Our license, on a licensed product-by-licensed product and country-by-country basis, shall become royalty-free and fully paid-up upon the later of the date on which the last valid claim included in the exclusively or non-exclusively licensed patents expires and ten years after the first commercial sale of the licensed product in such country.



We may terminate the Stanford Agreement, on a licensed product-by-licensed product basis, at any time for any reason by providing at least 60 days' written notice to Stanford. Stanford may terminate the Stanford Agreement if we are in breach of any provision of the Stanford Agreement and fail to remedy such breach within 60 days after written notice of such breach by Stanford. In addition, Stanford has the right to terminate the Stanford Agreement, on a licensed product-by-licensed product basis, if we are not diligently developing and commercializing such licensed product under certain conditions or if we fail to achieve specified development milestones for such licensed product by certain dates, subject to our extension rights.

### **Other Third-Party Agreements**

We have entered into license agreements with third parties related to the development and commercialization of our product candidates, including evorpaccept, and SIRP $\alpha$  antibodies which we are exploring in our research program. In consideration of the foregoing, we have agreed to customary payment terms in these agreements, including certain milestone payments upon the achievement of clinical and commercial milestones and low single-digit royalties. See the section titled "Management's Discussion and Analysis of Financial Condition and Results of Operations—Contractual Obligations and Commitments—License and Collaboration Agreements."

### **Commercialization**

We intend to retain significant development and commercial rights to our product candidates and, if marketing approval is obtained, to commercialize our product candidates on our own, or potentially with a partner, in the United States and other regions. We currently have no sales, marketing or commercial product distribution capabilities and have no experience as a company commercializing products. We intend to build the necessary infrastructure and capabilities over time for the United States, and potentially other regions, following further advancement of our product candidates. Clinical data, the size of the addressable patient population, the size of the commercial infrastructure and manufacturing needs may all influence or alter our commercialization plans.

### **Manufacturing and Supply**

We do not own or operate and do not intend to establish our own manufacturing facilities. We rely on, and will continue to rely on, CMOs for both drug substance and drug product. Both evorpaccept bulk drug substance and finished drug product are produced in accordance with current good manufacturing practices, or cGMPs.

Our existing supply of evorpaccept is sufficient to complete our clinical trials through the second quarter of 2025. We plan to manufacture additional supplies with our existing CMOs to produce evorpaccept drug product sufficient to complete the ongoing and planned clinical trials described in this document. We first entered into an engagement with KBI Biopharma, Inc. in 2015 for analytical method development, formulation development, bulk drug manufacturing, release and stability testing. We first entered into a drug product manufacturing agreement with Lyophilization Services of New England, Inc. (now PCI Pharma Services) in 2016 for all evorpaccept drug product used in clinical trials. We subsequently entered into a drug product manufacturing agreement with Patheon UK Limited in 2022 for additional drug product production of evorpaccept drug product used in clinical trials.

### **Competition**

The development and commercialization of new product candidates is highly competitive. We face competition with respect to evorpaccept and will face competition with respect to any product candidates that we may seek to develop or commercialize in the future, from major pharmaceutical, specialty pharmaceutical and biotechnology companies among others. We compete in the segments of the pharmaceutical, biotechnology and other related markets that develop immune-oncology therapies for the treatment of cancer. There are other companies working to develop immuno-oncology therapies for the treatment of cancer including divisions of large pharmaceutical and biotechnology companies of various sizes. The large pharmaceutical and biotechnology companies that have commercialized and/or are developing immuno-oncology treatments for cancer include, but are not limited to, AstraZeneca, Bristol Myers Squibb, Gilead Sciences, Merck, Novartis, Pfizer and Roche/Genentech.



Some of these competitive products and therapies are based on scientific approaches that are the same as or similar to our approach, including with respect to the targeting of CD47 pathway, and others are based on entirely different approaches. We are aware that Adagene, Akesobio, Bio-Thera Solutions, Boehringer Ingelheim, Bristol Myers Squibb, Byondis, Centessa, Conjupro Biotherapeutics, CTTQ (SinoBiological), Daiichi Sankyo, Exelixis, GenSci, Gilead Sciences (through its acquisition of Forty Seven), Hanchor Bio, Hisun, Hutchmed, I-Mab, Ichnos, ImmuneOncia Therapeutics, ImmuneOnco Biopharma, Innovent, Kahr, LaNova, Lightchain Bioscience, Mabwell Therapeutics, Mabworks, Novimmune, OSE Immunotherapeutics, Pfizer (through its acquisition of Trillium Therapeutics), Phanes, Pyxis Oncology (through its acquisition of Apexigen), Shandong New Time, Shattuck Labs, Sorrento Therapeutics, Sumgen, SunHo Pharmaceutical, TG Therapeutics, Waterstone, and Zai Lab, among others, are developing or have begun development of drugs targeting the CD47 pathway that may have utility for the treatment of indications that we are targeting. Potential competitors also include academic institutions, government agencies and other public and private research organizations that conduct research, seek patent protection and establish collaborative arrangements for research, development, manufacturing and commercialization.

Many of the companies against which we are competing or against which we may compete in the future have significantly greater financial resources and expertise in research and development, manufacturing, preclinical testing, conducting clinical trials, obtaining regulatory approvals and marketing approved drugs than we do. Mergers and acquisitions in the pharmaceutical and biotechnology industries may result in even more resources being concentrated among a smaller number of our competitors. Smaller or early-stage companies may also prove to be significant competitors, particularly through collaborative arrangements with large and established companies. These competitors also compete with us in recruiting and retaining qualified scientific and management personnel, in establishing clinical trial sites and enrolling subjects for our clinical trials and in acquiring technologies complementary to, or necessary for, our programs.

We could see a reduction or elimination of our commercial opportunity if our competitors develop and commercialize products that are safer, more effective, have fewer or less severe side effects, are more convenient or are less expensive than any products that we or our collaborators may develop. Our competitors also may obtain FDA or foreign regulatory approval for their products more rapidly than we may obtain approval for ours, which could result in our competitors establishing a strong market position before we are able to enter the market. The key competitive factors affecting the success of all our product candidates, if approved, are likely to be their efficacy, safety, convenience and price, the level of biosimilar or generic competition and the availability of reimbursement from government and other third-party payors.

## **Government Regulation**

In the United States, the FDA, regulates biologic products under the Food, Drug, and Cosmetic Act, or FDCA, and Public Health Service Act, or PHSA. Biologic products and substances are subject to other federal, state and local statutes and regulations. The process of obtaining regulatory approvals and the subsequent compliance with appropriate federal, state, local and foreign statutes and regulations requires the expenditure of substantial time and financial resources. Failure to comply with the applicable U.S. requirements at any time during the product development process, approval process or post-market may subject an applicant to administrative or judicial sanctions. These sanctions could include, among other actions, the FDA's refusal to approve pending applications, withdrawal of an approval, a clinical hold, untitled or warning letters, product recalls or market withdrawals, product seizures, total or partial suspension of production or distribution, injunctions, fines, refusals of government contracts, restitution, disgorgement and civil or criminal penalties. Any agency or judicial enforcement action could have a material adverse effect on us.

The FDA and other regulatory authorities at federal, state and local levels, as well as in foreign countries, extensively regulate, among other things, the research, development, testing, manufacture, quality control, import, export, safety, effectiveness, labeling, packaging, storage, distribution, record keeping, approval, advertising, promotion, marketing, post-approval monitoring and post approval reporting of biologics such as those we are developing. We, along with third-party contractors, will be required to navigate the various preclinical, clinical and commercial approval requirements of the governing regulatory agencies of the countries in which we wish to conduct studies or seek approval or licensure of our product candidates.

## ***U.S. Biologics Regulation***

Any future product candidates must be approved by the FDA through the BLA process before they may be legally marketed in the United States.

The process generally involves the following:

- Completion of extensive preclinical laboratory tests and animal studies performed in accordance with the FDA's current Good Laboratory Practices, or GLP, regulation.
- Submission to the FDA of an investigational new drug, or IND, application, which must become effective before clinical trials may begin and must be updated annually or when significant changes are made.

- Approval by an independent institutional review board, or IRB, or ethics committee at each clinical site before the trial is commenced.
- Performance of adequate and well-controlled human clinical trials in accordance with the applicable IND regulations, good clinical practice, or GCP, requirements to establish the safety, purity and potency (*i.e.*, safety and effectiveness) of the proposed biologic product candidate for its intended purpose.
- Compliance with PREA, BPCA and FDARA regarding development of certain molecularly targeted oncology drugs for pediatric use.
- Preparation of and submission to the FDA of a BLA after completion of all pivotal clinical trials.
- A determination by the FDA within 60 days of its receipt of a BLA to file the application for review.
- Satisfactory completion of any FDA audit of preclinical studies and/or clinical trial sites that generated the data in support of the BLA.
- Satisfactory completion of an FDA pre-approval inspection of the manufacturing facility or facilities at which the proposed product is produced to assess compliance with cGMPs, and to assure that the facilities, methods and controls are adequate to preserve the biological product's continued safety, purity and potency, and of selected clinical investigation sites to assess compliance with GCPs.
- Satisfactory completion of an FDA Advisory Committee review, if applicable.
- FDA review and approval of a BLA to permit commercial marketing of the product for particular indications for use in the United States.
- FDA review and approval of the combination partner NDA/BLA to address any necessary cross-labeling requirements to permit commercial marketing of the combination product for the particular indications for use in the United States.
- Compliance with any post-approval requirements, including the potential requirement to implement a Risk Evaluation and Mitigation Strategy, or REMS, and the potential requirement to conduct post-approval studies.

### ***Preclinical and Clinical Development***

The data required to support a BLA are generated in two distinct developmental stages: preclinical and clinical. The preclinical and clinical testing and approval process require substantial time, effort and financial resources, and we cannot be certain that any approvals for any future product candidates will be granted on a timely basis, or at all.

The preclinical developmental stage generally involves laboratory evaluations of product chemistry, formulation and stability, as well as studies to evaluate toxicity in animals, including pharmacology, PK, toxicokinetic and metabolism studies, that support subsequent clinical testing in humans. The sponsor must submit the results of the preclinical studies, together with manufacturing information, analytical data, any available clinical data or literature and a proposed clinical protocol, to the FDA as part of the IND. Preclinical studies include laboratory evaluation of product chemistry and formulation, as well as *in vitro* and animal studies to assess the potential for adverse events and in some cases to establish a rationale for therapeutic use. The conduct of preclinical studies is subject to federal regulations and requirements, including GLP regulations for safety/toxicology studies.

Prior to beginning the first clinical trial with a product candidate, we must submit an IND to the FDA. An IND is a request for authorization from the FDA to administer an investigational new biopharmaceutical product to humans.

The central focus of an IND submission is on the general investigational plan and the protocol(s) for clinical trials. An IND must become effective before human clinical trials may begin. The IND automatically becomes effective 30 days after receipt by the FDA, unless before that time the FDA raises any concerns or questions about the proposed clinical trial(s) and places the trial(s) on clinical hold. In such a case, the IND may be placed on clinical hold and the IND sponsor and the FDA must resolve any outstanding concerns or questions before the clinical trial can begin. Submission of an IND therefore may or may not result in FDA authorization to begin a clinical trial.

Clinical trials involve the administration of the investigational product to human subjects under the supervision of qualified investigators in accordance with GCPs, which include the requirement that all research subjects provide their informed consent for their participation in any clinical trial. Clinical trials are conducted under protocols detailing, among other things, the objectives of the clinical trial, dosing procedures, subject selection and exclusion criteria and the parameters to be used to monitor subject safety and assess efficacy. Each protocol, and any subsequent amendments to the protocol, must be submitted to the FDA as part of the IND. Furthermore, an independent IRB for each site proposing to conduct the clinical trial must review and approve the plan for any clinical trial and its informed consent form before the clinical trial begins at that site and must monitor the trial until completed. Regulatory authorities, the IRB, or the sponsor may suspend a clinical trial at any time on various grounds, including a finding that the subjects are being exposed to an unacceptable health risk or that the trial is unlikely to meet its stated objectives. Some trials also include oversight by an independent group of qualified experts organized by the clinical trial sponsor, known as a data safety monitoring board, which provides authorization for whether or not a trial may move forward at designated check points based on access to certain data from the trial and may halt the clinical trial if it determines that there is an unacceptable safety risk for subjects or other grounds, such as no demonstration of efficacy. There are also requirements governing the reporting of ongoing preclinical studies and clinical trials and clinical trial results to public registries.

A sponsor who wishes to conduct a clinical trial outside of the United States may, but need not, obtain FDA authorization to conduct the clinical trial under an IND. If a foreign clinical trial is not conducted under an IND, the sponsor may submit data from the clinical trial to the FDA in support of a BLA. The FDA will accept a well-designed and well-conducted foreign clinical trial not conducted under an IND if the trial was conducted in accordance with GCP requirements, the clinical data are relevant to the US patient population in terms of medical practice, standard of care, and patient population definition, and the FDA is able to validate the data through an onsite inspection if deemed necessary.

For purposes of BLA approval, human clinical trials are typically conducted in three sequential phases that may overlap.

- Phase 1. For biologics being studied in oncology indications, the investigational product is initially introduced into patients with the target disease or condition. These trials are generally designed to test the safety, dosage tolerance, absorption, metabolism and distribution of the investigational product in humans, to identify possible side effects associated with increasing doses, and, if possible, to gain early evidence on effectiveness.
- Phase 2. The investigational product is administered to a limited patient population with a specified disease or condition to evaluate the preliminary efficacy, optimal dosages and dosing schedule and to identify possible adverse side effects and safety risks and additional information on PK and PD. Multiple Phase 2 clinical trials may be conducted to obtain information prior to beginning larger and more expensive Phase 3 clinical trials.
- Phase 3. The investigational product is administered to an expanded patient population to further evaluate dosage, to provide statistically significant evidence of clinical efficacy and to further test for safety, purity and potency for an intended use, and generally at multiple geographically dispersed clinical trial sites. These clinical trials are intended to establish the overall risk/benefit ratio of the investigational product and to provide an adequate basis for product approval. These trials may include comparisons with placebo and/or other comparator treatments.

In some cases, the FDA may require, or companies may voluntarily pursue, additional clinical trials after a product is approved to gain more information about the product. These so-called Phase 4 trials may be made a condition to approval of the BLA. Concurrent with clinical trials, companies may complete additional animal studies and develop additional information about the biological characteristics of the product candidate and must finalize a process for manufacturing the product in commercial quantities in accordance with cGMP requirements. The manufacturing process must be capable of consistently producing quality batches of the product candidate and, among other things, must develop methods for testing the identity, strength, quality and purity of the final product, or for biologics, the safety, purity and potency. Additionally, appropriate packaging must be selected and tested and stability studies must be conducted to demonstrate that the product candidate does not undergo unacceptable deterioration over its shelf life.

### ***BLA Submission and Review***

Assuming successful completion of all required testing in accordance with all applicable regulatory requirements, the results of product development, nonclinical studies and clinical trials are submitted to the FDA as part of a BLA requesting approval to market the product for one or more indications. The BLA must include all relevant data available from pertinent preclinical studies and clinical trials, including negative or ambiguous results as well as positive findings, together with detailed information relating to the product's chemistry, manufacturing, controls and proposed labeling, among other things. The submission of a BLA requires payment of a substantial application user fee to the FDA, unless a waiver or exemption applies.

Once a BLA has been submitted, the FDA's goal is to review standard applications within ten months after it accepts the application for filing, or, if the application qualifies for priority review, six months after the FDA accepts the application for filing. In both standard and priority reviews, the review process is often significantly extended by FDA requests for additional information or clarification. The FDA reviews a BLA to determine, among other things, whether a product is safe, pure and potent and the facility in which it is manufactured, processed, packed or held meets standards designed to assure the product's continued safety, purity and potency. The FDA may convene an advisory committee to provide clinical insight on application review questions. Before approving a BLA, the FDA will typically inspect the facility or facilities where the product is manufactured. The FDA will not approve an application unless it determines that the manufacturing processes and facilities are in compliance with cGMP requirements and adequate to assure consistent production of the product within required specifications.

Additionally, before approving a BLA, the FDA will typically inspect one or more clinical sites to assure compliance with GCPs. If the FDA determines that the application, manufacturing process or manufacturing facilities are not acceptable, it will outline the deficiencies in the submission and often will request additional testing or information. Notwithstanding the submission of any requested additional information, the FDA ultimately may decide that the application does not satisfy the regulatory criteria for approval.

After the FDA evaluates a BLA and conducts inspections of manufacturing facilities where the investigational product and/or its biopharmaceutical substance will be produced, the FDA may issue an approval letter or a Complete Response letter. An approval letter authorizes commercial marketing of the product with specific prescribing information for specific indications. A Complete Response letter will describe all of the deficiencies that the FDA has identified in the BLA, except that where the FDA determines that the data supporting the application are inadequate to support approval, the FDA may issue the Complete Response letter without first conducting required inspections, testing submitted product lots and/or reviewing proposed labeling. In issuing the Complete Response letter, the FDA may recommend actions that the applicant might take to place the BLA in condition for approval, including requests for additional information or clarification. The FDA may delay or refuse approval of a BLA if applicable regulatory criteria are not satisfied, require additional testing or information and/or require post-marketing testing and surveillance to monitor safety or efficacy of a product.

If regulatory approval of a product is granted, such approval will be granted for particular indications and may entail limitations on the indicated uses for which such product may be marketed. For example, the FDA may approve the BLA with a Risk Evaluation and Management Strategy (REMS) to ensure the benefits of the product outweigh its risks. A REMS is a safety strategy to manage a known or potential serious risk associated with a product and to enable patients to have continued access to such medicines by managing their safe use, and could include medication guides, physician communication plans, or elements to assure safe use, such as restricted distribution methods, patient registries and other risk minimization tools. The FDA also may condition approval on, among other things, changes to proposed labeling or the development of adequate controls and specifications. Once approved, the FDA may withdraw the product approval if compliance with pre- and post-marketing requirements is not maintained or if problems occur after the product reaches the marketplace. The FDA may require one or more Phase 4 post-market trials and surveillance to further assess and monitor the product's safety and effectiveness after commercialization and may limit further marketing of the product based on the results of these post-marketing studies.

### ***Expedited Development and Review Programs***

The FDA offers a number of expedited development and review programs for qualifying product candidates. The Fast Track program is intended to expedite or facilitate the process for reviewing new products that meet certain criteria. Specifically, new products are eligible for Fast Track designation if they are intended to treat patients with a serious or life-threatening disease or condition and demonstrate the potential to address unmet medical needs for the disease or condition. Fast Track designation applies to the combination of the product and the specific indication for which it is being studied. The sponsor of a Fast Track product has opportunities for frequent interactions with the review team during product development and, once a BLA is submitted, the product may be eligible for priority review. A Fast Track product may also be eligible for rolling review, where the FDA may consider for review sections of the BLA on a rolling basis before the complete application is submitted, if the sponsor provides a schedule for the submission of the sections of the BLA, the FDA agrees to accept sections of the BLA and determines that the schedule is acceptable, and the sponsor pays any required user fees upon submission of the first section of the BLA.

A product intended to treat patients with a serious or life-threatening disease or condition may also be eligible for breakthrough therapy designation to expedite its development and review. A product can receive breakthrough therapy designation if preliminary clinical evidence indicates that the product, alone or in combination with one or more other drugs or biologics, may demonstrate substantial improvement over existing therapies on one or more clinically significant endpoints, such as substantial treatment effects observed early in clinical development. The designation includes all of the Fast Track program features, as well as more intensive FDA interaction and guidance beginning as early as Phase 1 and an organizational commitment to expedite the development and review of the product, including involvement of senior managers.



Any marketing application for a biologic submitted to the FDA for approval, including a product with a Fast Track designation and/or breakthrough therapy designation, may be eligible for other types of FDA programs intended to expedite the FDA review and approval process, such as priority review and accelerated approval. A product is eligible for priority review if it has the potential to provide a significant improvement in the treatment, diagnosis or prevention of a serious disease or condition. For original BLAs, priority review designation means the FDA's goal is to take action on the marketing application within six months of the 60-day filing date (as compared to ten months under standard review).

Additionally, products studied for their safety and effectiveness in treating patients with serious or life-threatening diseases or conditions may receive accelerated approval upon a determination that the product has an effect on a surrogate endpoint that is reasonably likely to predict clinical benefit, or on a clinical endpoint that can be measured earlier than irreversible morbidity or mortality, that is reasonably likely to predict an effect on irreversible morbidity or mortality or other clinical benefit, taking into account the severity, rarity, or prevalence of the condition and the availability or lack of alternative treatments. As a condition of accelerated approval, the FDA will generally require the sponsor to perform adequate and well-controlled post-marketing clinical trials to verify and describe the anticipated effect on irreversible morbidity or mortality or other clinical benefit. In addition, the FDA currently requires as a condition for accelerated approval preapproval of promotional materials, which could adversely impact the timing of the commercial launch of the product. The Food and Drug Omnibus Reform Act made several changes to the FDA's authorities and its regulatory framework, including, among other changes, reforms to the accelerated approval pathway, such as requiring the FDA to specify conditions for post-approval study requirements and setting forth procedures for the FDA to withdraw a product on an expedited basis for non-compliance with post-approval requirements.

Fast track designation, breakthrough therapy designation and priority review do not change the standards for approval but may expedite the development or approval process. Even if a product qualifies for one or more of these programs, the FDA may later decide that the product no longer meets the conditions for qualification or decide that the time period for FDA review or approval will not be shortened.

### ***Orphan Drug Designation***

Under the Orphan Drug Act, the FDA may grant orphan designation to a drug or biologic intended to treat patients with a rare disease or condition, which is a disease or condition that affects fewer than 200,000 individuals in the United States, or more than 200,000 individuals in the United States for which there is no reasonable expectation that the cost of developing and making available in the United States a drug or biologic for this type of disease or condition will be recovered from sales in the United States for that drug or biologic. Orphan drug designation must be requested before submitting a BLA. After the FDA grants orphan drug designation, the generic identity of the therapeutic agent and its potential orphan use are disclosed publicly by the FDA. The orphan drug designation does not convey any advantage in, or shorten the duration of, the regulatory review or approval process.

If a product that has orphan drug designation subsequently receives the first FDA approval for the disease for which it has such designation, the product is entitled to orphan drug exclusive approval (or exclusivity), which means that the FDA may not approve any other applications, including a full BLA, to market the same biologic for the same indication for seven years, except in limited circumstances, such as a showing of clinical superiority to the product with orphan drug exclusivity or if the FDA finds that the holder of the orphan drug exclusivity has not shown that it can assure the availability of sufficient quantities of the orphan drug to meet the needs of patients with the disease or condition for which the drug was designated. Orphan drug exclusivity does not prevent the FDA from approving a different drug or biologic for the same disease or condition, or the same drug or biologic for a different disease or condition. Among the other benefits of orphan drug designation are tax credits for certain research and a waiver of the BLA application fee.

A designated orphan drug may not receive orphan drug exclusivity if it is approved for a use that is broader than the indication for which it received orphan designation. In addition, exclusive marketing rights in the United States may be lost if the FDA later determines that the request for designation was materially defective or if the manufacturer is unable to assure sufficient quantities of the product to meet the needs of patients with the rare disease or condition.

In a 2021 court case, the court expanded the scope of orphan drug exclusivity by finding that orphan drug exclusivity applies to all uses or indications within an entire disease or condition. This position was in contrast to the FDA's longstanding view which ties the scope of orphan drug exclusivity to the uses or indications for which a drug is approved, and thus permits other sponsors to obtain approval of a drug for new uses or indications within the same orphan designated disease or condition that have not yet been approved. Following the case, the FDA has indicated that while the agency complies with the court's order it intends to continue taking a more limited view of orphan designation. As a result, it is unclear how future litigation, legislation, agency decisions, and administrative actions will impact the scope of the orphan drug exclusivity.



### ***Post-Approval Requirements***

Any products manufactured or distributed by us pursuant to FDA approvals are subject to pervasive and continuing regulation by the FDA, including, among other things, requirements relating to facility registration, biopharmaceutical product listing, record-keeping, reporting of adverse experiences, periodic reporting, product sampling and distribution and advertising and promotion of the product. After approval, most changes to the approved product, such as adding new indications or other labeling claims, are subject to prior FDA review and approval. There also are continuing user fee requirements, under which the FDA assesses an annual program fee for each product identified in an approved BLA. Biologic manufacturers and their subcontractors are required to register their establishments with the FDA and certain state agencies and are subject to periodic unannounced inspections by the FDA and certain state agencies for compliance with cGMPs, which impose certain procedural and documentation requirements upon us and our third-party manufacturers. Changes to the manufacturing process are strictly regulated, and, depending on the significance of the change, may require prior FDA approval before being implemented. FDA regulations also require investigation and correction of any deviations from cGMPs and impose reporting requirements upon us and any third-party manufacturers that we may decide to use. Accordingly, manufacturers must continue to expend time, money and effort in the area of production and quality control to maintain compliance with cGMPs and other aspects of regulatory compliance. Further, if there are any modifications to the drug or biologic, including changes in indications, labeling or manufacturing processes or facilities, the applicant may be required to submit and obtain FDA approval of a new BLA or a supplement submission, which may require the development of additional preclinical studies, clinical trials, data and/or assays, such as comparability protocols.

The FDA may withdraw approval if compliance with regulatory requirements and standards is not maintained or if problems occur after the product reaches the market. Later discovery of previously unknown problems with a product, including adverse events of unanticipated severity or frequency, or with manufacturing processes, or failure to comply with regulatory requirements, may result in revisions to the approved labeling to add new safety information; imposition of post-market studies or clinical trials to assess new safety risks; or imposition of distribution restrictions or other restrictions under a REMS program. Other potential consequences include, among other things:

- Restrictions on the marketing or manufacturing of a product, complete withdrawal of the product from the market or product recalls.
- Fines, warning letters or holds on post-approval clinical trials.
- Refusal of the FDA to approve pending applications or supplements to approved applications, or suspension or revocation of existing product approvals.
- Product seizure or detention, or refusal of the FDA to permit the import or export of products.
- Consent decrees, corporate integrity agreements, debarment or exclusion from federal healthcare programs.
- Mandated modification of promotional materials and labeling and the issuance of corrective information.
- The issuance of safety alerts, Dear Healthcare Provider letters, press releases and other communications containing warnings or other safety information about the product.
- Injunctions or the imposition of civil or criminal penalties.

The FDA closely regulates the marketing, labeling, advertising and promotion of biologics. A company can make only those claims relating to safety and efficacy, purity and potency that are approved by the FDA and in accordance with the provisions of the approved label. The FDA and other agencies actively enforce the laws and regulations prohibiting the promotion of off-label uses.

Failure to comply with these requirements can result in, among other things, adverse publicity, warning letters, corrective advertising and potential civil and criminal penalties. Physicians may prescribe legally available products for uses that are not described in the product's labeling and that differ from those tested by us and approved by the FDA. Physicians may believe that such off-label uses are the best treatment for many patients in varied circumstances. The FDA does not regulate the behavior of physicians in their choice of treatments. The FDA does, however, restrict manufacturer's communications on the subject of off-label use of their products.

### ***Biosimilars and Reference Product Exclusivity***

The Patient Protection and Affordable Care Act, or ACA, includes a subtitle called the Biologics Price Competition and Innovation Act of 2009, or BPCIA, which created an abbreviated approval pathway for biological products that are biosimilar to or interchangeable with an FDA approved reference biological product.

Biosimilarity, which requires that there be no clinically meaningful differences between the biological product and the reference product in terms of safety, purity and potency, can be shown through analytical studies, animal studies and a clinical trial or trials. Interchangeability requires that a product is biosimilar to the reference product and the product must demonstrate that it can be expected to produce the same clinical results as the reference product in any given patient and, for products that are administered multiple times to an individual, the biologic and the reference biologic may be alternated or switched after one has been previously administered without increasing safety risks or risks of diminished efficacy relative to exclusive use of the reference biologic.

Under the BPCIA, an application for a biosimilar product may not be submitted to the FDA until four years following the date that the reference product was first licensed by the FDA. In addition, the approval of a biosimilar product may not be made effective by the FDA until 12 years from the date on which the reference product was first licensed. During this 12-year period of exclusivity, another company may still market a competing version of the reference product if the FDA approves a full BLA for the competing product containing that applicant's own preclinical data and data from adequate and well-controlled clinical trials to demonstrate the safety, purity and potency of its product. The BPCIA also created certain exclusivity periods for biosimilars approved as interchangeable products. At this juncture, it is unclear whether products deemed "interchangeable" by the FDA will, in fact, be readily substituted by pharmacies, which are governed by state pharmacy law. Additionally, prescribing physicians are free to specify "Do Not Substitute" in prescriptions, which would prohibit pharmacists from substituting a branded biologic product for a biosimilar product.

The BPCIA is complex and continues to be interpreted and implemented by the FDA. In addition, government proposals have sought to reduce the 12-year reference product exclusivity period. Other aspects of the BPCIA, some of which may impact the BPCIA exclusivity provisions, have also been the subject of recent litigation. As a result, the ultimate impact, implementation and impact of the BPCIA are subject to uncertainty.

### ***Government Regulation Outside of the United States***

In addition to regulations in the United States, we are subject to a variety of regulations in other jurisdictions where we seek to commercialize any of our product candidates, including countries in Europe and Asia. Such foreign regulations govern, among other things, research and development, clinical trials, testing, manufacturing, safety, efficacy, labeling, packaging, storage, record keeping, distribution, reporting, advertising and other promotional practices involving biological products as well as authorization and approval of our product candidates. Because biologically sourced raw materials are subject to unique contamination risks, their use may be restricted in some countries.

Whether or not we obtain FDA approval for a product candidate, we must obtain the requisite approvals from regulatory authorities in foreign countries prior to the commencement of a clinical trial or marketing of a product in those countries. Certain countries outside of the United States have a similar approval process that requires the submission of a clinical trial application, or CTA, much like the IND prior to the commencement of human clinical trials. In the European Union, for example, a CTA must be submitted for each clinical trial to each country's national health authority and an independent ethics committee, much like the FDA and an IRB, respectively. Once the CTA is approved in accordance with a country's requirements, the corresponding clinical trial may proceed. The requirements and process governing the conduct of clinical trials, product licensing, pricing and reimbursement vary from country to country. In all cases, the clinical trials must be conducted in accordance with GCP requirements, applicable regulatory requirements and the ethical principles that have their origin in the Declaration of Helsinki.

### ***European Union Drug Development***

Similar to the United States, the various phases of preclinical and clinical research in the European Union are subject to significant regulatory controls. Although the E.U. Clinical Trials Directive 2001/20/EC has sought to harmonize the E.U. clinical trials regulatory framework, setting out common rules for the control and authorization of clinical trials in the European Union, the E.U. Member States have transposed and applied the provisions of the Directive differently. This has led to significant variations in the member state regimes. Under the current regime, before a clinical trial can be initiated, it must be approved in each of the E.U. countries where the trial is to be conducted by two distinct bodies: the National Competent Authority (NCA) and one or more Ethics Committees (ECs). Under the current regime, all suspected unexpected serious adverse reactions to the investigated drug that occur during the clinical trial have to be reported to the NCA and ECs of the Member State where they occurred. Recently enacted Clinical Trials Regulation EU No 536/2014 aims at harmonizing and streamlining clinical-trial authorization, simplifying adverse-event reporting procedures, improving the supervision of clinical trials and increasing their transparency.

In the European Economic Area (EEA), which is comprised of the 27 Member States of the European Union (excluding Croatia), Norway, Iceland and Liechtenstein, medicinal products can only be commercialized after obtaining a Marketing Authorization (MA). There are two types of Marketing Authorizations:

- The Community MA is issued by the European Commission through the Centralized Procedure, based on the opinion of the Committee for Medicinal Products for Human Use (CHMP), of the European Medicines Agency (EMA), and is valid throughout the entire territory of the EEA. The Centralized Procedure is mandatory for certain types of products, such as biotechnology medicinal products, orphan medicinal products, advanced-therapy medicines such as gene-therapy, somatic cell-therapy or tissue-engineered medicines and medicinal products containing a new active substance indicated for the treatment of HIV, AIDS, cancer, neurodegenerative disorders, diabetes, auto-immune and other immune dysfunctions and viral diseases. The Centralized Procedure is optional for products containing a new active substance not yet authorized in the EEA, or for products that constitute a significant therapeutic, scientific or technical innovation or for products that are in the interest of public health in the European Union.
- National MAs, which are issued by the competent authorities of the Member States of the EEA and only cover their respective territory, are available for products not falling within the mandatory scope of the Centralized Procedure. Where a product has already been authorized for marketing in a Member State of the EEA, this National MA can be recognized in another Member State through the Mutual Recognition Procedure. If the product has not received a National MA in any Member State at the time of application, it can be approved simultaneously in various Member States through the Decentralized Procedure. Under the Decentralized Procedure an identical dossier is submitted to the competent authorities of each of the Member States in which the MA is sought, one of which is selected by the applicant as the Reference Member State (RMS). The competent authority of the RMS prepares a draft assessment report, a draft summary of the product characteristics (SPC) and a draft of the labeling and package leaflet, which are sent to the other Member States (referred to as the Member States Concerned) for their approval. If the Member States Concerned raise no objections, based on a potential serious risk to public health, to the assessment, SPC, labeling or packaging proposed by the RMS, the product is subsequently granted a national MA in all the Member States (i.e., in the RMS and the Member States Concerned).

Under the above described procedures, before granting the MA, the EMA or the competent authorities of the member states of the EEA make an assessment of the risk-benefit balance of the product on the basis of scientific criteria concerning its quality, safety and efficacy.

### **Other U.S Healthcare Laws and Compliance Requirements**

Biopharmaceutical companies are subject to additional healthcare regulation and enforcement by the federal government and by authorities in the states and foreign jurisdictions in which they conduct their business. Research, manufacturing, sales, promotion and other activities following product approval are subject to regulation by numerous regulatory authorities in the United States in addition to the FDA, including the U.S. Centers for Medicare & Medicaid Services, or CMS, other divisions of the Department of Health and Human Services, the Department of Justice, the Drug Enforcement Administration, the Consumer Product Safety Commission, the Federal Trade Commission, the Occupational Safety & Health Administration, the Environmental Protection Agency, and state and local governments. For example, in the United States, sales, marketing and scientific and educational programs also must comply with state and federal fraud and abuse laws, false claims laws, transparency laws, government price reporting and health information privacy and security laws. These laws include the following:

- The federal Anti-Kickback Statute, which makes it illegal for any person, including a prescription drug manufacturer (or a party acting on its behalf), to knowingly and willfully solicit, receive, offer or pay any remuneration that is intended to induce or reward referrals, including the purchase, recommendation, order or prescription of a particular drug, for which payment may be made under a federal healthcare program, such as Medicare or Medicaid. Moreover, the Patient Protection and Affordable Care Act, as amended by the Health Care and Education Reconciliation Act of 2010, or collectively, the ACA, provides that the government may assert that a claim including items or services resulting from a violation of the federal Anti-Kickback Statute constitutes a false or fraudulent claim for purposes of the civil False Claims Act, or FCA. In addition, the intent standard under the federal Anti-Kickback Statute was amended by the ACA to eliminate the need to prove specific intent and actual knowledge to establish an Anti-Kickback Statute violation.
- The federal civil and criminal false claims, including the FCA that can be enforced by private citizens through civil whistleblower or qui tam actions, prohibit individuals or entities from, among other things, knowingly presenting, or causing to be presented, to the federal government, claims for payment that are false or fraudulent or making a false statement to avoid, decrease or conceal an obligation to pay money to the federal government.

- The civil monetary penalties laws impose penalties against any person or entity that, among other things, is determined to have presented or caused to be presented a claim to a federal healthcare program that the person knows or should know is for an item or service that was not provided as claimed or is false or fraudulent, or offering or transferring remuneration to a federal healthcare beneficiary that a person knows or should know is likely to influence the beneficiary's decision to order or receive items or services reimbursable by the government from a particular provider or supplier.
- The Federal Health Insurance Portability and Accountability Act of 1996, or HIPAA, prohibits, among other things, executing or attempting to execute a scheme to defraud any healthcare benefit program or making false statements relating to healthcare matters. HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act and their implementing regulations, also imposes obligations, including mandatory contractual terms, on certain covered healthcare providers, health plans, and healthcare clearinghouses and their respective business associates that perform services for them that involve the use, or disclosure of, individually identifiable health information as well as their covered subcontractors, with respect to safeguarding the privacy, security and transmission of individually identifiable health information.
- Federal consumer protection and unfair competition laws, which broadly regulate marketplace activities and activities that potentially harm consumers.
- The FDCA, which prohibits, among other things, the adulteration or misbranding of drugs, biologics and medical devices.
- The federal Physician Payments Sunshine Act requires applicable manufacturers of covered drugs, medical devices, biologics and medical supplies for which payment is available under Medicare, Medicaid, or the Children's Health Insurance Program, with specific exceptions, to annually report to CMS information regarding payments and other transfers of value made in the previous year to covered recipients, including physicians (defined to include doctors, dentists, optometrists, podiatrists and chiropractors), certain non-physician healthcare professionals (such as physician assistants and nurse practitioners, among others) and teaching hospitals, as well as information regarding ownership and investment interests held by physicians and their immediate family members.
- The distribution of pharmaceutical products is subject to additional requirements and regulations, including extensive record-keeping, licensing, price reporting, storage and security requirements intended to prevent the unauthorized sale of pharmaceutical products. Pricing and rebate programs must also comply with the Medicaid rebate requirements of the U.S. Omnibus Budget Reconciliation Act of 1990 and more recent requirements in the ACA. If products are made available to authorized users of the Federal Supply Schedule of the General Services Administration, additional laws and requirements apply. For example, products must meet applicable child-resistant packaging requirements under the U.S. Poison Prevention Packaging Act. Manufacturing, sales, promotion and other activities also are potentially subject to federal and state consumer protection and unfair competition laws.
- The Foreign Corrupt Practices Act, or FCPA, prohibits any U.S. individual or business from paying, offering, or authorizing payment or offering of anything of value, directly or indirectly, to any foreign official, political party or candidate for the purpose of influencing any act or decision of the foreign entity in order to assist the individual or business in obtaining or retaining business. The FCPA also obligates companies whose securities are listed in the United States to comply with accounting provisions requiring us to maintain books and records that accurately and fairly reflect all transactions of the corporation, including international subsidiaries, if any, and to devise and maintain an adequate system of internal accounting controls for international operations.
- Analogous state and foreign laws and regulations, such as state anti-kickback, anti-referral and false claims laws, which may apply to sales or marketing arrangements and claims involving healthcare items or services reimbursed by non-governmental third-party payors, including private insurers, state laws that require biotechnology or pharmaceutical companies to comply with the biotechnology or pharmaceutical industry's voluntary compliance guidelines and the relevant compliance guidance promulgated by the federal government and may require drug manufacturers to report certain information related to payments and other transfers of value to physicians and other healthcare providers or marketing expenditures, state laws that require biotechnology companies to report information on the pricing of certain drug products, state and local laws that require the registration of pharmaceutical sales representatives, and state and foreign laws that govern the privacy and security of health information in some circumstances, many of which differ from each other in significant ways and often are not preempted by HIPAA, thus complicating compliance efforts; and state laws related to insurance fraud in the case of claims involving private insurers.



Because of the breadth of these laws and the narrowness of available statutory and regulatory exemptions or safe harbors, it is possible that some of our activities, such as stock-option compensation paid to physicians, could be subject to challenge under one or more of such laws. The growth of our business and sales organization and our expansion outside of the United States may increase the potential of violating these laws or our internal policies and procedures. Any action brought against us for violations of these laws or regulations, even successfully defended, could cause us to incur significant legal expenses and divert our management's attention from the operation of our business. Also, we may be subject to private "qui tam" actions brought by individual whistleblowers on behalf of the federal or state governments. If our operations are found to be in violation of any of the federal, state and foreign laws described above or any other current or future fraud and abuse or other healthcare laws and regulations that apply to us, we may be subject to penalties, including significant civil, criminal and administrative penalties, including damages, fines, disgorgement, imprisonment, exclusion from participation in government funded healthcare programs, such as Medicare and Medicaid, integrity oversight and reporting obligations, contractual damages, reputational harm, diminished profits and future earnings, injunctions, requests for recall, seizure of products, total or partial suspension of production, denial or withdrawal of product approvals or refusal to allow a firm to enter into supply contracts, including government contracts, and we could be required to curtail or cease our operations. Any of the foregoing consequences could seriously harm our business and our financial results.

## **Coverage and Reimbursement**

Significant uncertainty exists as to the coverage and reimbursement status of any product candidates for which we may obtain regulatory approval. In the United States and markets in other countries, sales of any products for which we receive regulatory approval for commercial sale will depend, in part, on the availability of coverage and adequate reimbursement from third-party payors. Third-party payors include government programs such as Medicare or Medicaid, managed care plans, private health insurers and other organizations. These third-party payors may deny coverage or reimbursement for a product or therapy in whole or in part if they determine that the product or therapy was not medically appropriate or necessary. Third-party payors may attempt to control costs by limiting coverage to specific drug products on an approved list, or formulary, which might not include all of the FDA-approved drug products for a particular indication, and by limiting the amount of reimbursement for particular procedures or drug treatments. Additionally, coverage and reimbursement for drug products can differ significantly from payor to payor. The Medicare and Medicaid programs are often used as models by private payors and other governmental payors to develop their coverage and reimbursement policies for drugs and biologics. However, one third-party payor's decision to cover a particular drug product does not ensure that other payors will also provide coverage for the product or will provide coverage at an adequate reimbursement rate.

The cost of pharmaceuticals continues to generate substantial governmental and third-party payor interest. We expect that the pharmaceutical industry will experience pricing pressures due to the trend toward managed healthcare, the increasing influence of managed care organizations and additional legislative proposals. Third-party payors are increasingly challenging the price and examining the medical necessity and cost effectiveness of medical products and services, in addition to their safety and efficacy. We may need to conduct expensive pharmacoeconomic studies in order to demonstrate the medical necessity and cost-effectiveness of our products to obtain third-party payor coverage, in addition to the costs required to obtain the FDA approvals. Our product candidates may not be considered medically necessary or cost-effective. A payor's decision to provide coverage for a drug product does not imply that an adequate reimbursement rate will be approved. Adequate third-party reimbursement may not be available to enable us to maintain price levels sufficient to realize an appropriate return on our investment in product development.

Some third-party payors also require pre-approval of coverage for new or innovative drug therapies before they will reimburse healthcare providers who use such therapies. While we cannot predict whether any proposed cost-containment measures will be adopted or otherwise implemented in the future, these requirements or any announcement or adoption of such proposals could have a material adverse effect on our ability to obtain adequate prices for our product candidates and to operate profitably. In international markets, reimbursement and healthcare payment systems vary significantly by country, and many countries have instituted price ceilings on specific products and therapies. There can be no assurance that our products will be considered medically reasonable and necessary for a specific indication, that our products will be considered cost-effective by third-party payors, that coverage or an adequate level of reimbursement will be available or that third-party payors' reimbursement policies will not adversely affect our ability to sell our products profitably.

## **Other Healthcare Laws**

### ***U.S. Healthcare Reform***

The United States and some foreign jurisdictions are considering or have enacted a number of reform proposals to change the healthcare system. There is significant interest in promoting changes in healthcare systems with the stated goals of containing healthcare costs, improving quality or expanding access. In the United States, the pharmaceutical industry has been a particular focus of these efforts and has been significantly affected by federal and state legislative initiatives, including those designed to limit the pricing, coverage and reimbursement of pharmaceutical and biopharmaceutical products, especially under government-funded healthcare programs, and increased governmental control of drug pricing.



The ACA, which was enacted in March 2010, substantially changed the way healthcare is financed by both governmental and private insurers in the United States, and significantly affected the pharmaceutical industry. The ACA contains a number of provisions of particular import to the pharmaceutical and biotechnology industries, including, but not limited to, those governing enrollment in federal healthcare programs, a new methodology by which rebates owed by manufacturers under the Medicaid Drug Rebate Program are calculated for drugs that are inhaled, infused, instilled, implanted or injected, a new licensure framework for follow on biologic products, and annual fees based on pharmaceutical companies' share of sales to federal health care programs. In January 2013, President Obama signed into law the American Taxpayer Relief Act of 2012, which, among other things, reduced Medicare payments to several providers, and increased the statute of limitations period for the government to recover overpayments to providers from three to five years.

The Bipartisan Budget Act of 2018, or BBA, among other things, amended the ACA, effective January 1, 2019, to close the coverage gap in most Medicare Part D drug plans. In December 2018, CMS published a new final rule permitting further collections and payments to and from certain ACA-qualified health plans and health insurance issuers under the ACA risk adjustment program in response to the outcome of federal district court litigation regarding the method CMS uses to determine this risk adjustment. However, on April 27, 2020, the U.S. Supreme Court reversed a Federal Circuit decision that previously upheld Congress' denial of \$12 billion in "risk corridor" funding. There have been legislative and judicial efforts to repeal, replace, or change some or all of the ACA, including measures taken during the Trump administration. In June 2021 the U.S. Supreme Court held that Texas and other challengers had no legal standing to challenge the ACA, dismissing the case on procedural grounds without specifically ruling on the constitutionality of the ACA. Thus, the ACA will remain in effect in its current form. It is possible that the ACA will be subject to judicial or Congressional challenges in the future. It is unclear how any such challenges and healthcare measures promulgated by the Biden administration will impact the ACA, our business, financial condition and results of operations.

Other legislative changes have been proposed and adopted since the ACA was enacted. These changes include aggregate reductions to Medicare payments to providers of up to 2% per fiscal year, effective April 1, 2013, which will stay in effect through 2032, unless additional congressional action is taken. Moreover, there has recently been heightened governmental scrutiny over the manner in which manufacturers set prices for their marketed products, which has resulted in several congressional inquiries and proposed and enacted legislation designed, among other things, to bring more transparency to product pricing, to review the relationship between pricing and manufacturer patient programs, and to reform government program reimbursement methodologies for pharmaceutical products. For example, under the American Rescue Plan Act of 2021, Medicaid statutory rebates are no longer capped at 100% of the average manufacturer price. Elimination of this cap may require pharmaceutical manufacturers to pay more in rebates than it receives on the sale of products, which could have a material impact on our business. In August 2022, Congress passed the Inflation Reduction Act of 2022, which includes prescription drug provisions that have significant implications for the pharmaceutical industry and Medicare beneficiaries, including allowing the federal government to negotiate a maximum fair price for certain high-priced single source Medicare drugs, imposing penalties and excise tax for manufacturers that fail to comply with the drug price negotiation requirements, requiring inflation rebates for all Medicare Part B and Part D drugs, with limited exceptions, if their drug prices increase faster than inflation, and redesigning Medicare Part D to reduce out-of-pocket prescription drug costs for beneficiaries, among other changes. The impact of these legislative, executive, and administrative actions and any future healthcare measures and agency rules implemented by the Biden administration on us and the pharmaceutical industry as a whole is unclear. Various industry stakeholders have initiated lawsuits against the federal government asserting that the price negotiation provisions of the Inflation Reduction Act are unconstitutional. The impact of these judicial challenges and future regulations, healthcare measures and agency rules by the government on us and the pharmaceutical industry as a whole is currently unknown. The implementation of cost containment measures or other healthcare reforms may prevent us from being able to generate revenue, attain profitability, or commercialize our product candidates if approved. Complying with any new legislation and regulatory changes could be time-intensive and expensive, resulting in a material adverse effect on our business. At the state level, legislatures have increasingly passed legislation and implemented regulations designed to control pharmaceutical and biological product pricing, including price or patient reimbursement constraints, discounts, restrictions on certain product access and marketing cost disclosure and transparency measures, and, in some cases, designed to encourage importation from other countries and bulk purchasing. For example, a number of states are considering or have recently enacted state drug price transparency and reporting laws that could substantially increase our compliance burdens and expose us to greater liability under such state laws once we begin commercialization after obtaining regulatory approval for any of our products. FDA recently authorized the state of Florida to import certain prescription drugs from Canada for a period of two years to help reduce drug costs, provided that Florida's Agency for Health Care Administration meets the requirements set forth by the FDA. Other states may follow Florida. We expect that additional state and federal healthcare reform measures will be adopted in the future, any of which could limit the amounts that federal and state governments will pay for healthcare products and services, which could affect the prices we may obtain for any of our product candidates for which we may obtain regulatory approval or the frequency with which any such product candidate, if approved, is prescribed or used.

## **Employees and Human Capital Resources**

As of December 31, 2023, we had 72 employees, 27 of whom hold Ph.D. or M.D. degrees and 59 of whom were engaged in research and development activities. None of our employees are represented by a labor union and we believe we maintain good relations with our employees. We rely on skilled, innovative, and passionate employees to conduct our research, development and business activities. Our employees are united by our goal of developing therapies that help patients fight cancer. Developing a diverse, equitable and inclusive culture is essential to our success and we are committed to building a workplace where all individuals feel welcomed and valued.

The biopharmaceutical industry is highly competitive and recruiting and retaining employees is critical to the continued success of our business. Our human capital resources objectives include, as applicable, identifying, recruiting, retaining, incentivizing and integrating our existing and new employees, advisors and consultants. The principal purposes of our equity and cash incentive plans are to attract, retain and reward personnel through the granting of stock-based and cash-based compensation awards, in order to increase stockholder value and the success of our company by motivating such individuals to perform to the best of their abilities and achieve our objectives. We also offer a collaborative work environment, flexible or remote work arrangements, ongoing professional development opportunities, career advancement opportunities, and a culture that values diversity and inclusion.

## **Corporate Information**

Our predecessor company, ALX Oncology Limited, an Irish private company limited by shares, was initially incorporated in Ireland on March 13, 2015 under the name Alexo Therapeutics Limited and changed its name to ALX Oncology Limited on October 11, 2018. We were then incorporated in Delaware on April 1, 2020 under the name ALX Oncology Holdings Inc. We present the information included in this Annual Report on Form 10-K as that of ALX Oncology Holdings Inc. unless such information refers to a date prior to April 1, 2020, in which case it reflects that of our predecessor company.

Our principal executive offices are located at 323 Allerton Avenue, South San Francisco, California, 94080. Our telephone number is 650-466-7125. Our website address is [alxoncology.com](http://alxoncology.com).

We use ALX Oncology and other marks as trademarks in the United States and other countries. This Annual Report on Form 10-K contains references to our trademarks and service marks and to those belonging to other entities. Solely for convenience, trademarks and trade names referred to in this Annual Report on Form 10-K, including logos, artwork and other visual displays, may appear without the ® or TM symbols, but such references are not intended to indicate in any way that we will not assert, to the fullest extent under applicable law, our rights or the rights of the applicable licensor to these trademarks and trade names. We do not intend our use or display of other entities' trade names, trademarks or service marks to imply a relationship with, or endorsement or sponsorship of us by, any other entity.

## **Available Information**

Our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, proxy and information statements and amendments to reports filed pursuant to Sections 13(a), and 15(d) of the Securities Exchange Act of 1934, as amended (the Exchange Act) are filed with the U.S. Securities and Exchange Commission (SEC). We are subject to the informational requirements of the Exchange Act and file or furnish reports, proxy statements and other information with the SEC. The SEC maintains an Internet site that contains reports, proxy and information statements and other information regarding issuers that file electronically with the SEC at [www.sec.gov](http://www.sec.gov). Such documents and other information filed by us with the SEC are available free of charge on the Investor section of our website ([ir.alxoncology.com](http://ir.alxoncology.com)) when such reports are available on the SEC's website.

Investors and others should note that we may announce material information to the public through filings with the SEC, our website ([alxoncology.com](http://alxoncology.com)), press releases, public conference calls, and public webcasts. We encourage our investors and others to review the information disclosed through such channels as such information could be deemed to be material information. Please note that this list may be updated from time to time.

## Item 1A. Risk Factors.

### RISK FACTORS

*Investing in our common stock involves a high degree of risk. You should carefully consider the risks described below, together with the other information contained elsewhere in this Annual Report on Form 10-K, including our consolidated financial statements and the related notes, Part II, Item 7. “Management’s Discussion and Analysis of Financial Condition and Results of Operations,” and our other filings with the Securities and Exchange Commission, or SEC, before deciding whether to invest in our common stock. The occurrence of any of the events or developments described below could harm our business, financial condition, results of operations and growth prospects. In such an event, the market price of our common stock could decline, and you may lose all or part of your investment. Additional risks and uncertainties not presently known to us or that we currently deem immaterial also may impair our business operations and the market price of our common stock.*

#### Risk Factors Summary

***Investing in our common stock involves a high degree of risk because our business is subject to numerous risks and uncertainties, as fully described below. These risks include, but are not limited to, the following:***

- We have incurred significant net losses since our inception, and we expect to continue to incur significant net losses for the foreseeable future;
- We will require substantial additional capital to finance our operations, such capital may not be available to us when needed or may only be available on terms that are unfavorable to us;
- We have a limited operating history, have no products approved for commercial sale, and have not generated any revenue from product sales, licenses or collaborations;
- We are substantially dependent on the success of our lead product candidate, evorpaccept, also known as ALX 148, which is in clinical development and which has not completed a pivotal trial;
- The outcome of preclinical testing and early clinical trials may not be predictive of the success of later clinical trials, and the results of our clinical trials may not satisfy the requirements of the Food and Drug Administration, or FDA, or other comparable foreign regulatory authorities;
- Clinical trials of our product candidates are expensive, time consuming and difficult to design and implement and may fail to demonstrate adequate safety, efficacy and potency of our product candidates or provide the basis for marketing approval;
- Our product candidates may cause significant adverse events or other undesirable side effects when used alone or in combination with other treatments;
- The regulatory approval processes of the FDA and comparable foreign regulatory authorities are lengthy, time-consuming and inherently unpredictable, which could lead to our inability to generate product revenue;
- If we are unable to obtain, maintain and enforce patent protection and other intellectual property for our product candidates and related technology, our business could be materially harmed;
- We are highly dependent on our key personnel, and if we are not successful in attracting, motivating, and retaining highly qualified personnel, we may not be able to successfully implement our business strategy;
- Our preclinical research for evorpaccept is conducted primarily by a third-party service provider, Tallac Therapeutics, Inc., formerly known as Tollnline, Inc., or Tallac Therapeutics, and we rely on Tallac Therapeutics to perform its contractual research obligations on an effective and timely basis;
- We rely on third-party manufacturers for clinical supplies of our product candidates;
- The levels of our debt and compliance with the terms of our loan agreement could restrict our ability to operate our business;
- The COVID-19 pandemic, geopolitical unrest related to Russia’s war with Ukraine, and war and instability in Israel and the surrounding region could adversely impact our business including our ongoing and planned clinical trials and preclinical research;
- The price of our stock may be volatile, and you could lose all or part of your investment; and

- In the past, we have identified material weaknesses in our internal control over financial reporting, and if we are unable to implement and maintain effective internal control over financial reporting in the future, investors may lose confidence in our financial reports.

### **Risks Related to Our Financial Position and Need for Additional Capital**

***We have incurred significant net losses since our inception, and we expect to continue to incur significant net losses for the foreseeable future.***

We have incurred significant net losses in each reporting period since our inception, have not generated any revenue from product sales, licenses or collaborations to date and have financed our operations principally through public offerings of our common stock and private placements of our convertible preferred stock. Our net losses were \$160.8 million, \$123.5 million and \$83.5 million for the years ended December 31, 2023, 2022 and 2021, respectively. As of December 31, 2023, we had an accumulated deficit of \$486.3 million. We have devoted substantially all of our resources and efforts to research and development. Our lead product candidate, evorpcept, is in early-stage clinical trials. Our other programs are in preclinical discovery and research stages. As a result, we expect that it will be several years, if ever, before we have a commercialized product and generate revenue from product sales. Even if we succeed in receiving marketing approval for and commercializing one or more of our product candidates, we expect that we will continue to incur substantial research and development and other expenses in order to discover, develop and market additional potential products.

We expect to continue to incur significant expenses and increasing operating losses for the foreseeable future. The net losses we incur may fluctuate significantly from quarter to quarter such that a period-to-period comparison of our results of operations may not be a good indication of our future performance. The size of our future net losses will depend, in part, on the rate of future growth of our expenses and our ability to generate revenue. Our prior losses and expected future losses have had and will continue to have an adverse effect on our working capital, our ability to fund the development of our product candidates and our ability to achieve and maintain profitability and the performance of our stock.

***We will require substantial additional capital to finance our operations. If we are unable to raise such capital when needed, or on acceptable terms, we may be forced to delay, reduce and/or eliminate one or more of our research and drug development programs or future commercialization efforts.***

Developing pharmaceutical products, including conducting preclinical studies and clinical trials, is a very time-consuming, expensive and uncertain process that takes years to complete. Our operations have consumed substantial amounts of cash since inception, and we expect our expenses to increase in connection with our ongoing activities, particularly as we conduct clinical trials of, and seek marketing approval for, evorpcept and advance our other programs. In addition, if we obtain marketing approval for any of our product candidates, we expect to incur significant commercialization expenses related to drug sales, marketing, manufacturing and distribution activities. Our expenses could increase beyond expectations if we are required by the FDA, the European Medicines Agency, or EMA, or other regulatory agencies to perform clinical trials or preclinical studies in addition to those that we currently anticipate. Other unanticipated costs may also arise. Because the design and outcome of our planned and anticipated clinical trials are highly uncertain, we cannot reasonably estimate the actual amount of resources and funding that will be necessary to successfully complete the development and commercialization of any product candidate we develop. We have incurred and expect to continue to incur additional costs associated with operating as a public company and compliance with legal, accounting and other regulatory requirements. Accordingly, we will need to obtain substantial additional funding in order to maintain our continuing operations. If we are unable to raise capital when needed or on acceptable terms, we may be forced to delay, reduce and/or eliminate one or more of our research and drug development programs or future commercialization efforts. Further, any decline in our stock price or perceived potential decline in our stock price that may be associated with stock market volatility generally, may negatively impact our ability to raise capital.

As of December 31, 2023, we had cash, cash equivalents and investments of \$218.1 million. Based on our current operating plan, we believe that our existing cash, cash equivalents, investments, and ability to draw down an additional \$40 million of our term loan at our discretion, will be sufficient to fund our operations into early 2026. Our estimate as to how long we expect our existing cash, cash equivalents, investments and funds available from our term loan will be sufficient to continue to fund our operations is based on assumptions that may prove to be wrong, and we could use our available capital resources sooner than we currently expect. Changing circumstances, some of which may be beyond our control, such as periods of a rising rate of inflation or economic downturns, could cause us to consume capital significantly faster than we currently anticipate, and we may need to seek additional funds sooner than planned.



We plan to use our cash, cash equivalents and investments to advance the clinical development of evorpcept, as well as for working capital and other general corporate purposes. This may include additional preclinical research, clinical development, hiring additional personnel, capital expenditures, the potential acquisition of businesses or assets and the costs of operating as a public company, as well as for working capital and other general corporate purposes. Advancing the development of evorpcept and our other programs will require a significant amount of capital. Our current cash, cash equivalents and investments on hand, may not be sufficient to fund all of the actions that are necessary to complete the development of evorpcept or our other programs.

We expect to obtain further funding through public or private equity offerings, debt financings, collaborations and licensing arrangements or other sources, which may dilute our stockholders or restrict our operating activities. Other than the loan and security agreement, or Loan Agreement, we entered into with Oxford Finance LLC, Oxford Finance Credit Fund II LP and Silicon Valley Bank, or SVB, collectively, the Lenders, in the fourth quarter of 2022 and most recently amended in December 2023, we do not have any committed external source of funds. SVB was closed in March 2023, and the FDIC was appointed as receiver to SVB. The FDIC created Silicon Valley Bridge Bank, or SVBB, as successor to SVB, which was acquired by First Citizens Bank, and is now operated as a division of First Citizens Bank, or SVB-First Citizens. Adequate additional financing may not be available to us on acceptable terms, or at all. To the extent that we raise additional capital through the sale of equity or convertible debt securities, your ownership interest will be diluted, and the terms may include liquidation or other preferences that adversely affect your rights as a stockholder. Debt financing may result in imposition of debt covenants, increased fixed payment obligations or other restrictions that may affect our business. For example, our Loan Agreement restricts our ability to incur additional indebtedness without the consent of the Lenders. If we raise additional funds through upfront payments or milestone payments pursuant to strategic collaborations with third parties, we may have to relinquish valuable rights to our product candidates or grant licenses on terms that are not favorable to us. In addition, we may seek additional capital due to favorable market conditions or strategic considerations even if we believe we have sufficient funds for our current or future operating plans.

Our failure to raise capital as and when needed would have a negative impact on our financial condition and our ability to pursue our business strategy, and we may have to delay, reduce the scope of, suspend or eliminate one or more of our research-stage programs, clinical trials or future commercialization efforts.

***We have a limited operating history and have no products approved for commercial sale, which may make it difficult for you to evaluate our current business and likelihood of success and viability.***

We are a clinical-stage biopharmaceutical company with a limited operating history upon which you can evaluate our business and prospects. We were incorporated and commenced operations in 2015, have no products approved for commercial sale and have not generated any revenue from product sales, licenses or collaborations. Drug development is a highly uncertain undertaking and involves a substantial degree of risk. Our operations to date have been limited to organizing and staffing our company, business planning, raising capital, identifying and developing potential product candidates and conducting preclinical and clinical trials of our product candidates, including Phase 1 and Phase 2 clinical trials of evorpcept. We have not yet demonstrated our ability to successfully complete any large-scale, pivotal clinical trials, obtain marketing approvals, manufacture a commercial-scale drug or arrange for a third party to do so on our behalf or conduct sales and marketing activities. As a result, it may be more difficult for you to accurately predict our likelihood of success and viability than it could be if we had a longer operating history. In addition, as a business with a limited operating history, we may encounter unforeseen expenses, difficulties, complications, delays and other known and unknown factors and risks frequently experienced by early-stage biopharmaceutical companies in rapidly evolving fields. We also may need to transition from a company with a research focus to a company capable of supporting commercial activities. We have not yet demonstrated an ability to successfully overcome such risks and difficulties or to make such a transition. If we do not adequately address these risks and difficulties or successfully make such a transition, our business will suffer.

***Our ability to generate revenue and achieve profitability depends significantly on our ability to achieve several objectives relating to the discovery, development and commercialization of our product candidates.***

Our business depends entirely on the successful development and commercialization of our product candidates. We currently generate no revenue from any product sales, licenses or collaborations and do not expect to generate any revenue from the sale of product candidates in the foreseeable future. We have no products approved for commercial sale and do not anticipate generating any revenue from product sales for the next several years, if ever. Our ability to generate revenue and achieve profitability depends significantly on our ability to achieve a number of objectives, including:

- successful and timely completion of preclinical and clinical development of our lead product candidate, evorpcept, and our other future product candidates;
- establishing and maintaining relationships with contract research organizations, or CROs, and clinical sites for the clinical development of evorpcept and our other future product candidates;
- timely receipt of marketing approvals from applicable regulatory authorities for any product candidates for which we successfully complete clinical development;
- the extent of any required post-marketing approval commitments to applicable regulatory authorities;



- developing an efficient and scalable manufacturing process for evorpaccept and any future product candidates, including establishing and maintaining commercially viable supply and manufacturing relationships with third parties to obtain finished products that are appropriately packaged for sale;
- establishing and maintaining commercially viable supply and manufacturing relationships with third parties that can provide adequate, in both amount and quality, products and services to support clinical development and meet the market demand for our product candidates, if approved;
- successful commercial launch following any marketing approval, including the development of a commercial infrastructure, whether in-house or with one or more collaborators;
- a continued acceptable safety profile following any marketing approval;
- commercial acceptance of evorpaccept and any future product candidates as viable treatment options by patients, the medical community and third-party payors;
- obtaining favorable coverage and adequate reimbursement by third-party payors for our product candidates;
- addressing any competing therapies and technological and market developments;
- identifying, assessing, acquiring and developing new product candidates;
- obtaining, maintaining and expanding patent protection, trade secret protection and regulatory exclusivity, both in the United States and internationally;
- protecting our rights in our intellectual property portfolio, including our licensed intellectual property;
- defending against third-party interference or infringement claims, if any;
- entering into, on favorable terms, any collaboration, licensing or other arrangements that may be necessary or desirable to develop, manufacture or commercialize our product candidates;
- negotiating favorable terms in any collaboration, licensing or other arrangements that may be necessary to develop, manufacture or commercialize our product candidate; and
- attracting, hiring and retaining qualified personnel.

We may never be successful in achieving our objectives and, even if we do, we may never generate revenue that is significant or large enough to achieve profitability. If we do achieve profitability, we may not be able to sustain or increase profitability on a quarterly or annual basis. Our failure to become and remain profitable would decrease the value of our company and could impair our ability to maintain or further our research and development efforts, raise additional necessary capital, grow our business and/or continue our operations.

***The terms of our Loan Agreement require us to meet certain operating and financial covenants, place restrictions on our operating and financial flexibility, and may subject us to default.***

In October 2022, we entered into the Loan Agreement, most recently amended in December 2023, under which we have borrowed \$10.0 million and we have access to draw an additional \$40.0 million through June 2024 under certain conditions. A further \$50.0 million may become available to us, with \$12.5 million available in each of two tranches based upon the achievement of milestones related to the development of evorpaccept and one preclinical product candidate, and \$25.0 million at the Lenders' sole discretion. The proceeds of the loans may be used by us for working capital and to fund our general business requirements.

The term loans under the Loan Agreement mature on October 1, 2027. The Company will begin to make principal payments in equal monthly installments beginning on December 1, 2025, and if either of the milestone related tranche term loans are funded, then the Company will begin to make principal payments in equal monthly installments beginning on December 1, 2026. The term loans accrue interest at a floating rate as described elsewhere in this report, and interest is payable monthly in arrears. The term loans once repaid or prepaid may not be reborrowed. The term loans may be prepaid in full or in part in increments of \$10.0 million, with various prepayment premiums. Upon the earlier of prepayment or maturity of any term loan, we are required to pay a fee of 6.0% of the original principal amount of such funded term loan, and a contingency fee may apply in connection with a prepayment of such term loan under certain circumstances. We are also obligated to pay other customary fees for a loan facility of this type and size.

The term loans under the Loan Agreement are secured by substantially all of our assets, except our intellectual property, which is the subject of a negative pledge, and will be guaranteed by our future subsidiaries, subject to certain limitations. Upon the outstanding balance of the term loans reaching \$75.0 million or greater, our intellectual property will become collateral.

The Loan Agreement contains customary affirmative and negative covenants, including covenants limiting our ability to, among other things, dispose of assets, effect certain mergers, incur debt, grant liens, pay dividends and distributions on our capital stock, make investments and acquisitions, and enter into transactions with affiliates, in each case subject to customary exceptions for a loan facility of this size and type.

If we default under the Loan Agreement, the Lenders will be able to declare all obligations immediately due and payable and take control of our pledged assets, potentially requiring us to renegotiate our agreement on terms less favorable to us or to immediately cease operations. The events of default under the Loan Agreement include, among others, payment defaults, material misrepresentations, breaches of covenants, cross defaults with certain other material indebtedness, bankruptcy and insolvency events, and judgment defaults. The occurrence of an event of default could result in the acceleration of our obligations under the Loan Agreement, the termination of the Lenders' commitments, a 5.0% increase in the applicable rate of interest and the exercise by the Lender of other rights and remedies provided for under the Loan Agreement. Any declaration by the Lenders of an event of default could significantly harm our business and prospects and could cause the price of our common stock to decline.

### **Risks Related to the Discovery, Development and Commercialization of Our Product Candidates**

***We are substantially dependent on the success of our lead product candidate, evorpaccept, which is in clinical development and which has not completed a pivotal trial. If we do not obtain regulatory approval for and successfully commercialize evorpaccept in one or more indications, or we experience significant delays in doing so, we may never generate any revenue or become profitable.***

We do not have any products that have received regulatory approval and may never be able to develop marketable product candidates. We expect that a substantial portion of our efforts and expenses over the next several years will be devoted to the development of our lead product candidate, evorpaccept, in our ongoing clinical trials. As a result, our business currently depends heavily on the successful development, regulatory approval and, if approved, commercialization of evorpaccept in one or more of these indications, such as head and neck squamous cell carcinoma, or HNSCC, gastric/gastroesophageal junction, or GEJ, carcinoma, urothelial cancer, breast cancer, or multiple myeloma. We cannot be certain that evorpaccept will receive regulatory approval or will be successfully commercialized even if it receives regulatory approval. The research, testing, manufacturing, safety, efficacy and potency, labeling, approval, sale, marketing and distribution of evorpaccept is, and will remain, subject to comprehensive regulation by the FDA and comparable foreign regulatory authorities. Our failure to timely complete clinical trials, obtain regulatory approval or, if approved, commercialize evorpaccept or any of our future product candidates, would materially harm our business, financial condition and results of operations. We are not permitted to market or promote evorpaccept, or any other product candidate, before we receive marketing approval from the FDA and comparable foreign regulatory authorities, and we may never receive such marketing approvals. If we do not receive marketing approvals for evorpaccept, we may not be able to continue our operations.

***The outcome of preclinical testing and early clinical trials may not be predictive of the success of later clinical trials, and the results of our clinical trials may not satisfy the requirements of the FDA or other comparable foreign regulatory authorities. The clinical trials of our product candidates may not produce positive results or demonstrate adequate safety, purity and efficacy and potency to the satisfaction of regulatory authorities.***

Before obtaining marketing approval from regulatory authorities for the sale of our product candidates, we must complete preclinical development and then conduct extensive clinical trials to demonstrate the safety and efficacy/potency of our product candidates. Clinical testing is expensive, difficult to design and implement, can take many years to complete, and its ultimate outcome is uncertain. A failure of one or more clinical trials can occur at any stage of the process. The outcome of preclinical studies and early-stage clinical trials may not be predictive of the success of later clinical trials. Moreover, preclinical and clinical data are often susceptible to varying interpretations and analyses, and many companies that have believed their product candidates performed satisfactorily in preclinical studies and clinical trials have nonetheless failed to obtain approval of their drugs.

Positive or timely results from preclinical or early-stage trials do not ensure positive or timely results in future clinical trials or registrational clinical trials because product candidates in later-stage clinical trials may fail to demonstrate sufficient safety, purity and efficacy and potency to the satisfaction of the FDA or comparable international regulatory authorities, despite having progressed through preclinical studies or initial clinical trials. In addition, the FDA or any comparable international regulatory authorities may conclude that the results from our clinical trials are insufficient to support any accelerated approval that we may seek with respect to evorpaccept or any of our future product candidates in general or with respect to any specific indications. Product candidates that have shown promising results in early clinical trials may still suffer significant setbacks in subsequent clinical trials or registration clinical trials. For example, a number of companies in the pharmaceutical industry, including those with greater resources and experience than us, have suffered significant setbacks in advanced clinical trials, even after obtaining promising results in earlier clinical trials. Additionally, in March 2023, the FDA issued a draft guidance on clinical trial considerations for supporting accelerated approval of oncology therapeutics, noting that although single-arm trials have been commonly used to support accelerated approval, a randomized controlled trial is the preferred approach for providing a more robust efficacy and safety assessment, among other recommendations. To the extent the FDA requires us to collect additional data or to conduct additional clinical trials in accordance with the new guidance, our clinical timelines may be delayed.

***Clinical trials of our product candidates are expensive, time consuming and difficult to design and implement and may fail to demonstrate adequate safety, purity and efficacy and potency of our product candidates or provide the basis for marketing approval.***

Before obtaining marketing approval from regulatory authorities for the sale of our product candidates, we must conduct preclinical development and then extensive clinical trials (including initiation of a pediatric study) to demonstrate their safety, purity and efficacy and potency. Clinical trials are expensive and difficult to design and implement. Clinical trials can take many years to complete, and their ultimate outcome is uncertain. A failure of one or more clinical trials can occur at any stage of the process. We will be required to demonstrate with substantial evidence through well-controlled clinical trials that our product candidates are safe, pure and effective or potent for use in a diverse patient population before we can seek regulatory approvals for their commercial sale. Our clinical trials may produce negative or inconclusive results and we may decide, or regulators may require us, to conduct additional and expansive preclinical or clinical testing.

We do not know whether our future clinical trials will begin or enroll subjects on time or whether our ongoing and/or future clinical trials will be completed on schedule or at all. Clinical trials can be delayed for a variety of reasons, including delays related to:

- obtaining approval to commence a clinical trial;
- reaching agreement on acceptable terms with prospective CROs and clinical trial sites;
- obtaining institutional review board approval at each clinical trial site;
- adding necessary new clinical trial sites;
- recruiting suitable subjects to participate in a trial;
- noncompliance with clinical trial protocols;
- investigational site or trial subjects withdrawing or dropping out of clinical trials at a higher rate than anticipated; and
- manufacturing sufficient quantities of product candidate for use in clinical trials.

We may experience numerous unforeseen events during, or as a result of, clinical trials that could delay or prevent receipt of marketing approval or our ability to commercialize our product candidates, including:

- receipt of feedback from regulatory authorities that requires us to modify the design of our clinical trials;
- negative or inconclusive clinical trial results or interval changes to standards of care for the treatment of specific tumor types that may require us to conduct additional clinical trials or abandon certain drug development programs;
- the number of subjects required for clinical trials is larger than anticipated, enrollment in these clinical trials is slower than anticipated or subjects dropping out of these clinical trials at a higher rate than anticipated;
- delays in clinical trials due to outbreaks or public health crises, such as the COVID-19 pandemic, that impact both trial site operations, subject selection and participation;
- third-party contractors failing to comply with regulatory requirements or meet their contractual obligations to us in a timely manner, or at all;
- the suspension or termination of our clinical trials for various reasons, including non-compliance with regulatory requirements, a finding that our product candidates have undesirable side effects or other unexpected characteristics or risks;
- the cost of clinical trials of our product candidates are greater than anticipated;
- the supply or quality of our product candidates or other materials necessary to conduct clinical trials of our product candidates being insufficient or inadequate; and
- regulators revising the requirements for approving our product candidates.

As a result of any of these delays or other circumstances, we may incur unplanned costs, not obtain or be delayed in obtaining marketing approval, receive more limited or restrictive marketing approval, be subject to additional post-marketing testing requirements or have our drug removed from the market after obtaining marketing approval.

We do not know whether any clinical trials we may conduct will demonstrate consistent or adequate safety and efficacy sufficient to obtain marketing approval of our product candidates or to market our drugs after any such approval.

***We have experienced and, if we continue to experience delays or difficulties in the enrollment of subjects in clinical trials and/or retention of subjects in clinical trials in the future, our regulatory submissions or receipt of necessary marketing approvals could be delayed or prevented.***

We may not be able to initiate or continue clinical trials for our product candidates if we are unable to locate and enroll a sufficient number of eligible subjects to participate in these trials as required by the FDA or comparable international regulatory authorities. Subject enrollment is a significant factor in the timing of clinical trials. In particular, because certain of our clinical trials of evorpacept are focused on indications with small patient populations, our ability to enroll eligible subjects may be limited or may result in slower enrollment than we anticipate.

In the past, clinical trial enrollment and data collection has been adversely impacted by staff shortages, site closures, travel limitations and physical distancing requirements and personal safety concerns resulting from and associated with the COVID-19 pandemic. Going forward we expect to continue to experience some of these clinical trial enrollment difficulties associated with the pandemic. For example, subjects who enroll in our clinical trials and then become infected with the COVID-19 virus may complicate the clinical trial data, procedures and analysis, which could delay the anticipated readouts from our clinical trials and our regulatory submissions and increase the costs associated with clinical trials.

Subject enrollment may also be affected if new standards of care become widely available or our competitors have ongoing competing clinical trials for product candidates that are under development for the same indications as our product candidates, and patients who would otherwise be eligible for our clinical trials instead enroll in clinical trials of our competitors' product candidates. In addition, regulatory requirements governing clinical trials have changed and may continue to change in the future. The timing of our clinical trials depends on our ability to recruit subjects to participate in our studies and changes to regulatory requirements, if any, governing clinical trials may impede our ability to enroll subjects. Subject enrollment may also be affected by other factors, including:

- size and nature of the patient population;
- severity of the disease under investigation;
- availability and efficacy or potency of current or newly approved drugs for the disease under investigation and other changes in standard of care that could make our clinical trials less attractive, including the drugs or other product candidates we use in our combination studies;
- patient eligibility criteria for the trial in question;
- perceived risks and benefits of the product candidate under study;
- efforts to facilitate timely enrollment in clinical trials by us and the clinical trial sites;
- patient referral practices of physicians;
- the ability to monitor subjects adequately during and after the clinical trial;
- proximity of clinical trial sites to prospective subjects;
- risk of subjects enrolled in clinical trials dropping out before completion;
- inability or delay in enrollment of subjects due to a variety of reasons, including outbreaks and public health crises, such as the COVID-19 pandemic;
- an inability to appropriately enroll an ethnically and racially diverse patient population representative of the target patient population;
- non-compliance with regulatory requirements; and
- subjects experiencing severe or unexpected adverse effects related to our product candidates.

Our inability to enroll a sufficient number of subjects in our clinical trials would result in significant delays or may require us to abandon one or more clinical trials altogether. Enrollment delays in our clinical trials may result in increased development costs for our product candidates and jeopardize our ability to obtain marketing approval for the sale of our drugs.

***Interim, topline and preliminary data from our clinical trials that we announce or publish from time to time may change as more subject data become available and are subject to audit and verification procedures that could result in material changes in the final data.***

From time to time, we may publicly disclose preliminary, interim or topline data from our clinical trials such as our October 2023 announcement of interim Phase 2 ASPEN-06 clinical trial results of evorpacept for the treatment of advanced HER2-Positive gastric cancer. These interim updates are based on a preliminary analysis of then-available data, and the results and related findings and conclusions are subject to change following a more comprehensive review of the data related to the particular study or trial. Further, interim, topline and preliminary data include certain assumptions, estimations, calculations and conclusions as part of our analyses of data available at that time, and we may not have received or had the opportunity to evaluate all data fully and carefully. As a result, the topline results that we report may differ from future results of the same trials, or different conclusions or considerations may qualify such results, once additional data have been received and fully evaluated. Topline data also remain subject to audit and verification procedures that may result in the final data being materially different from the preliminary data we previously published. Interim data from clinical trials that we may complete are subject to the risk that one or more of the clinical outcomes may materially change as subject enrollment continues and more subject data become available. Adverse changes between interim data and final data could significantly harm our business and prospects. Further, additional disclosure of interim data by us or by our competitors in the future could result in volatility in the price of our common stock. Some may not agree with what we determine is the material or otherwise appropriate information to include in our disclosure, and any information we determine not to disclose may ultimately be deemed significant with respect to future decisions, conclusions, views, activities or otherwise regarding a particular product candidate or our business. If the preliminary or topline data that we report differ from late, final or actual results, or if others, including regulatory authorities, disagree with the conclusions reached, our ability to obtain approval for product candidates may be harmed, which could harm our business, financial condition, results of operations and prospects.

***Our product candidates may cause significant adverse events, toxicities or other undesirable side effects when used alone or in combination with other approved products or investigational new drugs that may result in a safety profile that could prevent regulatory approval, prevent market acceptance, limit their commercial potential or result in significant negative consequences.***

If evorpacept or any of our other product candidates are associated with undesirable side effects or have unexpected characteristics in preclinical studies or clinical trials when used alone or in combination with other approved products or investigational new drugs we may need to interrupt, delay or abandon their development or limit development to more narrow uses or subpopulations in which the undesirable side effects or other characteristics are less prevalent, less severe or more acceptable from a risk-benefit perspective. For example, we have observed single-digit incident rates of treatment-related grade three and higher cytopenias across our clinical program in a heavily pre-treated group of subjects who are typical participants in early-stage cancer trials and are often hematologically fragile at baseline. Subjects in our evorpacept combination clinical trials experienced a number of treatment-related adverse events that were mostly low-grade and manageable, including fatigue, rash, aspartate aminotransferase, or AST, increase, platelets decrease, alanine aminotransferase, or ALT, increase, pruritus, pyrexia, decreased appetite, anemia, infusion reaction, neutropenia, nausea, alkaline phosphate increase, arthralgia, white blood cell decrease and myalgia. Treatment-related side effects could also affect subject recruitment or the ability of enrolled subjects to complete the trial or result in potential product liability claims. Any adverse events as a result of evorpacept or any of our future product candidates, including in combination with therapy, may prevent us from achieving or maintaining market acceptance of the affected product candidate and may harm our business, financial condition and prospects significantly.

***We face substantial competition which may result in others discovering, developing or commercializing products before or more successfully than we do.***

The development and commercialization of new product candidates is highly competitive. We face competition with respect to evorpacept and will face competition with respect to any product candidates that we may seek to develop or commercialize in the future, from major pharmaceutical, specialty pharmaceutical and biotechnology companies among others. We compete in the segments of the pharmaceutical, biotechnology and other related markets that develop immuno-oncology therapies for the treatment of cancer. There are other companies working to develop immuno-oncology therapies for the treatment of cancer including divisions of large pharmaceutical and biotechnology companies of various sizes. The large pharmaceutical and biotechnology companies that have commercialized and/or are developing immuno-oncology treatments for cancer include AstraZeneca, Bristol Myers Squibb, Gilead Sciences, Merck, Novartis, Pfizer and Roche/Genentech. Newly approved therapeutics could change the treatment paradigm or standard of care, which could negatively impact the design of our clinical trials and the prospects of our product candidates.



Some of these competitive products and therapies are based on scientific approaches that are the same as or similar to our approach, including with respect to the targeting of the CD47 pathway and others are based on entirely different approaches. We are aware that Adagene, Akesobio, Bio-Thera Solutions, Boehringer Ingelheim, Bristol Myers Squibb, Byondis, Centessa, Conjupro Biotherapeutics, CTTQ (SinoBiological), Daiichi Sankyo, Exelixis, GenSci, Gilead Sciences (through its acquisition of Forty Seven), Hanchor Bio, Hisun, Hutchmed, I-Mab, Ichnos, ImmuneOncia Therapeutics, ImmuneOnco Biopharma, Innovent, Kahr, LaNova, Lightchain Bioscience, Mabwell Therapeutics, Mabworks, Novimmune, OSE Immunotherapeutics, Pfizer (through its acquisition of Trillium Therapeutics), Phanes, Pyxis Oncology (through its acquisition of Apexigen), Shandong New Time, Shattuck Labs, Sorrento Therapeutics, Sumgen, SunHo Pharmaceutical, TG Therapeutics, Waterstone, and Zai Lab, among others, are developing or have begun development of drugs targeting the CD47 pathway that may have utility for the treatment of indications that we are targeting. Potential competitors also include academic institutions, government agencies and other public and private research organizations that conduct research, seek patent protection and establish collaborative arrangements for research, development, manufacturing and commercialization.

There are already a variety of available drug therapies marketed for cancer and some of the currently approved drug therapies are branded and subject to patent protection and others are available on a generic basis. Many of these approved drugs are well established therapies and are widely accepted by physicians, patients and third-party payors. Insurers and other third-party payors may also encourage the use of generic products. We expect that if evorpcept and/or any of our other future product candidates are approved, they will be priced at a significant premium over competitive generic products. This may make it difficult for us to achieve our business strategy of using our product candidates in combination with existing therapies or replacing existing therapies with our product candidates.

Many of the companies against which we are competing or against which we may compete in the future have significantly greater financial resources and expertise in research and development, manufacturing, preclinical testing, conducting clinical trials, obtaining regulatory approvals and marketing approved drugs than we do. Mergers and acquisitions in the pharmaceutical and biotechnology industries may result in even more resources being concentrated among a smaller number of our competitors. Smaller or early-stage companies may also prove to be significant competitors, particularly through collaborative arrangements with large and established companies. These competitors also compete with us in recruiting and retaining qualified scientific and management personnel, in establishing clinical trial sites and enrolling subjects for our clinical trials and in acquiring technologies complementary to, or necessary for, our programs.

We could see a reduction or elimination of our commercial opportunity if our competitors develop and commercialize products that are safer, more effective, more convenient or less expensive than any products that we or our collaborators may develop. Our competitors also may obtain FDA or foreign regulatory approval for their products more rapidly than we may obtain approval for ours, which could result in our competitors establishing a strong market position before we are able to enter the market. The key competitive factors affecting the success of all our product candidates, if approved, are likely to be their efficacy, safety, convenience, price, the level of biosimilar or generic competition and the availability of reimbursement from government and other third-party payors. The inability to compete with existing or subsequently introduced drugs would harm our business, financial condition and results of operations.

***Even if our product candidates receive regulatory approval, they will be subject to significant post-marketing regulatory requirements and oversight.***

Even after approval, our manufacturing processes, labeling, packaging, distribution, adverse event reporting, storage, advertising, promotion, import, export and recordkeeping for our approved products will be subject to extensive and ongoing regulatory requirements. These requirements include submissions of safety and other post-marketing information and reports, registration, as well as on-going compliance with current good manufacturing practices, or cGMPs, and current good clinical practices, or cGCPs, for any clinical trials that we conduct post-approval. Regulatory approvals may contain significant limitations related to use restrictions for specific target population subsets, *e.g.*, age groups, warnings, precautions or contraindications, or may include costly and burdensome post-approval study or risk management requirements and regulatory inspection. For example, the FDA may require a risk evaluation and mitigation strategy, or REMS, as a condition for approval of our product candidates, which could entail requirements for a medication guide, physician training and communication plans or additional elements to ensure safe use, such as restricted distribution methods, patient registries and other risk mitigation tools.

In addition, manufacturers of drug products and their facilities are subject to continual review and periodic, unannounced inspections by the FDA and other regulatory authorities for compliance with cGMP regulations and standards. If we or a regulatory agency discover previously unknown problems with a product, such as adverse events of unanticipated severity or frequency, or problems with a contract supplier, vendor, or facility where the product is manufactured or processed, a regulatory agency may impose restrictions on that product, the manufacturing facility or contractor, or us, including requiring recall or withdrawal of the product from the market or suspension of manufacturing. In addition, failure to comply with FDA, EMA and other comparable foreign regulatory requirements may subject our company to administrative or judicially imposed sanctions or enforcement actions, including:

- delays in or the rejection of product approvals;

- restrictions on our ability to conduct clinical trials, including full or partial clinical holds on ongoing or planned trials;
- restrictions on the products, manufacturers or manufacturing process;
- warning or untitled letters;
- civil and criminal penalties;
- injunctions;
- suspension or withdrawal of regulatory approvals;
- product seizures, detentions or import bans;
- voluntary or mandatory product recalls and publicity requirements;
- total or partial suspension of production; and
- imposition of restrictions on operations, including costly new manufacturing requirements.

The occurrence of any of these sanctions, enforcement actions or penalties described above may inhibit our ability to commercialize our product candidates, even if approved, and generate revenue.

***We rely on Tallac Therapeutics, a third-party service provider, to conduct substantially all of our preclinical research activities for evorpcept. If Tallac Therapeutics does not successfully carry out its contractual duties or meet expected deadlines, there may be disruptions or delays to our evorpcept development pipeline and our business could be harmed.***

We have the ability to independently conduct our preclinical research activities but we rely on a third-party service provider to conduct all of our preclinical research activities for evorpcept. Effective as of July 1, 2020, we transferred our preclinical research capabilities at such time and nine of our employees, including a former Chief Scientific Officer, to Tallac Therapeutics, and entered into a research and development services agreement, or the Tallac Services Agreement, with Tallac Therapeutics. Under the terms of the Tallac Services Agreement, Tallac Therapeutics will provide preclinical research services to us for the cost of these services plus a mark-up equal to 10.0% of such costs.

If Tallac Therapeutics does not successfully carry out its contractual obligations or meet expected deadlines, if Tallac Therapeutics needs to be replaced, or if the quality or accuracy of the preclinical data Tallac Therapeutics obtains is compromised due to its failure to adhere to its or our preclinical protocols, regulatory requirements or for other reasons, our preclinical research efforts and studies may be extended or delayed, and there may be disruptions or delays to our evorpcept development pipeline. As a result, our evorpcept product candidate research and development efforts may be delayed or harmed, and our costs could increase and our future ability to generate revenues could be delayed.

Further, Tallac Therapeutics' employees are not our employees, and we will not be able to control, other than by contract, the amount of resources, including time, that they devote to our evorpcept preclinical research efforts and studies. If Tallac Therapeutics fails to devote sufficient resources to the research and development of our evorpcept preclinical research programs and studies, or if its performance is substandard, there may be disruptions or delays to our evorpcept development pipeline. In addition, we must disclose our proprietary information to Tallac Therapeutics, which could increase the risk that this information will be misappropriated or that disputes related to our intellectual property with Tallac Therapeutics may occur, including the risks discussed below related to intellectual property matters.

If our relationship with Tallac Therapeutics terminates, hiring additional internal research and development employees will involve additional efforts and costs and could divert management's time and focus. In addition, there is a natural transition period to train new employees. As a result, delays may occur, which can materially impact our ability to meet our desired preclinical timelines. Since Tallac Therapeutics is an early-stage company with a limited operating history, it may face challenges to its business and cease to operate, and we may need to hire employees on an accelerated timeline and on less favorable terms. There can be no assurance that we will not encounter similar challenges or delays in the future or that these delays or challenges will not have a material adverse impact on our business, financial condition and results of operations.

Our commercial success depends, in part, on our ability to conduct our research and develop our product pipeline without infringing the intellectual property and other proprietary rights of third parties. If we ever become involved in any dispute with Tallac Therapeutics over ownership of intellectual property or proprietary rights in the future because of the access that Tallac Therapeutics had to our intellectual property, including trade secrets, we may need to negotiate or engage in litigation to preserve our intellectual property rights, which may be time-consuming, expensive and ultimately unsuccessful. In addition, our former employees who are now employees of Tallac Therapeutics may possess our proprietary information. Although these former employees have signed confidentiality and invention assignment agreements with us, we cannot guarantee that they will not breach these agreements in the future. If these former employees disclose our proprietary information to Tallac Therapeutics or other third parties, we may not be able to obtain adequate remedies for such breaches.

***We contract with third parties for the manufacture of our product candidates for preclinical development and clinical trials, and we expect to continue to do so for commercialization. This reliance on third parties increases the risk that we will not have sufficient quantities of our product candidates or drugs or such quantities at an acceptable cost or quality, which could delay, prevent or impair our development or commercialization efforts.***

We do not currently own or operate, nor do we have any plans to establish in the future, any manufacturing facilities or personnel. We rely, and expect to continue to rely, on third parties for the manufacture of our product candidates for preclinical development and clinical testing, as well as for the commercial manufacture of our drugs if any of our product candidates receive marketing approval. No assurance can be given that long-term, scalable manufacturers can be identified or that they can make clinical and commercial supplies of our product candidates that meet the product specifications of previously manufactured batches, or are of a sufficient quality, or at an appropriate scale and cost to make it commercially feasible. Such third-party manufacturers may also be subject to delays due to circumstances outside of their control for a variety of reasons, including outbreaks and public health crises, such as the COVID-19 pandemic, that could shut down or cause limited staffing of their facilities. Our reliance on third parties increases the risk that we will not have sufficient quantities of our product candidates or drugs or such quantities at an acceptable cost or quality, which could delay, prevent or impair our development or commercialization efforts. If they are unable to do so, it could have a material adverse impact on our business.

The facilities used by contract manufacturers to manufacture our product candidates must be approved by the FDA or any applicable foreign regulatory authority pursuant to inspections that may be conducted after we submit our marketing applications to the FDA or any such foreign regulatory authority. We do not control the manufacturing process of, and will be completely dependent on, our contract manufacturers for compliance with cGMPs in connection with the manufacture of our product candidates. If our contract manufacturers cannot successfully manufacture material that conforms to our specifications and the strict regulatory requirements of the FDA or others, they will not be able to secure and/or maintain regulatory approval for their manufacturing facilities. In addition, we have no control over the ability of our contract manufacturers to maintain adequate quality control, quality assurance and qualified personnel. If the FDA or any applicable foreign regulatory authority does not approve these facilities for the manufacture of our product candidates or if it withdraws any such approval in the future, we may need to find alternative manufacturing facilities, which would significantly impact, including causing substantial delay in, our ability to develop, obtain regulatory approval for or market our product candidates. Further, our failure, or the failure of our third-party manufacturers, to comply with applicable regulations could result in sanctions being imposed on us, including clinical holds, fines, injunctions, civil penalties, delays, suspension or withdrawal of approvals, license revocation, seizures or recalls of drug candidates or drugs, operating restrictions and criminal prosecutions, any of which could significantly and adversely affect our business and supplies of our product candidates.

Our product candidates and any drugs that we may develop may compete with other product candidates and approved drugs for access to manufacturing facilities. There are a limited number of manufacturers that operate under cGMP regulations and that might be capable of manufacturing for us.

We also expect to rely on other third parties to label, package, store and distribute product candidate supplies for our clinical trials. Any performance failure on the part of our distributors could delay clinical development or marketing approval of any future product candidates or commercialization of our products, producing additional losses and depriving us of potential drug revenue.

Any performance failure on the part of our existing or future manufacturers could delay clinical development, marketing approval or commercial drug supply after marketing approval. If our current contract manufacturers cannot perform as agreed, we may be required to replace such manufacturers causing additional costs and delays in identifying and qualifying any such replacement.

***Material modifications in the methods of product candidate manufacturing or formulation may result in additional costs or delay.***

The manufacture of drugs is complex, and our third-party manufacturers may encounter difficulties in production. If any of our third-party manufacturers encounter such difficulties, our ability to provide adequate supply of our product candidates for clinical trials or our products for patients, if approved, could be delayed or prevented. We have previously encountered challenges in the production of a drug substance batch, and as a result incurred additional costs to address and rectify the manufacturing process. Also, as product candidates progress through preclinical and clinical trials to marketing approval and commercialization, it is common that various aspects of the development program, such as manufacturing, suppliers and formulation, are altered in an effort to optimize yield and manufacturing batch size, minimize costs and achieve consistent quality and results. Any of these changes could cause our product candidates to perform differently and affect the results of planned clinical trials or other future clinical trials conducted with the modified manufacturing, materials or process. This could delay completion of clinical trials, require the conduct of additional clinical trials, such as bridging studies to demonstrate the product is substantially equivalent to product used during earlier clinical trials or the repetition of one or more clinical trials, increase clinical trial costs, delay approval of our product candidates and jeopardize our ability to commercialize our product candidates, if approved, and generate revenue.

***Development of product candidates in combination with other therapies could expose us to additional risks. Lack of third-party combination drugs may materially and adversely affect demand for our product candidates.***

Even if any of our product candidates were to receive marketing approval or be commercialized for use in combination with other existing therapies, we would continue to be subject to the risks that the FDA, EMA or other comparable foreign regulatory authorities could revoke approval of the therapy used in combination with any of our product candidates, or safety, efficacy, manufacturing or supply issues could arise with these existing therapies. In addition, it is possible that existing therapies with which our product candidates are approved for use could themselves fall out of favor or be relegated to later lines of treatment. This could result in the need to identify other combination therapies for our product candidates or our own products being less successful commercially. We may also evaluate our product candidates in combination with one or more other cancer therapies that have not yet been approved for marketing by the FDA, EMA or comparable foreign regulatory authorities. We will not be able to market and sell any product candidate in combination with any such unapproved cancer therapies that do not ultimately obtain marketing approval. If the FDA, EMA or other comparable foreign regulatory authorities do not approve or revoke their approval of these other therapies, or if safety, efficacy, commercial adoption, manufacturing or supply issues arise with the therapies we choose to evaluate in combination with any other product candidate, we may be unable to obtain approval of or successfully market any one or all of the product candidates we develop.

Further, to the extent the regulatory authorities require concurrent updates to the drug labeling of an approved drug product to include the combination use to allow approval of one of our product candidates, we will need to coordinate with the third-party manufacturer regarding such combination labeling changes, which could delay or impact the approval of our product candidate. Changes in standard of care and treatment paradigm can materially and adversely affect our business and results of operations, including the design of our clinical trials. Additionally, if the third-party providers of therapies or therapies in development used in combination with our product candidates are unable to produce sufficient quantities for clinical trials or for commercialization of our product candidates, or if the cost of combination therapies are prohibitive, our development and commercialization efforts would be impaired, which would have an adverse effect on our business, financial condition, results of operations and growth prospects.

Our product candidates may be administered in combination with drugs of other pharmaceutical companies as one regimen. In addition, we currently use, and plan to use in the future, third-party drugs in our development and clinical trials as controls for our studies, such as conducting Phase 2 and Phase 2/3 clinical trials of evorpaccept in combination with pembrolizumab for HNSCC and trastuzumab for gastric/GEJ carcinoma, respectively. As a result, both the results of our clinical trials and the sales of our drugs may be affected by the availability of these third-party drugs. For instance, we entered into clinical trial collaboration and supply agreements with Merck, Eli Lilly and Jazz, pursuant to which our collaboration counterparties will supply doses of pembrolizumab, ramucirumab, and zanidatamab, respectively, for use in certain clinical trials. If the agreements with Merck and Eli Lilly are terminated before the trials are completed, we may need to find another source of pembrolizumab and ramucirumab, respectively, in order to continue our trials. Zanidatamab is not approved for commercial use by the FDA or any comparable regulatory authority, and as a result, no alternative source of zanidatamab exists. As such, if the agreement with Jazz is terminated before the trials are completed, our ability to continue the trials with zanidatamab would be limited.

If other pharmaceutical companies discontinue these drugs for combination therapies in the future, regimens that use these combination drugs may no longer be prescribed, and we may not be able to introduce or find an alternative drug to be used in combination with our drugs at all or in a timely manner and on a cost-effective basis. Use of new combination drugs with our approved product candidates will require further regulatory approval before we can promote such new combination therapies. As a result, demand for our product candidates may be lowered, which would in turn materially and adversely affect our business and results of operations.



***We may not be able to obtain regulatory approval for our product candidates or commercialize any product candidates that may result from our development efforts, or may miss expected deadlines, if we are not able to maintain or secure agreements with the third parties that conduct the activities related to our clinical trials on acceptable terms, if these third parties do not perform their services as contractually required, or if these third parties fail to timely transfer any regulatory information held by them to us.***

We rely on entities outside of our control, which may include academic institutions, CROs, hospitals, clinics and other third-party strategic partners, to monitor, support, conduct and oversee preclinical studies and clinical trials of our current and future product candidates. As a result, we have less control over the timing and cost of these studies and the ability to recruit trial subjects than if we conducted these trials with our own personnel. If we are unable to maintain or enter into agreements with these third parties on acceptable terms, or if any such engagement is terminated prematurely, we may be unable to enroll subjects on a timely basis or otherwise conduct our clinical trials as planned. In addition, there is no guarantee that these third parties will devote adequate time and resources to our clinical trials or perform as required by our contract or in accordance with regulatory requirements, including maintenance of clinical trial information regarding our product candidates. For example, these third parties may be adversely impacted by the COVID-19 pandemic. If these third parties fail to meet expected deadlines, fail to transfer to us any regulatory information in a timely manner, fail to adhere to protocols or fail to act in accordance with regulatory requirements or our agreements with them, or if they otherwise perform in a substandard manner or in a way that compromises the quality or accuracy of their activities or the data they obtain, then clinical trials of our product candidates may be extended or delayed with additional costs incurred, or our data may be rejected by the FDA or other regulatory agencies. Ultimately, we are responsible for ensuring that each of our clinical trials is conducted in accordance with the applicable protocol, legal, regulatory and scientific standards, and our reliance on third parties does not relieve us of our regulatory responsibilities.

We and our CROs are required to comply with cGCPs, regulations and guidelines enforced by the FDA and comparable foreign regulatory authorities for products in clinical development. Regulatory authorities enforce these cGCPs through periodic inspections of clinical trial sponsors, principal investigators and clinical trial sites. If we or any of our CROs fail to comply with applicable cGCPs, the clinical data generated in our clinical trials may be deemed unreliable and our submission of marketing applications may be delayed, or the FDA or foreign regulatory authority may require us to perform additional clinical trials before approving our marketing applications. Upon inspection, the FDA or foreign regulatory authority could determine that any of our clinical trials fail or have failed to comply with applicable cGCPs.

Our business also may be implicated if any of our CROs violates fraud and abuse or false claims laws and regulations or healthcare privacy and security laws.

If any of our third-party clinical trial sites terminate for any reason, we may experience the loss of follow-up information on subjects enrolled in our ongoing clinical trials unless we are able to transfer the care of those subjects to another qualified clinical trial site. Further, our CROs are not required to work indefinitely or exclusively with us. Our existing agreements with our CROs may be subject to termination by the counterparty upon the occurrence of certain circumstances. If any CRO terminates its agreement with us, the research and development of the relevant product candidate would be suspended, and our ability to research, develop and license future product candidates would be impaired. We may be required to devote additional resources to the development of our product candidates or seek a new CRO partner, and the terms of any additional arrangements that we establish may not be favorable to us. Switching or adding CROs or other service providers can involve substantial cost and require extensive management time and focus. In addition, there is a natural transition period when a new CRO or service provider commences work. As a result, delays may occur, which can materially impact our ability to meet our desired clinical development timelines. If we are required to seek alternative arrangements, the resulting delays and potential inability to find suitable replacements could materially and adversely impact our business.

***Even if we receive marketing approval for any of our product candidates, we may not achieve market acceptance, which would limit the revenue that we can generate from sales of any of our approved product candidates.***

Even if the FDA and applicable foreign regulatory authorities approve the marketing of any product candidates that we develop, physicians, patients, third-party payors or the medical community may not accept or use our product candidates. Efforts to educate the medical community and third-party payors on the benefits of our product candidates may require significant resources and may not be successful. Market acceptance of evorpcept and any other product candidates, if any are approved, will depend on a number of factors, including, among others:

- the ability of evorpcept and our other product candidates to treat cancer or other applicable targeted diseases, as compared with other available drugs, treatments or therapies;
- the timing of market introduction of the product candidate as well as competitive products;
- the clinical indications for which a product candidate is approved;
- the approval of other new therapies for the same indications;
- the prevalence and severity of any adverse side effects associated with evorpcept and our other product candidates;



- limitations or warnings contained in the labeling approved for evorpaccept or our other product candidates by the FDA or foreign regulatory authorities;
- availability of alternative treatments and the potential and perceived advantages of our product candidates over alternative treatments;
- the size of the target patient population and the willingness of the target patient population to try new therapies and of physicians to prescribe these therapies;
- the strength and effectiveness of marketing and distribution support and timing of market introduction of competitive products;
- publicity for our product candidates and competing products and treatments;
- pricing and cost-effectiveness in relation to alternative treatments;
- relative convenience and ease of administration;
- our ability to obtain sufficient third-party coverage or reimbursement, and the willingness of patients to pay out-of-pocket in the absence of third-party coverage; and
- the likelihood that the FDA or any foreign regulatory authority may impose additional requirements that limit the promotion, advertising, distribution or sales of our product candidates.

Adverse events in clinical trials for our product candidates or in clinical trials of others developing similar products and the resulting publicity, as well as any other adverse events in the field of immuno-oncology that may occur in the future, could result in a decrease in demand for evorpaccept or any other product candidate that we may develop. If public perception is influenced by claims that the use of cancer immunotherapies is unsafe, whether related to our therapies or those of our competitors, our products may not be accepted by the general public or the medical community. Future adverse events in immuno-oncology or the biopharmaceutical industry generally could also result in greater governmental regulation and stricter labeling requirements.

If any of our product candidates is approved but does not achieve an adequate level of acceptance by patients, physicians and/or third-party payors, we may not generate sufficient revenue to become or remain profitable and our business may be harmed.

***We have never commercialized a product candidate and we may lack the necessary expertise, personnel and resources to successfully commercialize any of our products that receive regulatory approval.***

We currently have no marketing and sales organization and we have never commercialized a product candidate. To achieve commercial success of our product candidates, if any are approved, we will have to develop our own medical affairs, sales, marketing and supply capabilities or outsource these activities to a third party.

If any of our product candidates ultimately receives regulatory approval, we may choose to establish an internal marketing and sales organization with technical expertise and supporting distribution capabilities to commercialize each such product in major markets, which will be expensive and time consuming. We have no prior experience as a company in the marketing, sale and distribution of pharmaceutical products and there are significant risks involved in building and managing a sales organization. Factors that may affect our ability to commercialize our product candidates on our own include recruiting and retaining adequate numbers of effective sales and marketing personnel, obtaining access to or persuading adequate numbers of physicians to prescribe our product candidates and other unforeseen costs associated with creating an independent sales and marketing organization. Developing a sales and marketing organization requires significant investment, is time-consuming and could delay the launch of our product candidates. We may not be able to build an effective sales and marketing organization in the United States, the European Union or other key global markets. If we are unable to build our own distribution and marketing capabilities or to find suitable partners for the commercialization of our product candidates, we may have difficulties generating revenue from them.

We may also choose to collaborate with third parties that have direct sales forces and established distribution systems, either to augment our own sales force and distribution systems or in lieu of our own sales force and distribution systems. We may not be able to enter into collaborations or hire consultants or external service providers to assist us in sales, marketing and distribution functions on acceptable financial terms, or at all. In addition, our product revenue and our profitability, if any, may be lower if we rely on third parties for these functions than if we were to market, sell and distribute any products that we develop ourselves. We likely will have little control over such third parties, and any of them may fail to devote the necessary resources and attention to sell and market our products effectively. If we are not successful in commercializing our products, either on our own or through arrangements with one or more third parties, we may not be able to generate any future product revenue and we would incur significant additional losses. We have no internal sales, marketing or distribution capabilities.

***The market opportunities for the product candidates we develop, if approved, may be limited to certain smaller patient subsets.***

There is no guarantee that the product candidates we develop, even if approved, would be approved for the currently proposed indications. We may have to conduct additional clinical trials that may be costly, time-consuming and subject to risk. Regulators, like the FDA, may require us to narrow our indications to smaller patient subsets, and the number of patients in such subsets may turn out to be lower than expected. If this were to occur, it could have a material adverse effect on our business.

***Our current and future product candidates may have undesirable side effects that may delay or prevent marketing approval or, if approval is received, require them to be taken off the market, require them to include new safety warnings, contraindications or precautions, or otherwise limit their sales. No regulatory agency has made a determination that any of our product candidates are safe, pure, potent or effective for use by the target patient population for any indication.***

Our lead product candidate, evorpaccept, is at an early stage of clinical development and not all adverse effects can be predicted or anticipated. Unforeseen side effects from evorpaccept or any of our future product candidates may arise at any time during clinical development or, if approved by regulatory authorities, after the approved drug product has been marketed. Any undesirable or unacceptable side effects of evorpaccept or our future product candidates could interrupt, delay or halt clinical trials, and result in delay of, or failure to obtain, marketing approval from the FDA or comparable international regulatory authorities, or result in marketing approval from the FDA or comparable international regulatory authorities with restrictive label warnings or for limited patient populations. Ultimately, such side effects could result in product liability claims. No regulatory agency has made any determination that any of our product candidates or discovery programs is safe or effective for use by the general public for any indication.

Even if any of our product candidates receive marketing approval, if we or others later identify undesirable or unacceptable side effects caused by such products:

- regulatory authorities may require us to take our approved product off the market;
- regulatory authorities may require the addition of labeling statements, specific warnings, contraindication, precaution or field alerts to physicians and pharmacies;
- we may be required to change the way the product is administered, including changing the dose and/or schedule of administration, limit the patient population who can use the product or conduct additional clinical trials;
- we may be subject to limitations on how we may promote the product;
- sales of the product may decrease significantly;
- we may be subject to litigation or product liability claims; and
- our reputation may suffer.

Any of these events could prevent us from achieving or maintaining market acceptance of the affected product or could substantially increase commercialization costs and expenses, which in turn could delay or prevent us from generating revenue from the sale of any future product candidates.

***Failure to obtain or maintain adequate coverage and reimbursement for our product candidates, if approved, could limit our ability to market those products and decrease our ability to generate revenue.***

The availability and adequacy of coverage and reimbursement by governmental healthcare programs such as Medicare and Medicaid, private health insurers and other third-party payors are essential for most patients to be able to afford products such as our product candidates, if approved. Our ability to achieve and maintain acceptable levels of coverage and reimbursement for products by governmental authorities, private health insurers and other organizations will have an effect on our ability to successfully commercialize our product candidates. Coverage under certain government programs, such as Medicare, Medicaid and TRICARE, may not be available for certain of our product candidates. Assuming we obtain coverage for a given product by a third-party payor, the resulting reimbursement payment rates may not be adequate or may require co-payments that patients find unacceptably high. We cannot be sure that coverage and reimbursement in the United States, the European Union or elsewhere will be available for any product that we may develop, and any reimbursement that may become available may be decreased or eliminated in the future.

Third-party payors increasingly are challenging prices charged for pharmaceutical products and services, and many third-party payors may refuse to provide coverage and reimbursement for particular drugs when an equivalent generic drug, biosimilar or a less expensive therapy is available. It is possible that a third-party payor may consider our product candidates and other therapies as substitutable and only offer to reimburse patients for the less expensive product. Even if we show improved efficacy and potency or improved convenience of administration with our product candidates, pricing of existing drugs may limit the amount we will be able to charge for our product candidates. These payors may deny or revoke the reimbursement status of a given product or establish prices for new or existing marketed products at levels that are too low to enable us to realize an appropriate return on our investment in product development. If reimbursement is not available or is available only at limited levels, we may not be able to successfully commercialize our product candidates and may not be able to obtain a satisfactory financial return on products that we may develop.

Obtaining and maintaining reimbursement status is time-consuming and costly. No uniform policy for coverage and reimbursement for products exists among third-party payors in the United States. Therefore, coverage and reimbursement for products can differ significantly from payor to payor. As a result, the coverage determination process is often a time-consuming and costly process that will require us to provide scientific and clinical support for the use of our products to each payor separately, with no assurance that coverage and adequate reimbursement will be applied consistently or obtained in the first instance. Furthermore, rules and regulations regarding reimbursement change frequently, in some cases at short notice, and we believe that changes in these rules and regulations are likely.

Moreover, increasing efforts by governmental and third-party payors in the United States and abroad to cap or reduce healthcare costs may cause such organizations to limit both coverage and the level of reimbursement for newly approved products and, as a result, they may not cover or provide adequate payment for our product candidates. We expect to experience pricing pressures in connection with the sale of any of our product candidates due to the trend toward managed healthcare, the increasing influence of health maintenance organizations and additional legislative changes. The downward pressure on healthcare costs in general, particularly prescription drugs, has become very intense. As a result, increasingly high barriers are being erected to the entry of new products. The continuing efforts of the government, insurance companies, managed care organizations and other payors of health care services to contain or reduce costs of health care may adversely affect:

- the demand for any products for which we may obtain regulatory approval;
- our ability to set a price that we believe is fair for our products;
- our ability to obtain and maintain coverage and adequate reimbursement for a product;
- our ability to generate revenue and achieve or maintain profitability; and
- the level of taxes that we are required to pay.

***The FDA and other regulatory agencies actively enforce the laws and regulations prohibiting the promotion of off-label uses.***

The FDA strictly regulates manufacturers' promotional claims of drug products. In particular, a product may not be promoted for uses that are not approved by the FDA as reflected in the FDA-approved labeling. The FDA, the Department of Justice, the Inspector General of the Department of Health and Human Services, or HHS, among other government agencies, actively enforce the laws and regulations prohibiting the promotion of off-label uses, and a company that is found to have improperly promoted off-label uses may be subject to significant liability, including large civil and criminal fines, penalties and enforcement actions. The FDA has also imposed consent decrees or permanent injunctions under which specified promotional conduct is changed or curtailed for companies that engaged in such prohibited activities. If we cannot successfully manage the promotion of our approved product candidates, we could become subject to significant liability, which would materially adversely affect our business and financial condition.

**Risks Related to Government Regulation**

***Even if we receive regulatory approval to commercialize any of our product candidates, we will be subject to ongoing regulatory obligations and continued regulatory review with respect to our drugs, which will result in significant additional expense.***

Any regulatory approvals that we receive for our product candidates may be subject to limitations on the approved indicated uses for which the product may be marketed, or subject to certain conditions of approval and may contain requirements for potentially costly post-approval trials and surveillance to monitor the safety, purity and efficacy/potency of the marketed product. For any approved drug, we will be subject to ongoing regulatory obligations and extensive oversight by regulatory authorities, including with respect to manufacturing processes, labeling, packaging, distribution, adverse event reporting, storage, advertising, promotion and recordkeeping for the product. These requirements include submissions of safety and other post-approval information and reports, as well as continued compliance with cGMPs and cGCPs for any clinical trials that we conduct post-approval. Later discovery of previously unknown problems with a drug, including adverse events of unanticipated severity or frequency, or with third-party manufacturers or manufacturing processes, or failure to comply with regulatory requirements, may result in, among other things:

- restrictions on the marketing or manufacturing of the drug;
- withdrawal of the drug from the market or voluntary or mandatory product recalls;
- adverse publicity, fines, warning letters or holds on clinical trials;
- refusal by the FDA or any other applicable regulatory authority to approve pending applications or supplements to approved applications filed by us, or suspension or revocation of product license approvals;
- drug product seizure or detention, or refusal to permit the import or export of product candidates; and
- injunctions or the imposition of civil or criminal penalties.

The occurrence of any of the foregoing could have a material and adverse effect on our business and results of operations. Further, the policies of the FDA or other comparable foreign regulatory authorities may change, and additional government regulations may be enacted that could prevent, limit or delay regulatory approval of our product candidates or impact any already approved drugs. If we are slow or unable to adapt to changes in existing requirements or the adoption of new requirements or policies, or if we are not able to maintain regulatory compliance, we may lose any marketing approval that we may have obtained, which would adversely affect our business, prospects and ability to generate revenue or achieve or sustain profitability.

***The regulatory approval processes of the FDA and comparable foreign regulatory authorities are lengthy, time-consuming and inherently unpredictable, which could lead to our inability to generate product revenue. Even if we obtain FDA approval of any of our product candidates, we may never obtain approval or commercialize such products outside of the United States, which would limit our ability to realize their full market potential.***

The time required to obtain approval by the FDA and comparable foreign regulatory authorities is unpredictable, typically takes many years following the commencement of clinical trials and depends upon numerous factors, including the type, complexity and novelty of the product candidates involved. Seeking foreign regulatory approvals could result in significant delays, difficulties and costs for us and may require additional preclinical studies or clinical trials which would be costly and time consuming. Regulatory requirements can vary widely from country to country and could delay or prevent the introduction of our product candidates in those countries. In addition, approval policies, regulations or the type and amount of clinical data necessary to gain approval may change during the course of a product candidate's clinical development and may vary among jurisdictions, which may cause delays in the approval or the decision not to approve an application. For example, the FDA's Oncology Center of Excellence initiated Project Optimus to reform the dose optimization and dose selection paradigm in oncology drug development and Project FrontRunner to help develop and implement strategies to support approvals in the early clinical setting, among other goals. How the FDA plans to implement these goals and their impact on specific clinical programs and the industry are unclear. Regulatory authorities have substantial discretion in the approval process and may refuse to accept any application or may decide that our data are insufficient for approval and require additional preclinical, clinical or other data. Satisfying these and other regulatory requirements is costly, time consuming, uncertain and subject to unanticipated delays. Our failure to obtain regulatory approval in any country may delay or have negative effects on the process for regulatory approval in other countries. Even if we eventually complete clinical testing and receive approval of any regulatory filing for our product candidates, the FDA and comparable foreign regulatory authorities may approve our product candidates for a more limited indication or a narrower patient population than we originally requested. We have not submitted for or obtained regulatory approval for any product candidate and it is possible that we may never obtain regulatory approval for evorpacept, or any other product candidates we seek to develop in the future. If we fail to comply with regulatory requirements in international markets or to obtain and maintain required approvals, our target market will be reduced and our ability to realize the full market potential of our product candidates will be harmed.

Applications for our product candidates could fail to receive regulatory approval for many reasons, including but not limited to the following:

- the FDA or comparable international regulatory authorities may disagree with the design, implementation or results of our clinical trials;
- the FDA or comparable international regulatory authorities may determine that our product candidates are not safe and effective, only moderately effective or have undesirable or unintended side effects, toxicities or other characteristics that preclude our obtaining marketing approval or prevent or limit commercial use;
- the population studied in the clinical program may not be sufficiently broad or representative to assure efficacy and potency and safety in the full population for which we seek approval;
- the FDA or comparable international regulatory authorities may disagree with our interpretation of data from preclinical studies or clinical trials;
- the data collected from clinical trials of our product candidates may not be sufficient to support the submission of a Biologics License Application, New Drug Application or other submission or to obtain regulatory approval in the United States or elsewhere;
- we may be unable to demonstrate to the FDA or comparable international regulatory authorities that a product candidate's risk-benefit ratio for its proposed indication is acceptable;
- the FDA or comparable international regulatory authorities may fail to approve the manufacturing processes, test procedures and specifications or facilities of third-party manufacturers with which we contract for clinical and commercial supplies; and
- the approval policies or regulations of the FDA or international foreign regulatory authorities may significantly change in a manner rendering our clinical data insufficient for approval.



In order to market any product candidates outside of the United States, we must establish and comply with numerous and varying regulatory requirements of other countries regarding safety and efficacy and potency and approval standards. Clinical trials conducted in one country may not be accepted by regulatory authorities in other countries, and regulatory approval in one country does not mean that regulatory approval will be obtained in any other country.

The ability of the FDA to review and approve new products can be affected by a variety of factors, including government budget and funding levels, ability to hire and retain key personnel and accept the payment of user fees, government shutdowns, including as a result of budget delays or other circumstances like the COVID-19 pandemic and statutory, regulatory and policy changes. Average review times at the agency have fluctuated in recent years as a result. This lengthy approval process, as well as the unpredictability of the results of clinical trials, may result in our failing to obtain regulatory approval to market any of our product candidates, which would significantly harm our business, results of operations and prospects.

***While we have received certain FDA Fast Track designations, such Fast Track designations may not lead to a faster development or regulatory review or approval process, and do not increase the likelihood that the drug will receive marketing approval.***

The FDA granted Fast Track designation for evorpaccept in combination with pembrolizumab, platinum, and fluorouracil for the first-line treatment of adult patients with metastatic or unresectable, recurrent HNSCC in February 2020, for evorpaccept in combination with trastuzumab, ramucirumab and paclitaxel for the treatment of patients with HER2-overexpressing advanced gastric or GEJ adenocarcinoma with disease progression on or after prior trastuzumab, and fluoropyrimidine or platinum-containing chemotherapy in January 2020, and for evorpaccept in combination with pembrolizumab for first-line treatment of adult patients with metastatic or unresectable, recurrent HNSCC whose tumors express PD-L1 in July 2022. If a product candidate is intended for the treatment of a serious condition and preclinical or clinical data demonstrate the potential to address unmet medical need for such condition, a sponsor may apply for FDA Fast Track designation. Even though we received these Fast Track designations for evorpaccept, Fast Track designation does not ensure that we will receive marketing approval or that approval will be granted within any particular timeframe. We may not experience a faster development or regulatory review or approval process with Fast Track designation compared to conventional FDA procedures. In addition, the FDA may withdraw Fast Track designation if it believes that the designation is no longer supported by data from our clinical development program. Fast Track designation alone does not guarantee qualification for the FDA's priority review procedures.

***While we have received certain orphan drug designations from the FDA and the European Commission, we may be unable to maintain the benefits associated with such orphan drug designation. If we decide to seek orphan drug designation for additional indications for our product candidates in the future, we may be unsuccessful.***

Under the Orphan Drug Act, the FDA may designate a product candidate as an orphan drug if it is a drug intended to treat a rare disease or condition, which is generally defined as a patient population of fewer than 200,000 individuals annually in the United States. In January 2022, the FDA's Office of Orphan Products Development granted Orphan Drug Designation, ODD, to evorpaccept for treatment for gastric/GEJ cancer. We may seek ODD for certain additional indications for our product candidates in the future. ODD neither shortens the development time or regulatory review time of a product candidate nor gives the product candidate any advantage in the regulatory review or approval process. Generally, if a product candidate with ODD subsequently receives the first marketing approval for the indication for which it has such designation, the drug is entitled to a period of marketing exclusivity that precludes the FDA from approving another marketing application for the same drug for the same indication for seven years. Therefore, if our competitors are able to obtain orphan product exclusivity for their product candidates in the same indications we are pursuing, we may not be able to have competing product candidates approved in those indications by the FDA for a significant period of time. There are also limited circumstances where the FDA may reduce the seven-year exclusivity for a product candidate with an orphan drug designation where other product candidates show clinical superiority to the product with orphan exclusivity or if the FDA finds that the holder of the orphan exclusivity has not shown that it can assure the availability of sufficient quantities of the orphan product to meet the needs of patients with the disease or condition for which the drug was designated. However, even if one of our product candidates receives orphan exclusivity, the FDA can still approve other drugs that have a different active ingredient for use in treating the same indication or disease. Furthermore, the FDA can waive orphan exclusivity if we are unable to manufacture a sufficient supply of our product. In response to recent litigation, the FDA clarified in a January 2023 notice that the FDA will continue tying the scope of orphan-drug exclusivity to the uses or indications for which a drug is approved, which permits other sponsors to obtain approval of a drug for new uses or indications within the same orphan designated disease or condition that have not yet been approved. It is unclear how future litigation, legislation, agency decisions, and administrative actions will impact the scope of the orphan drug exclusivity.



In June 2023, the European Commission granted ODD to evorpaccept for the treatment of patients with gastric/GEJ cancer. In the European Union approved orphan medicines are granted 10 years of market exclusivity, which can be extended to 12 years if a pediatric investigation plan is completed. The market exclusivity period can be shortened if the approved orphan drug becomes commercially successful. An orphan designation can also be revoked if, for example, the prevalence of the condition increased to more than 5 per 10,000 individuals of the total population, if additional therapies are introduced after the initial designation and have improved the morbidity or mortality of a condition so that it is no longer chronically debilitating and/or life-threatening, or if we are unable to demonstrate significant benefit over existing authorized products. We can provide no assurance that we will be able to maintain all the benefits associated with the designation or that we will be successful in commercializing our product if approved.

***Current and future legislation may increase the difficulty and cost for us to commercialize our products, if approved, and affect the prices we may obtain. We may face difficulties from changes to current regulations and future legislation.***

Existing regulatory policies may change, and additional government regulations may be enacted that could prevent, limit or delay regulatory approval of our product candidates. We cannot predict the likelihood, nature or extent of government regulation that may arise from future legislation or administrative action, either in the United States or abroad. For example, if the Supreme Court reverses or curtails the *Chevron* doctrine, which gives deference to regulatory agencies in litigation against FDA and other agencies, more companies may bring lawsuits against FDA to challenge longstanding decisions and policies of FDA, which could undermine FDA's authority, lead to uncertainties in the industry, and disrupt FDA's normal operations, which could delay FDA's review of our marketing applications. If we are slow or unable to adapt to changes in existing requirements or the adoption of new requirements or policies, or if we are not able to maintain regulatory compliance, we may lose any marketing approval that we may have obtained, and we may not achieve or sustain profitability.

Third-party payors, whether domestic or foreign, or governmental or commercial, are developing increasingly sophisticated methods of controlling healthcare costs. In both the United States and certain foreign jurisdictions, there have been, and likely will continue to be, legislative and regulatory proposals at the foreign, federal and state levels directed at containing or lowering the cost of healthcare. We cannot predict the initiatives that may be adopted in the future. The continuing efforts of the government, insurance companies, managed care organizations and other payors of healthcare services to contain or reduce costs of healthcare and/or impose price controls may adversely affect:

- the demand for our drugs, if we obtain regulatory approval;
- our ability to receive or set a price that we believe is fair for our drugs;
- our ability to generate revenue and achieve or maintain profitability;
- the level of taxes that we are required to pay; and
- the availability of capital.

The Patient Protection and Affordable Care Act, as amended by the Health Care and Education Reconciliation Act, or collectively ACA, was enacted in 2010 and includes measures that have significantly changed the way healthcare is financed by both governmental and private insurers. The ACA continues to impact the U.S. pharmaceutical industry. Since its enactment, there have been judicial, executive and Congressional challenges to certain aspects of the ACA. In June 2021, the United States Supreme Court held that Texas and other challengers had no legal standing to challenge the ACA, dismissing the case without specifically ruling on the constitutionality of the ACA. Accordingly, the ACA remains in effect in its current form. It is possible that the ACA will be subject to judicial or Congressional challenges in the future. It is unclear how additional challenges and healthcare reform measures of the Biden administration will impact the ACA. Complying with any new legislation or reversing changes implemented under the ACA could be time-intensive and expensive, resulting in a material adverse effect on our business.

In addition, other legislative changes have been proposed and adopted since the ACA was enacted. These changes include aggregate reductions to Medicare payments to providers of up to 2% per fiscal year pursuant to the Budget Control Act of 2011, which began in 2013 and will remain in effect through 2032, with the exception of temporary suspension under COVID-19 relief legislation.

There also has recently been heightened governmental scrutiny over the manner in which drug manufacturers set prices for their drugs, which has resulted in several U.S. congressional inquiries and proposed and enacted federal and state legislation designed to, among other things, bring more transparency to product pricing, review the relationship between pricing and manufacturer patient programs and reform government program reimbursement methodologies for drug products. For example, under the American Rescue Plan Act of 2021, effective January 1, 2024, the statutory cap on Medicaid Drug Rebate Programs rebates that manufacturers pay to state Medicaid programs will be eliminated. Elimination of this cap may require pharmaceutical manufacturers to pay more in rebates than it receives on the sale of products, which could have material impact on our business. Further, in July 2021, the Biden administration released an executive order, “Promoting Competition in the American Economy,” with multiple provisions aimed at increasing competition for prescription drugs. Congress is considering legislation that, if passed, could have significant impact on prices of prescription drugs covered by Medicare, including limitations on drug price increases. In August 2022, Congress passed the Inflation Reduction Act of 2022, which includes prescription drug provisions that have significant implications for the pharmaceutical industry and Medicare beneficiaries, including allowing the federal government to negotiate a maximum fair price for certain high-priced single source Medicare drugs, imposing penalties and excise tax for manufacturers that fail to comply with the drug price negotiation requirements, requiring inflation rebates for all Medicare Part B and Part D drugs, with limited exceptions, if their drug prices increase faster than inflation, and redesigning Medicare Part D to reduce out-of-pocket prescription drug costs for beneficiaries, among other changes. Various industry stakeholders, including the U.S. Chamber of Commerce, the National Infusion Center Association, the Global Colon Cancer Association, and the Pharmaceutical Research and Manufacturers of America, have initiated lawsuits against the federal government asserting that the price negotiation provisions of the Inflation Reduction Act are unconstitutional. The impact of these judicial challenges, legislative, executive, and administrative actions and agency rules implemented by the government on us and the pharmaceutical industry as a whole is unclear. The implementation of cost containment measures or other healthcare reforms may prevent us from being able to generate revenue, attain profitability, or commercialize our product candidates if approved.

At the state level, legislatures have increasingly passed legislation and implemented regulations designed to control pharmaceutical and biological product pricing, including price or patient reimbursement constraints, discounts, restrictions on certain product access and marketing cost disclosure and transparency measures and, in some cases, designed to encourage importation from other countries and bulk purchasing. For example, a number of states are considering or have recently enacted state drug price transparency and reporting laws that could substantially increase our compliance burdens and expose us to greater liability under such state laws once we begin commercialization. FDA recently authorized the state of Florida to import certain prescription drugs from Canada for a period of two years to help reduce drug costs, provided that Florida’s Agency for Health Care Administration meets the requirements set forth by the FDA. Other states may follow Florida. We expect that additional state and federal healthcare reform measures will be adopted in the future, any of which could limit the amounts that federal and state governments will pay for healthcare products and services, which could result in reduced demand for our product candidates or additional pricing pressures.

The ACA, as well as other healthcare reform measures that may be adopted in the future, may result in additional reductions in Medicare and other healthcare funding, more rigorous coverage criteria, lower reimbursement and new payment methodologies. This could lower the price that we receive for any approved drug product. Any denial in coverage or reduction in reimbursement from Medicare or other government funded programs may result in a similar denial or reduction in payments from private payors, which may prevent us from being able to generate sufficient revenue, attain profitability or commercialize our product candidates, if approved.

In the European Union, similar political, economic and regulatory developments may affect our ability to profitably commercialize our current or any future product candidates. In addition to continuing pressure on prices, price controls and cost containment measures, legislative developments at the European Union or member state level may result in significant additional requirements or obstacles that may increase our operating costs. In international markets, reimbursement and healthcare payment systems vary significantly by country, and many countries have instituted price ceilings on specific products and therapies. Our future product candidates, if any, might not be considered medically reasonable and necessary for a specific indication or cost-effective by third-party payors, an adequate level of reimbursement might not be available for such product candidates and third-party payors’ reimbursement policies might adversely affect our ability to sell any future product candidates profitably.

Some countries require approval of the sale price of a drug before it can be marketed. In many countries, the pricing review period begins after marketing or product licensing approval is granted. In some foreign markets, prescription pharmaceutical pricing remains subject to continuing governmental control even after initial approval is granted. As a result, we might obtain marketing approval for a product candidate in a particular country, but then be subject to price regulations that delay the commercial launch of the product candidate, possibly for lengthy time periods, and negatively impact the revenue that are generated from the sale of the product in that country. If reimbursement of such product candidates is unavailable or limited in scope or amount, or if pricing is set at unsatisfactory levels, or if there is competition from lower-priced cross-border sales, our profitability will be negatively affected.

We cannot predict the likelihood, nature or extent of government regulation that may arise from future legislation or administrative action, either in the United States or abroad. If we are slow or unable to adapt to changes in existing requirements or the adoption of new requirements or policies, or if we are not able to maintain regulatory compliance, our product candidates may lose any marketing approval that may have been obtained and we may not achieve or sustain profitability, which would adversely affect our business.

***Our business operations and current and future relationships with investigators, health care professionals, consultants, third-party payors and customers will be subject, directly or indirectly, to federal and state healthcare fraud and abuse laws, false claims laws, health information privacy and security laws and other healthcare laws and regulations. If we are unable to comply, or have not fully complied, with such laws, we could face substantial penalties.***

Although we do not currently have any products on the market, our operations may be directly, or indirectly through our prescribers, consultants, customers and third-party payors, subject to various U.S. federal and state healthcare laws and regulations, including, without limitation, the U.S. federal Anti-Kickback Statute, the U.S. federal civil and criminal false claims laws and the Physician Payments Sunshine Act and regulations. Healthcare providers and others play a primary role in the recommendation and prescription of any products for which we obtain marketing approval. These laws may impact, among other things, our current business operations, including our clinical research activities and proposed sales, marketing and education programs and constrain the business of financial arrangements and relationships with healthcare providers, physicians and other parties through which we market, sell and distribute our products for which we obtain marketing approval. In addition, we may be subject to patient data privacy and security regulation by both the U.S. federal government and the states in which we conduct our business. Finally, we may be subject to additional healthcare, statutory and regulatory requirements and enforcement by foreign regulatory authorities in jurisdictions in which we conduct our business. The laws that may affect our ability to operate are described in the following paragraphs:

- The U.S. federal Anti-Kickback Statute prohibits, among other things, persons or entities from knowingly and willfully soliciting, offering, receiving or paying any remuneration (including any kickback, bribe or certain rebates), directly or indirectly, overtly or covertly, in cash or in kind, to induce or reward either the referral of an individual for, or the purchase, lease, order or recommendation of, any good, facility, item or service, for which payment may be made, in whole or in part, under U.S. federal and state healthcare programs such as Medicare and Medicaid. Moreover, the ACA provides that the government may assert that a violation of the federal Anti-Kickback Statute also constitutes a false or fraudulent claim for purposes of the civil False Claims Act, or FCA.
- The federal civil and criminal false claims, including the civil FCA, that can be enforced by private citizens through civil whistleblower or qui tam actions, prohibit individuals or entities from, among other things, knowingly presenting, or causing to be presented, to the federal government, claims for payment that are false or fraudulent or making a false statement to avoid, decrease or conceal an obligation to pay money to the federal government. No specific intent to defraud is required under the civil FCA. The criminal FCA provides for criminal penalties for submitting false claims, including imprisonment and criminal fines.
- The Civil Monetary Penalty Act of 1981 and implementing regulations impose penalties against any person or entity that, among other things, is determined to have presented or caused to be presented a claim to a federal healthcare program that the person knows or should know is for an item or service that was not provided as claimed or is false or fraudulent, or offering or transferring remuneration to a federal healthcare beneficiary that a person knows or should know is likely to influence the beneficiary's decision to order or receive items or services reimbursable by the government from a particular provider or supplier.
- The Health Insurance Portability and Accountability Act, or HIPAA, imposes criminal and civil liability for, among other things, knowingly and willfully executing, or attempting to execute, a scheme to defraud any healthcare benefit program or knowingly and willfully falsifying, concealing or covering up a material fact or making any materially false statement, in connection with the delivery of, or payment for, healthcare benefits, items or services. Similar to the U.S. federal Anti-Kickback Statute, a person or entity does not need to have actual knowledge of the statute or specific intent to violate it in order to have committed a violation.
- HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act of 2009, or HITECH, and its implementing regulations, as amended again by the Modifications to the HIPAA Privacy, Security, Enforcement and Breach Notification Rules Under HITECH and the Genetic Information Nondiscrimination Act and Other Modifications to the HIPAA Rules, commonly referred to as the Final HIPAA Omnibus Rule, published in January 2013, impose certain obligations, including mandatory contractual terms, on covered entities subject to the Final HIPAA Omnibus Rule, *i.e.*, health plans, healthcare clearinghouses and healthcare providers, and their business associates that perform certain services for or on their behalf involving the use or disclosure of individually identifiable health information as well as their covered subcontractors with respect to safeguarding the privacy, security and transmission of individually identifiable health information.

- The U.S. Federal Food, Drug and Cosmetic Act prohibits, among other things, the adulteration or misbranding of drugs, biologics and medical devices.
- The federal Physician Payments Sunshine Act requires applicable manufacturers of covered drugs, medical devices, biologics and medical supplies for which payment is available under Medicare, Medicaid or the Children’s Health Insurance Program, with specific exceptions, to annually report to Centers for Medicare & Medicaid Services, or CMS, information regarding payments and other transfers of value made to covered recipients, including physicians (defined to include doctors, dentists, optometrists, podiatrists and chiropractors), certain non-physician healthcare professionals (such as physician assistants and nurse practitioners, among others), and teaching hospitals as well as information regarding ownership and investment interests held by physicians and their immediate family members.
- The distribution of pharmaceutical products is subject to additional requirements and regulations, including extensive record-keeping, licensing, price reporting, storage and security requirements intended to prevent the unauthorized sale of pharmaceutical products. Pricing and rebate programs must also comply with the Medicaid rebate requirements of the U.S. Omnibus Budget Reconciliation Act of 1990 and more recent requirements in the ACA. If products are made available to authorized users of the Federal Supply Schedule of the General Services Administration, additional laws and requirements apply. Manufacturing, sales, promotion and other activities also are potentially subject to federal and state consumer protection and unfair competition laws.
- Analogous state laws and regulations impose additional obligations, including: state anti-kickback and false claims laws, which may apply to our business practices, including, but not limited to, research, distribution, sales and marketing arrangements and claims involving healthcare items or services reimbursed by any third-party payor, including private insurers; state laws that require pharmaceutical companies to comply with the pharmaceutical industry’s voluntary compliance guidelines and the relevant compliance guidance promulgated by the U.S. federal government, or otherwise restrict payments that may be made to healthcare providers and other potential referral sources; state laws and regulations that require drug manufacturers to file reports relating to pricing and marketing information, which requires tracking gifts and other remuneration and items of value provided to healthcare professionals and entities; state and local laws requiring the registration of pharmaceutical sales representatives; and state laws governing the privacy and security of health information in certain circumstances, many of which differ from each other in significant ways and often are not preempted by HIPAA, thus complicating compliance efforts.
- European and other foreign law equivalents of each of the laws also impose legal requirements, including reporting requirements detailing interactions with and payments to healthcare providers.

Ensuring that our internal operations and future business arrangements with third parties comply with applicable healthcare laws and regulations will involve substantial costs. It is possible that governmental authorities will conclude that our business practices do not comply with current or future statutes, regulations, agency guidance or case law involving applicable fraud and abuse or other healthcare laws and regulations. If our operations are found to be in violation of any of the laws described above or any other governmental laws and regulations that may apply to us, we may be subject to significant penalties, including civil, criminal and administrative penalties, damages, fines, exclusion from U.S. government funded healthcare programs, such as Medicare and Medicaid, or similar programs in other countries or jurisdictions, disgorgement, imprisonment, contractual damages, reputational harm, diminished profits, additional reporting requirements and oversight, and the delay, reduction, termination or restructuring of our operations. Further, defending against any such actions can be costly and time-consuming, and may require significant financial and personnel resources. Therefore, even if we are successful in defending against any such actions that may be brought against us, our business may be impaired. If any of the physicians or other providers or entities with whom we expect to do business is found not to be in compliance with applicable laws, they may be subject to significant criminal, civil or administrative sanctions, including exclusions from government funded healthcare programs and imprisonment. If any of the above occur, it could adversely affect our ability to operate our business and our results of operations.



***If we, our employees, independent contractors, principal investigators, consultants, vendors or agents acting on our behalf fail to comply with healthcare laws and regulatory requirements, we could be subject to fines, penalties or enforcement actions, or incur costs that could have a material adverse effect on our business.***

We are exposed to the risk of employee fraud or other misconduct as well as risks of noncompliance by contractors or agents acting on our behalf. Misconduct by employees and independent contractors, such as principal investigators, consultants and vendors, could include intentional failures to comply with FDA regulations, to provide accurate information to the FDA, to comply with health care fraud and abuse laws, to report financial information or data accurately or to disclose unauthorized activities to us. In particular, research, sales, marketing and business arrangements in the health care industry are subject to extensive laws intended to prevent fraud, misconduct, kickbacks, self-dealing and other abusive practices. These laws may restrict or prohibit a wide range of research, pricing, discounting, marketing and promotion, sales commission, customer incentive programs and other business arrangements. Employee and independent contractor misconduct could also involve the improper use of information obtained in the course of clinical trials, which could result in regulatory sanctions and serious harm to our reputation. We have adopted a written code of business conduct and ethics, but it is not always possible to identify and deter employee or independent contractor misconduct, and the precautions we take to detect and prevent this activity may not be effective in controlling unknown or unmanaged risks or losses or in protecting us from governmental investigations or other actions or lawsuits stemming from a failure to comply with these laws or regulations. If any such actions are instituted against us and we are not successful in defending ourselves or asserting our rights, those actions could have a significant impact on our business, including the imposition of significant fines, exclusion from participation in government-funded healthcare programs, or other sanctions.

***If we do not comply with laws regulating the protection of the environment and health and human safety, our business could be adversely affected.***

We are subject to numerous environmental, health and safety laws and regulations, including those governing laboratory procedures and the handling, use, storage, treatment and disposal of hazardous materials and wastes. Our research and development involve, and may in the future involve, the use of potentially hazardous materials and chemicals. Our operations may produce hazardous waste products. Although we believe that our safety procedures for handling and disposing of these materials comply with the standards mandated by local, state and federal laws and regulations, the risk of accidental contamination or injury from these materials cannot be eliminated. If an accident occurs, we could be held liable for resulting damages, which could be substantial. We are also subject to numerous environmental, health and workplace safety laws and regulations and fire and building codes, including those governing laboratory procedures, exposure to blood-borne pathogens, use and storage of flammable agents and the handling of biohazardous materials. Although we maintain workers' compensation insurance as prescribed by the State of California to cover us for costs and expenses, we may incur costs and expenses due to injuries to our employees resulting from the use of these materials, as this insurance may not provide adequate coverage against potential liabilities. We do not maintain insurance for environmental liability or toxic tort claims that may be asserted against us. Additional laws and regulations affecting our operations may be adopted in the future. Current or future laws and regulations may impair our research, development or commercialization efforts. We may incur substantial costs to comply with, and substantial fines or penalties if we violate, any of these laws or regulations.

***Disruptions at the FDA, SEC or other government agencies caused by funding shortages or global health concerns could hinder their ability to hire and retain key leadership and other personnel, prevent new products and services from being developed or commercialized in a timely manner or otherwise prevent those agencies from performing normal business functions on which the operation of our business may rely, which could negatively impact our business.***

The ability of the FDA to review and approve new products can be affected by a variety of factors, including government budget and funding levels and the ability to hire and retain key personnel. Average review times at the agency have fluctuated in recent years as a result. In addition, government funding of the SEC and other government agencies on which our operations may rely, including those that fund research and development activities, is subject to the political process, which is inherently fluid and unpredictable. For example, the U.S. government has shut down in the past, forcing regulatory authorities such as the FDA and SEC to furlough employees, and in response to the COVID-19 pandemic, the FDA has postponed certain inspections. If global health concerns or other causes continue to prevent the FDA or other regulatory authorities from conducting their normal operations, such as regular inspections, reviews, or other regulatory activities in a timely manner, or if the FDA and other agencies experience other delays, backlogs or disruptions, it could significantly impact the ability of the FDA or other regulatory authorities to timely review and process our regulatory submissions, which could have a material adverse effect on our business.



***Our business activities may be subject to the Foreign Corrupt Practices Act and similar anti-bribery and anti-corruption laws, as well as U.S. and certain foreign export controls, trade sanctions and import laws and regulations, all of which can subject us to criminal liability and other serious consequences for violations.***

Our business activities may be subject to the Foreign Corrupt Practices Act, or FCPA, and similar anti-bribery or anti-corruption laws, regulations or rules of other countries in which we operate. These laws generally prohibit companies and their employees and third-party business partners, representatives and agents from engaging in corruption and bribery, including offering, promising, giving or authorizing the provision of anything of value, either directly or indirectly, to a government official or commercial party in order to influence official action, direct business to any person, gain any improper advantage, or obtain or retain business. The FCPA also requires public companies to make and keep books and records that accurately and fairly reflect the transactions of the corporation and to devise and maintain an adequate system of internal accounting controls. Our business is heavily regulated and therefore involves significant interaction with government officials, including officials of non-U.S. governments.

Additionally, in many countries, healthcare providers are employed by the government, and the purchasers of biopharmaceuticals are government entities. As a result, our dealings with these providers and purchasers are subject to regulation and such healthcare providers and employees of such purchasers may be considered “foreign officials” as defined in the FCPA. Recently, the SEC and Department of Justice have increased their FCPA enforcement activities with respect to biotechnology companies. In addition to our own employees, we leverage third parties to conduct our business abroad, such as obtaining government licenses and approvals. We and our third-party business partners, representatives and agents may have direct or indirect interactions with officials and employees of government agencies, state-owned or affiliated entities and we may be held liable for the corrupt or other illegal activities of our employees, our third-party business partners, representatives and agents, even if we do not explicitly authorize such activities. There is no certainty that our employees or the employees of our third-party business partners, representatives and agents will comply with all applicable laws and regulations, particularly given the high level of complexity of these laws. Violations of these laws and regulations could result in whistleblower complaints, adverse media coverage, investigations, loss of export privileges, debarment from U.S. government contracts, substantial diversion of management’s attention, significant legal fees and fines, severe criminal or civil sanctions against us, our officers or our employees, disgorgement and other penalties and remedial measures and prohibitions on the conduct of our business. Any such violations could include prohibitions on our ability to offer our products in one or more countries and could materially damage our reputation, our brand, our international expansion efforts, our ability to attract and retain employees, and our business, prospects, operating results, financial condition and stock price.

In addition, our products may be subject to U.S. and foreign export controls, trade sanctions and import laws and regulations. Governmental regulation of the import or export of our products, or our failure to obtain any required import or export authorization for our products, when applicable, could harm our business. Furthermore, U.S. export control laws and economic sanctions prohibit the provision of certain products and services to countries, governments and persons targeted by U.S. sanctions. If we fail to comply with export and import regulations and such economic sanctions, penalties could be imposed, including fines and/or denial of certain export privileges.

***Data collection under European and U.S. laws is governed by restrictive regulations addressing the collection, use, processing and, in the case of Europe, cross-border transfer, of personal information (i.e., information that relates to an identified or identifiable individual).***

We may collect, process, use or transfer personal information from individuals located in the European Economic Area, or EEA, Switzerland and the United Kingdom in connection with our business, including in connection with conducting clinical trials in these regions.

Additionally, if any of our product candidates are approved, we may seek to commercialize those products in the EEA or the United Kingdom or Switzerland. The collection and use of personal information (which includes health data) in the EEA is governed, in part, by the provisions of the General Data Protection Regulation (EU) 2016/679, or the GDPR, or its UK equivalent, the UK GDPR, or the new Swiss Federal Act on Data Protection, or FADP. These regulations impose requirements relating to having a legal basis for processing personal information and transferring such information outside of the EEA, the United Kingdom and Switzerland, respectively, as applicable, including to the United States, informing concerned individuals about the processing of their personal information, keeping personal information secure, having data processing agreements with third parties who process personal information on our behalf, responding to individuals’ requests to exercise their rights in respect of their personal information, reporting security breaches involving personal information to the competent national data protection authority and affected individuals, appointing data protection officers, conducting data protection impact assessments and record-keeping.

Any actual or alleged failure to comply with the GDPR, UK GDPR, FADP, or related national data protection laws may result in regulatory inquiries and other proceedings, substantial fines, other administrative penalties and civil claims being brought against us, which could have a material adverse effect on our business, financial condition and results of operations.

The GDPR, UK GDPR and FADP also restrict the transfer of personal information outside of the EEA, United Kingdom and Switzerland respectively, unless appropriate safeguards are in place.

One of the primary safeguards, the Standard Contractual Clauses adopted by the European Commission, has been recently updated. With regard to data transfers outside of the EEA to the United States, in March 2022, the European Union and United States announced a political agreement on a new framework for personal information transfers, the EU-U.S. Data Privacy Framework, or the EU-U.S. DPF. On July 10, 2023, the European Commission adopted an adequacy decision relating to the EU-U.S. DPF. Additionally, a UK Extension to the EU-U.S. DPF became effective on October 12, 2023. We are evaluating whether to make use of the EU-U.S. DPF and the UK Extension to the EU-U.S. DPF to transfer personal information from the EEA to the United States.

Further, Brexit has created uncertainty with regard to data protection regulation in the United Kingdom. Although the European Commission granted “adequacy” status to the United Kingdom in June 2021, and personal information can flow from the European Union to the United Kingdom and back, the United Kingdom is expected to change its policy with respect to the export of personal information to third countries, such as the United States, and the European Commission’s adequacy determination for the United Kingdom requires renewal after four years and may be modified or revoked in the interim. In addition, in February 2022, the United Kingdom’s Information Commissioner’s Office issued new Standard Contractual Clauses for the transfer of personal information outside of the United Kingdom. Any existing data transfer arrangement that relies on the previous version of the Standard Contractual Clauses needs to be updated by March 21, 2024, which could increase our costs.

We may, therefore, incur liabilities, expenses, costs, and other operational losses under the GDPR, UK GDPR, the FADP and applicable laws and regulations of European Union member states in connection with any measures we take to comply with them.

In addition, U.S. states are adopting new laws or amending existing laws, requiring attention to frequently changing regulatory requirements related to personal information. For example, California enacted the California Consumer Privacy Act, or the CCPA, in 2018, which took effect on January 1, 2020 and has been dubbed the first “GDPR-like” law in the United States. The CCPA gives California residents expanded rights to access and delete their personal information, opt out of certain personal information sharing and receive detailed information about how their personal information is used by requiring covered companies to provide new disclosures to California consumers (as that term is broadly defined and which can include any of our current or future employees who may be California residents or any other California residents whose data we collect or process) and provide such residents new ways to opt out of certain sales of personal information. The CCPA provides for civil penalties for violations, as well as a private right of action for data breaches that is expected to increase data breach litigation.

Additionally, a new privacy law, the California Privacy Rights Act, or the CPRA, was approved by California voters in November 2020. The CPRA modifies the CCPA significantly, potentially resulting in further uncertainty and requiring us to incur additional costs and expenses in an effort to comply. Other states are beginning to consider and pass similar laws, including laws enacted in Colorado, Connecticut, Delaware, Florida, Indiana, Iowa, Montana, Oregon, Tennessee, Texas, Utah, and Virginia. As we expand our operations, preclinical studies and clinical trials, these new state laws and other state laws and regulations relating to privacy and data security may increase our compliance costs and potential liability. Privacy and data security laws and regulations are not consistent across jurisdictions, and they may impose conflicting or uncertain obligations. Compliance with these and any other applicable privacy and data security laws and regulations is a rigorous, costly and time-intensive process, and we may be required to put in place additional mechanisms ensuring compliance with new and changing data protection obligations under these laws and regulations. Actual or alleged noncompliance with any such laws and regulations may lead to regulatory investigations, enforcement actions, claims and litigation, and if we fail to comply with any such laws or regulations, we may face significant fines and penalties. Any of these could adversely affect our business, financial condition and results of operations.

## **Risks Related to Intellectual Property**

***If we are unable to obtain, maintain and enforce patent protection for our product candidates and related technology, our business could be materially harmed.***

Our strategy depends on our ability to identify, seek, obtain and maintain patent protection for our product candidates and other research and development discoveries. Our patent portfolio is relatively small compared to many large and more established pharmaceutical and biotechnology companies. As our patent portfolio grows, we expect patent protection will continue to be an important part of our strategy. The patent protection process is expensive and time-consuming, and we may not be able to file and prosecute all necessary or desirable patent applications or maintain and enforce any patents that may issue from such patent applications, at a reasonable cost or in a timely manner or in all jurisdictions where protection may be commercially advantageous. It is also possible that we will fail to identify patentable aspects of our research and development discoveries in a timely manner to obtain patent protection. Moreover, in some circumstances, we may not have the right to control the preparation, filing and prosecution of patent applications, or to maintain the patents, covering technology that we have licensed from third parties. Therefore, our in-licensed patents and patent applications may not be prosecuted and enforced in a manner consistent with the best interests of our business. Our patent applications cannot be enforced against third parties practicing the technology claimed in such applications unless, and until, patents issue from such applications, and then only to the extent the issued claims cover the technology. The patent applications that we own or in-license may fail to result in issued patents with claims that cover our current and future product candidates in the United States or in foreign countries or may fail to effectively prevent third parties from commercializing competitive product candidates.

The patent position of biotechnology companies generally is highly uncertain, involves complex legal and factual questions, and has in recent years been the subject of much litigation. We may be subject to a third-party pre-issuance submission of prior art to the U.S. Patent and Trademark Office, or USPTO, and such prior art may affect the scope of any allowable claims or it may prevent our patent applications from issuing as patents. Further, the issuance of a patent does not ensure that it is valid or enforceable, nor is the issuance conclusive as to inventorship or the scope of any claims. Third parties may challenge the validity, enforceability or scope of our issued patents or claim that they should be inventors on such patents, and such patents may be narrowed, invalidated, circumvented or deemed unenforceable and such third parties may gain rights to such patents. We could also become involved in reexamination, *inter partes* review, post-grant review, opposition or derivation proceedings challenging our patent rights or the patent rights of others.

In addition, changes in law may introduce uncertainty in the enforceability or scope of patents we own. If our patents are narrowed, invalidated or held unenforceable, third parties may be able to commercialize our technology or products and compete directly with us without payment to us. There is no assurance that all potentially relevant prior art relating to our patents and patent applications has been found, and such prior art could potentially invalidate one or more of our patents or prevent a patent from issuing from one or more of our pending patent applications. There is also no assurance that there is no prior art that may ultimately be found to affect the validity or enforceability of a claim. Furthermore, even if our patents are unchallenged, they may not adequately protect our intellectual property, provide exclusivity for our product candidates, prevent others from designing around our claims or provide us with a competitive advantage. The legal systems of certain countries do not favor the aggressive enforcement of patents, and the laws of foreign countries may not allow us to protect our inventions with patents to the same extent as the laws of the United States. Because patent applications in the United States and many foreign jurisdictions are typically not published until 18 months after filing, or in some cases not at all, and because publications of discoveries in scientific literature lag behind actual discoveries, we cannot be certain that we were the first to make the inventions claimed in our issued patents or pending patent applications, or that we were the first to file for protection of the inventions set forth in our patents or patent applications. As a result, we may not be able to obtain or maintain protection for certain inventions.

For all of the foregoing reasons, the issuance, validity, enforceability, scope and commercial value of our patents in the United States and in foreign countries cannot be predicted with certainty and, as a result, any patents that we own or license may not provide sufficient protection against competitors. We may not be able to obtain or maintain patent protection from our pending patent applications, from those we may file in the future, or from those we may license from third parties. Moreover, even if we are able to obtain patent protection, such patent protection may be of insufficient scope to achieve our business objectives. In addition, the issuance of a patent does not give us the right to practice the patented invention. Third parties may have blocking patents that could prevent us from marketing our own patented product and practicing our own patented technology.

***We may not be able to protect our intellectual property rights throughout the world.***

Filing, prosecuting and defending patents on product candidates in all countries throughout the world would be prohibitively expensive, and our intellectual property rights in some countries outside the United States can be less extensive than those in the United States. In addition, the laws of some foreign countries do not protect intellectual property rights to the same extent as federal and state laws in the United States. Consequently, we may not be able to prevent third parties from practicing our inventions in all countries outside the United States, or from selling or importing products made using our inventions in and into the United States or other jurisdictions. Competitors may use our technologies to develop their own products in jurisdictions where we have not obtained patent protection and further, may export otherwise infringing products to territories where we have patent protection, but enforcement is not as strong as that in the United States. These products may compete with our current or future products, if any, and our patents or other intellectual property rights may not be valid or sufficient to prevent them from competing.

Many companies have encountered significant problems in protecting and defending intellectual property rights in foreign jurisdictions. The legal systems of certain countries, particularly certain developing countries, do not favor the enforcement of patents, trade secrets and other intellectual property protection, particularly those relating to biotechnology products, which could make it difficult for us to stop the infringement of our patents or marketing of competing products in violation of our proprietary rights generally. Beginning June 1, 2023, European patent applications and patents may be subjected to the jurisdiction of the Unified Patent Court, or UPC. Also, European patent applications will have the option, upon grant of a patent, of becoming a Unitary Patent, which will be subject to the jurisdiction of the UPC. The UPC and Unitary Patent are significant changes in European patent practice. As the UPC is a new court system, there is no precedent for the court, increasing the uncertainty of any litigation in the UPC. Proceedings to enforce our patent rights in foreign jurisdictions could result in substantial costs and divert our efforts and attention from other aspects of our business, could put our patents at risk of being invalidated or interpreted narrowly and our patent applications at risk of not issuing and could provoke third parties to assert claims against us. We may not prevail in any court proceedings to enforce our intellectual property rights, and the damages or other remedies awarded to us, if any, may not be commercially meaningful. Accordingly, our efforts to enforce our intellectual property rights around the world may be inadequate to obtain a significant commercial advantage from the intellectual property that we develop or license.

Geopolitical actions in the United States and in foreign countries could increase the uncertainties and costs surrounding the prosecution or maintenance of our patent applications or those of any current or future licensors and the maintenance, enforcement or defense of our issued patents or those of any current or future licensors. For example, the United States and foreign government actions related to Russia's invasion of Ukraine may limit or prevent filing, prosecution and maintenance of patent applications in Russia. Government actions may also prevent maintenance of issued patents in Russia, as well as maintenance of Eurasian patents in Russia. These actions could result in abandonment or lapse of our patents or patent applications, resulting in partial or complete loss of patent rights in Russia. Currently our portfolio includes two granted patents in Russia, one granted patent in Eurasia, and one pending application in Eurasia.

Additionally, the requirements for patentability may differ in certain countries. For example, in certain countries, there is no link between regulatory approval of a drug and its patent status, and patenting of medical uses of a claimed drug are prohibited. In addition, certain countries in Europe and other countries, including China, have compulsory licensing laws under which a patent owner may be compelled to grant licenses to third parties. In those countries, we and our licensors may have limited remedies if patents are infringed or if we or our licensors are compelled to grant a license to a third party, which could materially diminish the value of those patents. This could limit our potential revenue opportunities. Accordingly, our efforts to enforce intellectual property rights around the world may be inadequate to obtain a significant commercial advantage from the intellectual property that we own or license.

***Obtaining and maintaining our patent protection depends on compliance with various procedural, documentary, fee payment and other requirements imposed by regulations and governmental patent agencies, and our patent protection could be reduced or eliminated for non-compliance with these requirements.***

Periodic maintenance fees, renewal fees, annuity fees and various other governmental fees on patents or applications will be due to the USPTO and various foreign patent offices at various points over the lifetime of our patents or applications. We have systems in place to remind us to pay these fees, and we rely on our outside patent annuity service to pay these fees automatically when due, but we must notify the provider of any new patents or applications. Additionally, the USPTO and various foreign patent offices require compliance with many procedural, documentary, fee payment and other similar provisions during the patent application process. We employ reputable law firms and other professionals to help us comply, and in many cases, an inadvertent lapse can be cured by payment of a late fee or by other means in accordance with rules applicable to the particular jurisdiction. However, there are situations in which noncompliance can result in abandonment or lapse of the patent or patent application, resulting in partial or complete loss of patent rights in the relevant jurisdiction. If such an event were to occur, it could have a material adverse effect on our business.

***Changes in patent laws or patent jurisprudence could diminish the value of patents in general, thereby impairing our ability to protect our product candidates.***

The patent positions of biotechnology companies can be highly uncertain and involve complex legal and factual questions for which important legal principles remain unresolved. Changes in either the patent laws or in the interpretations of patent laws in the United States and other countries may diminish the value of our intellectual property. We cannot predict the breadth of claims that may be allowed or found to be enforceable in our patents or in third-party patents. The United States has enacted and implemented wide-ranging patent reform legislation. Further, recent U.S. Supreme Court rulings have either narrowed the scope of patent protection available in certain circumstances or weakened the rights of patent owners in certain situations. In addition to increasing uncertainty with regard to our ability to obtain patents in the future, this combination of events has created uncertainty with respect to the validity, scope and value of patents, once obtained.

For our U.S. patent applications containing a priority claim after March 16, 2013, there is a higher level of uncertainty in the patent law. In September 2011, the Leahy-Smith America Invents Act, also known as the America Invents Act, or AIA, was signed into law. The AIA includes a number of significant changes to U.S. patent law, including provisions that affect the way patent applications are prosecuted and may also affect patent litigation. The AIA and its implementation may increase the uncertainties and costs surrounding the prosecution of our patent applications and the enforcement or defense of our issued patents, all of which could have an adverse effect on our business. An important change introduced by the AIA is that, as of March 16, 2013, the United States transitioned to a "first-to-file" system for deciding which party should be granted a patent when two or more patent applications are filed by different parties disclosing or claiming the same invention. A third party that has filed, or does file a patent application in the USPTO after March 16, 2013 but before us, could be awarded a patent covering a given invention, even if we had made the invention before it was made by the third party. This requires us to be cognizant going forward of the time from invention to filing of a patent application.



Among some of the other changes introduced by the AIA are changes that limit where a patentee may file a patent infringement suit and providing opportunities for third parties to file third party submissions of prior art to the USPTO during patent prosecution and to challenge any issued patent in the USPTO (e.g., via post-grant reviews or *inter partes* reviews). Because of a lower evidentiary standard in USPTO proceedings compared to the evidentiary standard in U.S. federal court necessary to invalidate a patent claim, a third party could potentially provide evidence in a USPTO proceeding sufficient for the USPTO to hold a claim invalid even though the same evidence would be insufficient to invalidate the claim if first presented in a district court action. Accordingly, a third party may attempt to use the USPTO procedures to invalidate our patent claims that would not have been invalidated if first challenged by the third party as a defendant in a district court action.

Depending on decisions by the U.S. Congress, the U.S. federal courts, the USPTO or similar authorities in foreign jurisdictions, the laws and regulations governing patents could change in unpredictable ways that may weaken our and our licensors' ability to obtain new patents or to enforce existing patents we and our licensors or partners may obtain in the future.

***Our patents covering one or more of our product candidates could be found invalid or unenforceable if challenged.***

Any of our intellectual property rights could be challenged or invalidated despite measures we take to obtain patent and other intellectual property protection with respect to our product candidates and proprietary technology. For example, if we were to initiate legal proceedings against a third party to enforce a patent covering one of our product candidates, the defendant could counterclaim that our patent is invalid and/or unenforceable. In patent litigation in the United States and in some other jurisdictions, defendant counterclaims alleging invalidity and/or unenforceability are commonplace. Grounds for a validity challenge could be an alleged failure to meet any of several statutory requirements, for example, lack of novelty, obviousness or non-enablement. Grounds for an unenforceability assertion could be an allegation that someone connected with prosecution of the patent withheld material information from the USPTO, or the applicable foreign counterpart, or made a misleading statement, during prosecution. A litigant or the USPTO itself could challenge our patents on this basis even if we believe that we have conducted our patent prosecution in accordance with the duty of candor and in good faith. The outcome following such a challenge is unpredictable.

With respect to challenges to the validity of our patents, for example, there might be invalidating prior art, of which the patent examiner and we were unaware during prosecution. If a defendant were to prevail on a legal assertion of invalidity and/or unenforceability, we would lose at least part, and perhaps all, of the patent protection on a product candidate. Even if a defendant does not prevail on a legal assertion of invalidity and/or unenforceability, our patent claims may be construed in a manner that would limit our ability to enforce such claims against the defendant and others. The cost of defending such a challenge, particularly in a foreign jurisdiction, and any resulting loss of patent protection could have a material adverse impact on one or more of our product candidates and our business.

Enforcing our intellectual property rights against third parties may also cause such third parties to file other counterclaims against us, which could be costly to defend, particularly in a foreign jurisdiction, and could require us to pay substantial damages, cease the sale of certain products or enter into a license agreement and pay royalties (which may not be possible on commercially reasonable terms or at all). Any efforts to enforce our intellectual property rights are also likely to be costly and may divert the efforts of our scientific and management personnel.

***Patent terms may be inadequate to protect our competitive position on our product candidates for an adequate amount of time.***

Patents have a limited lifespan. In the United States, if all maintenance fees are timely paid, the natural expiration of a patent is generally 20 years from its earliest U.S. non-provisional filing date. Various extensions may be available, but the life of a patent, and the protection it affords, is limited. Even if patents covering our product candidates are obtained, once the patent life has expired, we may be open to competition from competitive products, including biosimilars. Given the amount of time required for the development, testing and regulatory review of new product candidates, patents protecting such candidates might expire before or shortly after such candidates are commercialized. As a result, our owned and licensed patent portfolio may not provide us with sufficient rights to exclude others from commercializing products similar or identical to ours.

***Patent protection, prosecution, assertion and defense for some of our product candidates may be dependent on third parties.***

There may be times in the future when certain patents that relate to our product candidates or any approved products are controlled by our licensees or licensors, such as with respect to our license agreements. Although we may, under such arrangements, have rights to consult with our strategic partners on actions taken as well as back-up rights of prosecution and enforcement, we have in the past and may in the future relinquish rights to prosecute and maintain patents and patent applications within our portfolio as well as the ability to assert such patents against infringers. If any current or future licensee or licensor with rights to prosecute, assert or defend patents related to our product candidates fails to appropriately prosecute and maintain patent protection for patents covering any of our product candidates, or if patents covering any of our product candidates are asserted against infringers or defended against claims of invalidity or unenforceability in a manner which adversely affects such coverage, our ability to develop and commercialize any such product candidate may be adversely affected and we may not be able to prevent competitors from making, using and selling competing products.



***If we are unable to protect the confidentiality of our trade secrets and proprietary information or obtain proper assignment of such intellectual property, the value of our technology and products could be adversely affected.***

In addition to patent protection, we also rely on other proprietary rights, including protection of trade secrets and other proprietary information. Trade secrets and know-how can be difficult to protect. Trade secrets and know-how can also in some instances be independently derived or reverse-engineered by a third party. We maintain the confidentiality of trade secrets and proprietary information in part by entering into confidentiality agreements with our employees, consultants, other service providers, including Tallac Therapeutics, strategic partners and others upon the commencement of their relationships with us. These agreements require that all confidential information developed by the individual or made known to the individual by us during the course of the individual's relationship with us be kept confidential and not disclosed to third parties. Our agreements with employees and our personnel policies in addition to our service provider agreements, such as the Tallac Services Agreement, also provide that any inventions conceived by the individual in the course of rendering services to us shall be our exclusive property. However, we may not obtain these agreements in all circumstances, and even when we obtain these agreements, individuals with whom we have these agreements may not comply with their terms. Any of the parties to these agreements may breach such agreements and disclose our proprietary information, including our trade secrets, and we may not be able to obtain adequate remedies for such breaches. In the event of unauthorized use or disclosure of our trade secrets or proprietary information, these agreements, even if obtained, may not provide meaningful protection, particularly for our trade secrets or other confidential information. We may also become involved in inventorship disputes relating to inventions and patents developed by our employees, consultants, contractors and other service providers, such as Tallac Therapeutics, under such agreements. To the extent that our employees, consultants, contractors or other service providers use technology or know-how owned by third parties in their work for us, disputes may arise between us and those third parties as to the rights in related inventions. To the extent that an individual who is not obligated to assign rights in intellectual property to us is rightfully an inventor of intellectual property, we may need to obtain an assignment or a license to that intellectual property from that individual, or a third party or from that individual's assignee. Such assignment or license may not be available on commercially reasonable terms or at all.

Enforcing a claim that a party illegally disclosed or misappropriated a trade secret is difficult, expensive and time-consuming and the outcome is unpredictable. In addition, some courts in the United States and certain foreign jurisdictions are less willing or unwilling to protect trade secrets. The disclosure of our trade secrets would impair our competitive position and may materially harm our business, financial condition and results of operations. Costly and time-consuming litigation could be necessary to enforce and determine the scope of our proprietary rights, and failure to maintain trade secret protection could adversely affect our competitive business position. In addition, if any of our trade secrets were to be lawfully obtained or independently developed by a competitor, we would have no right to prevent such third party, or those to whom they communicate such technology or information, from using that technology or information to compete with us. If any of our trade secrets were to be disclosed to or independently developed by a competitor or if we otherwise lose protection for our trade secrets or proprietary know-how, the value of this information may be greatly reduced, and our business and competitive position could be harmed. Adequate remedies may not exist in the event of unauthorized use or disclosure of our proprietary information.

***We may become involved in lawsuits to protect or enforce our patents and trade secrets, which could be expensive, time-consuming and unsuccessful.***

Third parties may seek approval to market their own products similar to or otherwise competitive with our product candidates or biosimilar versions of any approved product candidates. In these circumstances, we may need to defend or assert our patents, including by filing lawsuits alleging patent infringement. If we were to initiate legal proceedings against a third party to enforce a patent covering our product candidates, the defendant could counterclaim that the patent covering our product candidate is invalid and/or unenforceable. In patent litigation in the United States, defendant counterclaims alleging invalidity and/or unenforceability are commonplace. Grounds for an invalidity challenge could be an alleged failure to meet any of several statutory requirements, including lack of novelty, obviousness, written description or enablement. Grounds for an unenforceability assertion could be an allegation that someone connected with prosecution of the patent withheld relevant information from the USPTO, or made a misleading statement, during prosecution. The outcome following legal assertions of invalidity and unenforceability is unpredictable. In any of these types of proceedings, a court or agency with jurisdiction may find our patents invalid or unenforceable. Even if we have valid and enforceable patents, these patents still may not provide protection against competing products sufficient to achieve our business objectives.

Even after they have issued, our patents and any patents that we license may be challenged, narrowed, invalidated or circumvented. If our patents are invalidated or otherwise limited or will expire prior to the commercialization of our product candidates, other companies may be better able to develop products that compete with ours, which could adversely affect our competitive business position, business prospects and financial condition. In addition, if the breadth or strength of protection provided by our patents and patent applications is threatened, it could dissuade companies from collaborating with us to license, develop or commercialize current or future product candidates.

The following are examples of litigation and other adversarial proceedings or disputes that we could become a party to involving our patents or patents licensed to us:

- we may initiate litigation or other proceedings against third parties to enforce our patent and trade secret rights;
- third parties may initiate litigation or other proceedings seeking to invalidate patents owned by or licensed to us or to obtain a declaratory judgment that their product or technology does not infringe our patents or patents licensed to us;
- third parties may initiate opposition or other proceedings challenging the validity or scope of our patent rights, requiring us and/or licensors to participate in such proceedings to defend the validity and scope of our patents;
- there may be a challenge or dispute regarding inventorship or ownership of patents or trade secrets currently identified as being owned by or licensed to us, including disputes that may arise from our reliance on Tallac Therapeutics as the current sole provider of our preclinical research services and the intellectual property generated under the Tallac Services Agreement; or
- third parties may seek approval to market biosimilar versions of our future approved products prior to the expiration of relevant patents owned by or licensed to us under the Biologics Price Competition and Innovation Act of 2009, requiring us to defend our patents, including by filing lawsuits alleging patent infringement.

Any litigation or other proceedings would be costly and could affect our results of operations and divert the attention of our management and scientific personnel. Some of our competitors may be able to sustain the cost of such litigation and proceedings more effectively than we can because of their substantially greater resources. There is a risk that a court would decide that we are infringing the third party's patents and would order us to stop the activities covered by the patents. In that event, we may not have a viable alternative to the technology protected by the patent and may need to halt work on the affected product candidate or cease commercialization of an approved drug. In addition, there is a risk that a court will order us to pay third party damages or some other monetary award, depending upon the jurisdiction. An adverse outcome in any litigation or other proceeding could subject us to significant liabilities to third parties, potentially including treble damages and attorneys' fees if we are found to have willfully infringed, and we may be required to cease using the technology that is at issue or to license the technology from third parties. We may not be able to obtain any required licenses on commercially acceptable terms or at all. We may not be able to prevent, alone or with our licensors, infringement or misappropriation of our intellectual property rights, particularly in countries where the laws may not protect those rights as fully as in the United States. Any litigation or other proceedings to enforce our intellectual property rights may fail, and even if successful, may result in substantial costs and distract our management and other employees.

In addition, because of the substantial amount of discovery required in connection with intellectual property litigation, there is a risk that some of our confidential information could be compromised by disclosure during this type of litigation. There could also be public announcements of the results of hearings, motions or other interim proceedings or developments. If securities analysts or investors perceive these results to be negative, it could have an adverse effect on the price of our common stock. In addition, any uncertainties resulting from the initiation and continuation of any litigation could have a material adverse effect on our ability to raise additional funds or on our business, results of operations, financial condition and prospects. Any of these outcomes could have a material adverse effect on our business.

***We may be subject to claims that we or our employees or consultants have wrongfully used or disclosed alleged trade secrets or other proprietary information of our employees' or consultants' former employers or their clients.***

We employ individuals who were previously or concurrently employed at research institutions and/or other biotechnology or pharmaceutical companies, including our competitors or potential competitors. We may be subject to claims that these employees, or we, have inadvertently or otherwise used or disclosed trade secrets or other proprietary information of their former employers, or that patents and applications we have filed to protect inventions of these employees, even those related to one or more of our product candidates, are rightfully owned by their former or concurrent employer. Litigation may be necessary to defend against these claims. If we fail in defending such claims, in addition to paying monetary damages, trade secrets or other proprietary information could be awarded to a third party, and we could be required to obtain a license from such third party to commercialize our technology or products. Such license may not be available on commercially reasonable terms or at all. A loss of key research personnel or their work product could limit our ability to commercialize, or prevent us from commercializing, our current or future technologies or product candidates, which could materially harm our business. Even if we are successful in defending against these claims, litigation would expose us to the risk described above under "We may become involved in lawsuits to protect or enforce our patents and trade secrets, which could be expensive, time-consuming and unsuccessful."

***Our commercial success depends in part on our ability to operate without infringing the patents and other proprietary rights of third parties.***

Our success will depend in part on our ability to operate without infringing the proprietary rights of third parties. Other entities may have or obtain patents or proprietary rights that could limit our ability to make, use, sell, offer for sale or import our future approved products or impair our competitive position. Our research, development and commercialization activities may be subject to claims that we infringe or otherwise violate patents or other intellectual property rights owned or controlled by third parties.

We are aware of third-party patents and patent applications containing claims in the immuno-oncology field based on scientific approaches that are the same as or similar to our approach, including with respect to the targeting of the CD47 and signal regulatory protein alpha, or SIRP $\alpha$ , pathways, and others that are based on entirely different approaches. These patents and applications could potentially be construed to cover our product candidates and their use. For example, we are aware of U.S. patent 10,907,209 and U.S. patent application 16/118,038 (and related applications in other jurisdictions) owned by University Health Network, or UHN, and The Hospital for Sick Children that may encompass certain therapies for the treatment of cancer using polypeptides comprising soluble human SIRP $\alpha$ . This patent and patent application relate to the treatment of cancer with polypeptides comprising soluble human SIRP $\alpha$ . Pfizer, through its acquisition of Trillium Therapeutics, has an exclusive license to the U.S. patent and application. The European counterpart patent (EP 2 429 574) was revoked by the Opposition Division of the European Patent Office (Opposition Division) on November 6, 2017. The revocation was appealed by UHN and The Hospital for Sick Children, and on October 18, 2022, the Board of Appeal of the European Patent Office (Board of Appeal) ruled in favor of UHN with respect to the matter on appeal, but remanded the case back to the Opposition Division for consideration of a further ground of invalidity (sufficiency of disclosure). On December 8, 2023, the Opposition Board held that the disclosure in EP 2 429 574 was sufficient and upheld the patent in amended form. On February 15, 2024, the Board of Appeal announced that it had received a notice of appeal with respect to the Opposition Board's ruling regarding sufficiency of disclosure. A date for the appeal hearing has not yet been announced. Additionally, on December 27, 2023, a second European Patent (EP 2 995 315), a divisional of European patent (EP 2 429 574), was granted to UHN and The Hospital for Sick Children. This patent relates to the eradication of hematological CD47+ cancer cells and tumors with polypeptides comprising soluble human SIRP $\alpha$ , or a CD47-binding fragment thereof. On February 27, 2024, the Opposition Division announced that it had received a notice of opposition with respect to EP 2 995 315. A date for the opposition hearing has not yet been announced. The patent claims of both EP 2 429 574 and EP 2 995 315, if not revoked or otherwise limited by the European Patent Office, could potentially limit our ability to pursue evorpcept in certain indications in certain geographies in the future. With respect to U.S. patent 10,907,209, we believe that we do not infringe claims listed in this U.S. patent. As the biotechnology industry expands and more patents are issued, the risk increases that we may be subject to claims of infringement of the patent rights of third parties. There is no assurance that there are not third-party patents or patent applications of which we are aware, but which we do not believe are relevant to our business, which may, nonetheless, ultimately be found to limit our ability to make, use, sell, offer for sale or import our future approved products or impair our competitive position.

Third parties may have or obtain valid and enforceable patents or proprietary rights that could block us from developing product candidates. These patents may not expire before we receive any marketing approval for our product candidates, and they could delay the commercial launch of one or more future product candidates. If our product candidates were to be found to infringe any such patents, and we were unable to invalidate those patents, or if licenses for them are not available on commercially reasonable terms or at all, our business, financial condition and results of operations could be materially harmed. Furthermore, even if a license is available, it may be non-exclusive, which could result in our competitors gaining access to the same intellectual property. Our failure to maintain a license to any technology that we require may also materially harm our business, financial condition and results of operations, and we would be exposed to a threat of litigation.

Any litigation resulting from claims of infringement or failure to license patents and proprietary rights of others would expose us to the risk described above under "We may become involved in lawsuits to protect or enforce our patents and trade secrets, which could be expensive, time-consuming and unsuccessful." Any of the aforementioned threats to our competitive advantage could have a material adverse effect on our business.

***Our intellectual property rights will not necessarily provide us with competitive advantages.***

The degree of future protection afforded by our intellectual property rights is uncertain because intellectual property rights have limitations and may not adequately protect our business or permit us to maintain our competitive advantage. The following examples are illustrative:

- others may be able to make products that are similar to our product candidates but that are not covered by the claims of the patents that we own or have exclusively licensed;
- others may independently develop similar or alternative technologies without infringing our intellectual property rights;
- issued patents that we own or have exclusively licensed may not provide us with competitive advantages, or may be held invalid or unenforceable, as a result of legal challenges by our competitors;

- we may obtain patents for product candidates many years before we obtain marketing approval for such product candidates and because patents have a limited life, which may begin to run prior to the commercial sale of the related product, the commercial value of our patents may be limited;
- our competitors might conduct research and development activities in countries where we do not have patent rights and then use the information learned from such activities to develop competitive products for sale in our major commercial markets;
- we may fail to develop additional proprietary technologies that are patentable;
- the laws of certain foreign countries may not protect our intellectual property rights to the same extent as the laws of the United States, or we may fail to apply for or obtain adequate intellectual property protection in all the jurisdictions in which we operate; and
- the patents of others may have an adverse effect on our business, for example by preventing us from marketing one or more of our product candidates for one or more indications.

Any of the aforementioned threats to our competitive advantage could have a material adverse effect on our business.

***We will need to obtain FDA approval for any proposed product candidate names, and any failure or delay associated with product candidate name approval may adversely affect our business.***

Any proprietary name or trademark we intend to use for our product candidates will require approval from the FDA regardless of whether we have secured a formal trademark registration from the USPTO. The FDA typically conducts a review of proposed product candidate names, including an evaluation of the potential for confusion with other product names and potential pharmacy dispensing errors. The FDA may also object to a product name if it believes the name inappropriately implies certain medical claims or contributes to an overstatement of efficacy. If the FDA objects to any product candidate names we propose, we may be required to adopt an alternative name for our product candidates. If we adopt an alternative name, we will lose the benefit of any existing trademark applications for such product candidate and may be required to expend significant additional resources in an effort to identify a suitable product name that would qualify under applicable trademark laws, not infringe the existing rights of third parties and be acceptable to the FDA. We may be unable to build a successful brand identity for a new trademark in a timely manner or at all, which would limit our ability to commercialize our product candidates.

***Our rights to develop and commercialize our product candidates may be subject, in part, to the terms and conditions of agreements with others.***

Our current agreements do not, and future agreements we may enter into in the future may not, provide exclusive rights to use certain intellectual property and technology retained by a collaborator in all relevant fields of use and in all territories in which we may wish to develop or commercialize our technology and products in the future. As a result, we may not be able to prevent competitors or other third parties from developing and commercializing competitive products that utilize technology retained by such collaborators to the extent such products are not also covered by our intellectual property.

We may need to obtain additional intellectual property rights from others to advance our research or allow commercialization of product candidates we may develop. We may be unable to obtain additional intellectual property rights at a reasonable cost or on reasonable terms, if at all. In that event, we may be required to expend significant time and resources to redesign our technology, product candidates or the methods for manufacturing them or to develop or license replacement technology, all of which may not be feasible on a technical or commercial basis. If we are unable to do so, we may be unable to develop or commercialize the affected product candidates, which could harm our business, financial condition, results of operations and prospects significantly. We cannot provide any assurances that third-party patents do not exist which might be enforced against our current technology, manufacturing methods, product candidates or future methods or products resulting in either an injunction prohibiting our manufacture or future sales, or, with respect to our future sales, an obligation on our part to pay royalties and/or other forms of compensation to third parties, which could be significant.



Furthermore, our current or our future collaborators' patents may be subject to a reservation of rights by one or more third parties. The U.S. government may have certain rights to resulting intellectual property. When new technologies are developed with U.S. government funding, the U.S. government generally obtains certain rights in any resulting patents, including a non-exclusive license authorizing the U.S. government to use the invention or to have others use the invention on its behalf. The U.S. government's rights may also permit it to disclose the funded inventions and technology to third parties and to exercise march-in rights to use or allow third parties to use the technology developed using U.S. government funding. The U.S. government may exercise its march-in rights if it determines that action is necessary because we fail to achieve the practical application of the government funded technology, or because action is necessary to alleviate health or safety needs, to meet requirements of federal regulations, or to give preference to U.S. industry. In addition, our rights in such inventions may be subject to certain requirements to manufacture products embodying such inventions in facilities in the United States in certain circumstances and if this requirement is not waived. Any exercise by the U.S. government of such rights or by any third-party of its reserved rights could have a material adverse effect on our competitive position, business, financial condition, results of operations and prospects.

***If we fail to comply with our obligations in agreements under which we option or license intellectual property rights from collaborators or licensors or otherwise experience disruptions to our business relationships with future collaborators or licensors, we could lose intellectual property rights that are important to our business.***

Our current agreements do, and our future agreements may, impose various economic, development, diligence, commercialization and other obligations on us. Such agreements may also require us to meet development timelines, or to exercise commercially reasonable efforts to develop and commercialize licensed products. It might be concluded that we have materially breached our obligations under such agreements and licensors or collaborators might therefore terminate or seek damages under the agreements, thereby removing or limiting our ability to develop and commercialize products and technology covered by these agreements. Termination of these agreements could cause us to lose the rights to certain patents or other intellectual property, or the underlying patents could fail to provide the intended exclusivity, and competitors or other third parties may have the freedom to seek regulatory approval of, and to market, products similar to or identical to ours and we may be required to cease our development and commercialization of certain of our product candidates. Any of the foregoing could have a material adverse effect on our competitive position, business, financial conditions, results of operations and growth prospects.

Moreover, disputes may arise regarding intellectual property subject to a collaboration agreement, including:

- the scope of the option or license rights granted under the agreement and other interpretation-related issues;
- the extent to which our technology and processes infringe on intellectual property of the collaborator that is not subject to the option or license rights granted under the agreement;
- the sublicensing of patent and other rights under our collaborative development relationships;
- our diligence obligations under the agreement and what activities satisfy those diligence obligations;
- the inventorship and ownership of inventions and know-how resulting from the joint creation or use of intellectual property by our collaborators and us and our other partners; and
- the priority of invention of patented technology.

We may enter into agreements to option or license intellectual property or technology from third parties that are complex, and certain provisions in such agreements may be susceptible to multiple interpretations. The resolution of any contract interpretation disagreement that may arise could narrow what we believe to be the scope of our rights to the relevant intellectual property or technology, or increase what we believe to be our financial or other obligations under the relevant agreement, either of which could have a material adverse effect on our business, financial condition, results of operations and growth prospects. Moreover, if disputes over intellectual property that we have optioned or licensed prevent or impair our ability to maintain such arrangements on commercially acceptable terms, we may be unable to successfully develop and commercialize the affected product candidates, which could have a material adverse effect on our business, financial conditions, results of operations and growth prospects.

## **Risks Related to Our Operations**

***In order to successfully implement our plans and strategies, we will need to grow the size of our organization, and we may experience difficulties in managing this growth.***

As of December 31, 2023, we had 72 employees, including 59 employees engaged in research and development. In order to successfully implement our development and commercialization plans and strategies, and as we continue to operate as a public company, we expect we will need additional managerial, scientific, technical, medical, operational, sales, marketing, financial and other personnel. Future growth may impose significant added responsibilities on members of management, including:

- identifying, recruiting, integrating, retaining and motivating additional employees;

- managing our internal development efforts effectively, including the clinical and FDA review process for evorpcept and any other future product candidates, while complying with applicable contractual obligations to contractors and other third parties; and
- maintaining and updating our operational, financial and management controls, reporting systems and procedures.

Our future financial performance and our ability to successfully develop and, if approved, commercialize evorpcept and any other future product candidates will depend, in part, on our ability to effectively manage any future growth, which may require our management team to divert its attention away from day-to-day activities of the business and devote a substantial amount of time to the added responsibilities associated with managing these growth activities.

We currently rely, and for the foreseeable future will continue to rely, in substantial part on specific independent organizations, advisors and consultants to provide certain services, including substantially all aspects of clinical management and manufacturing. We cannot assure you that the services of independent organizations, advisors and consultants will continue to be available to us on a timely basis when needed, or that we can find qualified replacements. In addition, if we are unable to effectively manage our outsourced activities or if the quality or accuracy of the services provided by third-party service providers is compromised for any reason, our clinical trials may be extended, delayed or terminated, and we may not be able to obtain marketing approval of evorpcept and any other future product candidates or otherwise advance our business. We cannot assure you that we will be able to manage our existing third-party service providers or find other qualified outside contractors and consultants on economically reasonable terms, or at all.

If we are not able to effectively expand our organization by hiring new employees and/or engaging additional third-party service providers, we may not be able to successfully implement the tasks necessary to further develop and commercialize evorpcept and other future product candidates and, accordingly, may not achieve our research, development and commercialization goals.

***Our product candidates are based on a novel technology, which makes it difficult to predict the time and cost of product candidate development.***

We have concentrated our product research and development efforts on our novel immuno-oncology approach, and our future success depends on the successful development of our lead product candidate, evorpcept, and any future product candidates that we develop. There can be no assurance that any development problems we experience in the future related to our novel immuno-oncology approach will not cause significant delays or unanticipated costs or that such development problems can be solved. We may also experience delays in developing a sustainable, reproducible and scalable manufacturing process or transferring that process to commercial partners, which may prevent us from completing our clinical trials or commercializing our product candidates on a timely or profitable basis, if at all.

***We are highly dependent on our key personnel, and if we are not successful in attracting, motivating and retaining highly qualified personnel, we may not be able to successfully implement our business strategy.***

Our ability to compete in the highly competitive biotechnology and life science industries depends upon our ability to attract, motivate and retain highly qualified managerial, scientific and medical personnel. We are highly dependent on our management and our scientific, technical, business and medical personnel. The loss of the services provided by any of our executive officers, other key employees and other scientific and medical advisors, our inability to find suitable replacements, and the impacts of any executive officer changes, could result in delays in the development of our product candidates and harm our business. Additionally, layoffs or furloughs, pausing recruiting efforts, or employee attrition could also create delays in the development of our product candidates and harm our business.

We conduct our operations at our facility in the San Francisco Bay Area of California, a region that is headquarters to many other biopharmaceutical companies and many academic and research institutions. To succeed, we must recruit, retain, manage and motivate qualified clinical, scientific, manufacturing and sales and marketing personnel, and we face significant competition for experienced personnel. We expect that we may need to recruit talent from outside of our region and doing so may be costly and difficult. In addition, we will need to expand and effectively manage our managerial, operational, financial, development and other resources in order to successfully pursue our research, development and commercialization efforts for our existing and future product candidates. Furthermore, replacing executive officers and key employees may be difficult and may take an extended period of time because of the limited talent pool in our industry due to the breadth of skills and experience required to successfully develop, gain regulatory approval of and commercialize products. Competition for skilled personnel is intense and the turnover rate can be high, which may limit our ability to hire and retain highly qualified personnel on acceptable terms or at all. Additionally, the U.S. has recently experienced historically high levels of inflation and an acute workforce shortage generally, which has created a hyper-competitive wage environment that may increase our operating costs.

Many of the other biotechnology companies that we compete against for qualified personnel have considerably more financial and other resources, different risk profiles and a more extended history in the industry than we do. They also may provide more diverse opportunities and better prospects for career advancement. Some of these characteristics may be more appealing to high-quality candidates than what we can offer. We also experience competition for the hiring of scientific and clinical personnel from universities and research institutions. In addition to competition for personnel, the San Francisco Bay Area in particular is characterized by a high cost of living. We could in the future have difficulty attracting experienced personnel to our company and may be required to expend significant financial resources in our employee recruitment and retention efforts. To induce valuable employees to remain at our company, in addition to salary and cash incentives, we have provided equity grants that vest over time. The value to employees of these equity grants that vest over time may be significantly affected by movements in our stock price that are beyond our control and therefore any declining value in our equity grants could negatively impact our ability to successfully retain existing employees or effectively recruit new employees. Although we have employment agreements with our key employees, these employment agreements provide for at-will employment, which means that any of our employees could leave our employment at any time, with or without notice. If we are unable to attract and incentivize quality personnel on acceptable terms, or at all, it may cause our business and operating results to suffer.

***Our international operations may expose us to business, regulatory, political, operational, financial, pricing and reimbursement risks associated with doing business outside of the United States.***

Our predecessor company, which after our internal reorganization is now our wholly-owned subsidiary, was an Irish private company limited by shares. Our business is subject to risks associated with conducting business internationally. Some of our subsidiaries and operations, in addition to suppliers, industry partners and clinical study centers, are located outside of the United States. Furthermore, our business strategy incorporates potential international expansion as we seek to obtain regulatory approval for, and commercialize, our product candidates in patient populations outside the United States. If approved, we expect to hire sales representatives and conduct physician and patient association outreach activities outside of the United States. Doing business internationally involves a number of risks and complexities, including but not limited to:

- multiple, conflicting and changing laws and regulations such as privacy regulations, tax laws, export and import restrictions, employment laws, regulatory requirements and other governmental approvals, permits and licenses, including within the European Union and in the United Kingdom as a result of Brexit;
- our failure to obtain and maintain regulatory approvals for the use of our products in various countries;
- rejection or qualification of foreign clinical trial data by the competent authorities of other countries;
- complexities and difficulties in obtaining, maintaining, protecting and enforcing our intellectual property, including as a result of potentially relevant third-party patent rights;
- difficulties in staffing and managing foreign operations;
- complexities associated with managing multiple payor reimbursement regimes, government payors or patient self-pay systems;
- limits in our ability to penetrate international markets;
- financial risks, such as longer payment cycles, difficulty collecting accounts receivable, the impact of local and regional financial crises on demand and payment for our drugs;
- exposure to foreign currency exchange rate fluctuations;
- political and economic instability, such as the geopolitical unrest and regional economic disruptions caused by Russia's war with Ukraine, and war and instability in Israel and the surrounding region, and including wars, terrorism and political unrest, boycotts, curtailment of trade and other business restrictions;
- natural disasters, such as a fire, an earthquake or a flood, or outbreaks or public health crises, such as the COVID-19 pandemic;
- a cybersecurity breach or incident or a related breach of our information systems or data;
- certain expenses including, among others, expenses for travel, translation and insurance; and
- regulatory and compliance risks that relate to anti-corruption compliance and record-keeping that may fall within the purview of the FCPA, its accounting provisions or its anti-bribery provisions, or provisions of anti-corruption or anti-bribery laws in other countries.

Any of these factors could harm our future international expansion and operations and, consequently, our results of operations.

***If any of the third parties that we rely on for various operational and administrative aspects of our business fail to provide timely, accurate and ongoing service or if the technology systems and infrastructure suffer outages that we are unable to mitigate, our business may be adversely affected.***

We currently rely upon third-party consultants and contractors to provide specific operational and administrative services, including research and clinical consultation and management. The failure of any of these third parties to provide accurate and timely service may adversely impact our business operations. In addition, if such third-party service providers were to cease operations, temporarily or permanently, face financial distress or other business disruption, increase their fees or if our relationships with these providers deteriorate, we could suffer increased costs until an equivalent provider could be found, if at all, or we could develop internal capabilities, if ever. In addition, if we are unsuccessful in choosing or finding high-quality partners, if we fail to negotiate cost-effective relationships with them, or if we ineffectively manage these relationships, it could have an adverse impact on our business and financial performance.

Further, our operations depend on the continuing and efficient operation of our information technology, communications systems and infrastructure, and on cloud-based platforms. Any of these systems and infrastructure are vulnerable to damage or interruption from earthquakes, vandalism, sabotage, terrorist attacks, floods, fires, power outages, telecommunications failures, computer viruses or other deliberate attempts to harm the systems. The occurrence of a natural or intentional disaster, any decision to close a facility we are using without adequate notice, or particularly an unanticipated problem at a cloud-based virtual server facility, could result in harmful interruptions in our service, resulting in adverse effects to our business.

***We may become exposed to costly and damaging product liability claims, either when testing our product candidates in the clinic or at the commercial stage, and our product liability insurance may not cover all damages from such claims.***

We are exposed to potential product liability and professional indemnity risks that are inherent in the research, development, manufacturing, marketing and use of pharmaceutical products. We currently have no products that have been approved for commercial sale. However, the current and future use of product candidates by us in clinical trials and the sale of any approved products in the future, may expose us to liability claims. These claims might be made by patients that use the product, healthcare providers, pharmaceutical companies or others selling such products. In addition, we have agreed to indemnify various counterparties related to our product candidates against certain liability claims and any agreements or collaborations in the future may include such indemnification obligations. Any claims against us, or with respect to which we are obligated to provide indemnification, regardless of their merit, could be difficult and costly to defend or settle and could compromise the market acceptance of our product candidates or any prospects for commercialization of our product candidates, if approved.

Although the clinical trial process is designed to identify and assess potential side effects, it is always possible that a drug, even after regulatory approval, may exhibit unforeseen side effects. If any of our product candidates were to cause adverse side effects during clinical trials or after approval of the product candidate, we may be exposed to substantial liabilities. Physicians and patients may not comply with any warnings that identify known potential adverse effects or that certain patients should not use our drugs for various reasons.

Although we maintain product liability insurance coverage, such insurance may not be adequate to cover all liabilities that we may incur. We may need to increase our insurance coverage each time we commence a clinical trial and if we successfully commercialize any product candidate. As the expense of insurance coverage is increasing, we may not be able to maintain insurance coverage at a reasonable cost or in an amount adequate to satisfy any liability that may arise. If a successful product liability claim or series of claims is brought against us for uninsured liabilities or in excess of insured liabilities, our assets may not be sufficient to cover such claims and our business operations could be impaired.

***We may expend our limited resources to pursue a particular product candidate or indication and fail to capitalize on product candidates or indications that may be more profitable or for which there is a greater likelihood of success.***

Because we have limited financial and managerial resources, we focus on research programs that we identify for specific indications. As a result, we may forego or delay pursuit of opportunities with other product candidates or for other indications that later prove to have greater commercial potential. Our resource allocation decisions may cause us to fail to capitalize on viable commercial therapies or profitable market opportunities.

Our spending on current and future research and development programs, such as evorpacept, for specific indications may not yield any commercially viable products. If we do not accurately evaluate the commercial potential or target market for a particular product candidate, we may relinquish valuable rights to that product candidate through collaboration, licensing or other royalty arrangements in cases in which it would have been more advantageous for us to retain sole development and commercialization rights to such product candidate. For example, we entered into clinical trial collaborations with our collaborators, including I-SPY, Sanofi, Jazz and the ISTs, to supply evorpacept for clinical trials to advance new combination therapies. We have limited control over the amount and timing of resources that our collaborators dedicate to the development of our products. Any termination or disruption of collaborations could result in delays in the development of products, increases in our costs to develop the products or the termination of development of a product.



***We may seek to enter into collaborations, including strategic collaborations, licenses and other similar arrangements related to our product candidates and may not be successful in doing so, and even if we are, we may not be able to maintain or realize the benefits of such relationships. If we are not able to establish future collaborations, we may have to alter some of our future development and commercialization plans and our business could be adversely affected.***

We may seek to enter into collaborations, licenses and other similar arrangements for the development or commercialization of our product candidates, due to strategic advantages to partnering with third parties and capital costs required to develop or commercialize the product candidate in such markets. For instance, we entered into a collaboration agreement with Tallac Therapeutics pursuant to which we expect to jointly develop, manufacture, and commercialize a novel cancer immunotherapy. We may not be successful in our efforts to establish such collaborations for our product candidates because our product candidates may be deemed to be at too early of a stage of development for collaborative effort or third parties may not view our product candidates as having the requisite potential to demonstrate safety and efficacy or significant commercial opportunity. Further, any future collaboration agreements may restrict us from entering into additional agreements with potential collaborators. We cannot be certain that, following a strategic transaction or license, we will achieve an economic benefit that justifies such transaction.

Even if we are successful in our efforts to establish such collaborations, the terms that we agree upon may not be favorable to us, and we may not be able to maintain such collaborations if, for example, development of a product candidate is delayed, the safety of a product candidate is questioned or sales of an approved product are unsatisfactory. We also may not be able to realize the benefit of such collaborations if we are unable to successfully integrate them with our existing operations and company culture. In any such collaborations, we may likely have limited control over the amount and timing of resources that our collaborators dedicate to the development or commercialization of any product candidates we may seek to develop with them. We cannot predict the success of any collaboration that we may enter into.

We face significant competition in seeking appropriate collaborators and a number of more established companies may also be pursuing strategies to license or acquire third-party intellectual property rights that we may consider attractive. These established companies may have a competitive advantage over us due to their size, financial resources and greater clinical development and commercialization capabilities. In addition, companies that perceive us to be a competitor may be unwilling to assign or license rights to us. Whether we reach a definitive agreement for a collaboration will depend, among other things, upon our assessment of the collaborator's resources and expertise, the terms and conditions of the proposed collaboration and the proposed collaborator's evaluation of a number of factors. Those factors may include the design or results of clinical trials, the likelihood of approval by the FDA or comparable foreign regulatory authorities, the potential market for the subject product candidate, the costs and complexities of manufacturing and delivering such product candidate to patients, competing products, the existence of uncertainty with respect to our ownership of technology, which can exist if there is a challenge to such ownership without regard to the merits of the challenge and industry and market conditions generally. The collaborator may also consider alternative product candidates or technologies for similar indications that may be available to collaborate on and whether such a collaboration could be more attractive than the one with us for our product candidate. Collaborations are complex and time-consuming to negotiate and document. In addition, there have been a significant number of recent business combinations among large pharmaceutical companies that have resulted in a reduced number of potential future collaborators.

We may not be able to negotiate further collaborations on a timely basis, on acceptable terms, or at all. We also may find that our programs require the use of proprietary rights held by third parties, and the growth of our business may depend in part on our ability to acquire, in-license or use these proprietary rights. Even if we are able to obtain a license to intellectual property of interest, we may not be able to secure exclusive rights, in which case others could use the same rights and compete with us. Our future collaboration partners may not prioritize our product candidates or otherwise not effectively pursue the development of our product candidates which may delay, reduce or terminate the development of such product candidate, reduce or delay its development program, or delay its potential commercialization. Further, if we are unable to successfully obtain rights to required third-party intellectual property rights or maintain the existing intellectual property rights we have, we may have to delay, reduce or terminate the development of such product candidate, reduce or delay its development program or one or more of our other development programs, delay its potential commercialization or reduce the scope of any sales or marketing activities or increase our expenditures and undertake development or commercialization activities at our own expense. Any of the foregoing factors would likely harm our ability to execute our business plans. If we elect to increase our expenditures to fund development or commercialization activities on our own, we may need to obtain additional capital, which may not be available to us on acceptable terms or at all. If we do not have sufficient funds, we may not be able to further develop our product candidates or bring them to market and generate product revenue.

***We may acquire businesses or assets and we may not realize the benefits of such acquisitions.***

We may acquire businesses or assets or create joint ventures with third parties that we believe may complement our existing product candidates. For example, in October 2021, we acquired ScalmiBio, Inc., or ScalmiBio. We are developing new anti-cancer drug candidates based on ScalmiBio's platform, and the acquisition of ScalmiBio enhanced our internal research and development capabilities. In order to realize the continuing benefits of the ScalmiBio acquisition, we will need to continue to make a substantial investment of time and resources to support research and development efforts. Additionally, we may not be able to realize the benefit of acquiring businesses or assets or joint ventures if we are not able to successfully integrate them with our existing operations and company culture. We may encounter difficulties in developing, manufacturing and marketing any new product candidates resulting from an acquisition, which may delay or prevent us from realizing their expected benefits.

Also, the anticipated benefit of any joint venture or acquisition may not materialize, and any potential or future joint venture or acquisition may be prohibited. Additionally, future acquisitions or dispositions could result in potentially dilutive issuances of our equity securities, the incurrence of debt, contingent liabilities or amortization expenses or write-offs of goodwill, any of which could harm our financial condition. We cannot predict the number, timing or size of future joint ventures or acquisitions, or the effect that any such transactions might have on our operating results.

***Our ability to utilize our net operating loss carryforwards and certain other tax attributes may be limited.***

Under the U.S. Internal Revenue Code of 1986, as amended, if a corporation undergoes an "ownership change" (generally defined as a greater than 50 percentage points change (by value) in the ownership of its equity by its shareholders holding 5% or more over a rolling three-year period), the corporation's ability to use its pre-change net operating loss carryforwards and other pre-change tax attributes to offset its post-change income and taxes may be limited. We may have experienced such ownership changes in the past, and we may experience ownership changes in the future, in either case as a result of shifts in our stock ownership, some of which are outside our control. As of December 31, 2023, we had net operating loss carryforwards of approximately \$93.5 million and \$69.0 million for U.S. federal and state income tax purposes, respectively. Our ability to utilize those net operating loss carryforwards could be limited by an "ownership change" as described above, which could result in increased tax liability to our company. The federal net operating losses carry forward indefinitely and may only offset 80% of taxable income in periods of future utilization. The state net operating loss will begin to expire beginning in 2038.

As of December 31, 2023, we had Irish net operating loss carryforwards of approximately \$4.9 million. These Irish net operating loss carryforwards do not expire but may not be fully utilized unless we generate sufficient income in Ireland. We may also be limited in the amount of loss carryforwards that we can use in the future to offset taxable income for Irish corporation tax purposes if we experience ownership changes in the future as a result of subsequent movements in our share ownership, some of which are outside of our control, or if we experience a major change in the nature or conduct of our trade or our trade becomes small or negligible. Furthermore, in the event we incur net income in certain jurisdictions but incur losses (or have loss carryforwards) in other jurisdictions, we cannot offset the income from one jurisdiction with the loss from another, which could increase our effective tax rate.

***Changes in tax laws or in their implementation or interpretation may adversely affect our business and financial condition.***

We are or may become subject to income and non-income taxes in the United States under federal, state and local jurisdictions and in certain foreign jurisdictions in which we operate. Tax laws, regulations and administrative practices in these jurisdictions may be subject to significant change, with or without advance notice. For example, on January 1, 2022, a provision of the Tax Cuts and Jobs Act of 2017 went into effect that eliminated the option to deduct domestic research and development costs in the year incurred and instead requires taxpayers to amortize such costs over five or fifteen years. The United States has also enacted the Inflation Reduction Act of 2022, which introduced, among other provisions, a 15% minimum tax on book income and a 1% excise tax on certain stock buybacks by U.S. publicly-traded corporations on or after January 1, 2023. The Organization for Economic Cooperation and Development has proposed implementing a global minimum tax of 15%, which has been adopted by the Council of European Union for implementation into the domestic laws of European Union member countries. Changes in tax laws, regulations, or rulings, changes in interpretations of existing laws and regulations, or changes in accounting principles could negatively and materially affect our financial position, cash flows, and results of operations.

***Risks Related to Ownership of Our Common Stock***

***We do not know whether an active, liquid and orderly trading market will be sustained for our common stock.***

Prior to our initial public offering, no market for shares of our common stock existed. Although our common stock is listed on the Nasdaq Global Select Market, the market for our shares has demonstrated varying levels of trading activity. It is possible that in one or more future periods our results of operations and progression of our product pipeline may not meet the expectations of public market analysts and investors, and, as a result of these and other factors, the price of our common stock may fall.

***If we sell shares of our common stock in future financings, stockholders may experience immediate dilution and, as a result, our stock price may decline.***

We may from time to time issue additional shares of common stock at a discount from the current trading price of our common stock. As a result, our stockholders would experience immediate dilution upon the purchase of any shares of our common stock sold at such discount. In addition, as opportunities present themselves, we may enter into financing or similar arrangements in the future, including the issuance of debt securities, preferred stock or common stock. For example, our amended Shelf Registration Statement, declared effective by the SEC on May 31, 2022, provides for aggregate offerings of up to \$450.0 million of the Company's securities inclusive of up to \$150.0 million of shares of our common stock through at-the-market offerings. On October 10, 2023, we completed the October 2023 Offering for the issuance and sale of an aggregate of 8,663,793 shares of common stock and pre-funded warrants to purchase 1,250,000 shares of common stock at a public offering price of \$6.38 per share and \$6.379 per pre-funded warrant. Our stockholders may be further diluted by the exercise of the pre-funded warrants issued in the October 2023 Offering. If we issue common stock or securities convertible into common stock, our stockholders will experience additional dilution and our stock price may decline.

***The price of our stock may be volatile, and you could lose all or part of your investment.***

The trading price of our common stock has been and may be highly volatile and subject to wide fluctuations in response to various factors, some of which are beyond our control. In addition to those discussed in this "Risk Factors" section and elsewhere in this Annual Report on Form 10-K, the following factors may cause the market price of our common stock to fluctuate:

- results and timing of our preclinical studies and clinical trials and studies and trials of our competitors;
- failure or discontinuation of any of our development programs;
- issues in manufacturing our product candidates or any future approved products;
- regulatory developments or enforcement in the United States and foreign countries with respect to our product candidates or our competitors' products;
- competition from existing products or new products that may emerge;
- actual or anticipated changes in our growth and development relative to our competitors;
- developments or disputes concerning patents or other proprietary rights;
- introduction of new product candidates or technological innovations by us or our competitors;
- announcements by us, our future strategic partners or our competitors of significant acquisitions, strategic partnerships, joint ventures or capital commitments;
- actual or anticipated changes in estimates or recommendations by securities analysts, if any cover our common stock;
- fluctuations in the valuation of companies perceived by investors to be comparable to us;
- public concern over our product candidates or any future approved products;
- litigation;
- future sales of our common stock by us, our insiders or our other stockholders including pursuant to the existing primary and secondary shelf registration statements that we have filed with the SEC;
- expiration of market stand-off or lock-up agreements;
- share price and volume fluctuations attributable to inconsistent trading volume levels of our shares;
- additions or departures of key personnel;
- changes in the structure of health care payment systems in the United States or overseas;
- failure of any of our product candidates, if approved, to achieve commercial success;
- macroeconomic conditions, such as inflation, economic downturns, disasters, and medical or public health crises, such as the COVID-19 pandemic, including the impact of recent bank failures, the ongoing geopolitical unrest related to Russia's war with Ukraine, and war and instability in Israel and the surrounding region;
- period-to-period fluctuations in our financial condition and results of operations, including the timing of payment or receipt of any future milestone or other payments under commercialization or licensing agreements;
- announcements or expectations of additional financing efforts;
- overall fluctuations in U.S. equity markets, general market conditions and market conditions for biotechnology stocks; and

- other factors that may be unanticipated or out of our control.

In addition, the stock market has recently experienced significant volatility, particularly with respect to biotechnology and other life sciences company stocks. The volatility of biotechnology and other life sciences company stock often does not relate to the operating performance of the companies presented by the stock. In addition, in the past, when the market price of a stock has been volatile, holders of that stock have instituted securities class action litigation against the company that issued the stock. If any of our stockholders brought a lawsuit against us, we could incur substantial costs defending the lawsuit and divert the time and attention of our management, which could seriously harm our business.

The realization of any of the above risks or any of a broad range of other risks, including those described in this “Risk Factors” section, could have a dramatic and adverse impact on the market price of our common stock.

***Our operating results may fluctuate significantly, which makes our future operating results difficult to predict and could cause our operating results to fall below expectations or our guidance.***

Our quarterly and annual operating results may fluctuate significantly in the future, which makes it difficult for us to predict our future operating results. From time to time, we may enter into license or collaboration agreements or strategic partnerships with other companies that include development funding and significant upfront and milestone payments and/or royalties, which may become an important source of our revenue. These upfront and milestone payments may vary significantly from period to period and any such variance could cause a significant fluctuation in our operating results from one period to the next.

In addition, we measure compensation cost for stock-based awards made to employees at the grant date of the award, based on the fair value of the award as determined by our board of directors, and recognize the cost as an expense over the employee’s requisite service period. As the variables that we use as a basis for valuing these awards change over time, including our underlying stock price and stock price volatility, the magnitude of the expense that we must recognize may vary significantly.

Furthermore, our operating results may fluctuate due to a variety of other factors, many of which are outside of our control and may be difficult to predict, including the following:

- the timing and cost of, and level of investment in, research and development activities relating to our current product candidates and any future product candidates and research-stage programs, which will change from time to time. For example, inflationary pressures have increased and we expect will continue to increase costs for our clinical trials;
- our ability to enroll subjects in clinical trials and the timing of enrollment;
- the cost of manufacturing our current product candidates and any future product candidates, which may vary depending on FDA, EMA or other comparable foreign regulatory authority guidelines and requirements, the quantity of production and the terms of our agreements with manufacturers;
- expenditures that we will or may incur to acquire or develop additional product candidates and technologies or other assets;
- the timing and outcomes of clinical trials for evorpaccept, and any of our other product candidates, or competing product candidates;
- the need to conduct unanticipated clinical trials or trials that are larger or more complex than anticipated;
- competition from existing and potential future products that compete with evorpaccept and any of our other product candidates, and changes in the competitive landscape of our industry, including consolidation among our competitors or partners;
- any delays in regulatory review or approval of evorpaccept or any of our other product candidates;
- the level of demand for evorpaccept and any of our other product candidates, if approved, which may fluctuate significantly and be difficult to predict;
- the risk/benefit profile, cost and reimbursement policies with respect to our product candidates, if approved, and existing and potential future products that compete with evorpaccept and any of our other product candidates;
- our ability to commercialize evorpaccept and any of our other product candidates, if approved, inside and outside of the United States, either independently or working with third parties;
- our ability to establish and maintain collaborations, licensing or other arrangements;
- our ability to adequately support future growth;
- any increase in interest expense due to an increase in the floating rate under the Loan Agreement as described elsewhere in this Annual Report on Form 10-K;



- potential unforeseen business disruptions that increase our costs or expenses;
- future accounting pronouncements or changes in our accounting policies;
- a weak or declining economy resulting from adverse macroeconomic conditions such as inflation, rising interest rates, uncertainty in the financial services industry, and any U.S. federal government debt default due to a failure to increase the debt ceiling; and
- the impact of the COVID-19 pandemic, geopolitical unrest related to Russia's conflict with Ukraine, war and instability in Israel and the surrounding region, and bank failures or instability in the financial services sector on the global economy.

The cumulative effect of these factors could result in large fluctuations and unpredictability in our quarterly and annual operating results. As a result, comparing our operating results on a period-to-period basis may not be meaningful. Investors should not rely on our past results as an indication of our future performance. This variability and unpredictability could also result in our failing to meet the expectations of industry or financial analysts or investors for any period. If our revenue or operating results fall below the expectations of analysts or investors or below any forecasts we may provide to the market, or if the forecasts we provide to the market are below the expectations of analysts or investors, the price of our common stock could decline substantially. Such a stock price decline could occur even when we have met any previously publicly stated guidance we may provide.

In particular, there is currently significant uncertainty about the future relationship between the United States and various other countries, most significantly China, with respect to trade policies, treaties, tariffs, taxes, and other limitations on cross-border operations. The U.S. government has made and continues to make significant additional changes in U.S. trade policy and may continue to take future actions that could negatively impact U.S. trade. For example, legislation has been introduced in Congress to limit certain U.S. biotechnology companies from using equipment or services produced or provided by select Chinese biotechnology companies, and others in Congress have advocated for the use of existing executive branch authorities to limit those Chinese service providers' ability to engage in business in the U.S. We cannot predict what actions may ultimately be taken with respect to trade relations between the United States and China or other countries, what products and services may be subject to such actions or what actions may be taken by the other countries in retaliation. If we are unable to obtain or use services from existing service providers or become unable to export or sell our products to any of our customers or service providers, our business, liquidity, financial condition, and/or results of operations would be materially and adversely affected.

***Sales of a substantial number of shares of our common stock in the public market could cause our stock price to fall.***

Sales of a substantial number of shares of our common stock in the public market could occur at any time. If our stockholders sell, or the market perceives that our stockholders intend to sell, a substantial amount of our common stock in the public market, the market price of our common stock could decline significantly.

Shares issued upon the exercise of stock options outstanding under our equity incentive plans or pursuant to future awards granted under those plans will become available for sale in the public market to the extent permitted by the provisions of applicable vesting schedules and Rule 144 and Rule 701 under the Securities Act of 1933, as amended, or the Securities Act.

On October 10, 2023, we completed the October 2023 Offering for the sale of an aggregate of 8,663,793 shares of common stock and pre-funded warrants to purchase 1,250,000 shares of common stock at a public offering price of \$6.38 per share and \$6.379 per pre-funded warrant. Our stockholders may be further diluted by the exercise of the pre-funded warrants issued in the October 2023 Offering. Furthermore, we currently have an effective resale shelf registration statement which enables the selling stockholders thereunder, three of our largest stockholders, to sell shares in the public market which could cause our stock price to decline. In addition, any future sales of shares of common stock or other securities under our Shelf Registration Statement, including pursuant to our at-the-market facility, could put downward pressure on our stock price. Moreover, certain holders of our common stock have rights, subject to conditions, to require us to file registration statements covering their shares or to include their shares in registration statements that we may file for ourselves or other stockholders. Registration of these shares under the Securities Act would result in the shares becoming freely tradeable in the public market, subject to the restrictions of Rule 144 in the case of our affiliates. If any of these additional shares are sold, or if it is perceived that they will be sold, in the public market, the market price of our common stock could decline.

***If securities or industry analysts do not publish research or publish inaccurate or unfavorable research about our business, our share price and trading volume could decline.***

The trading market for our common stock depends on the research and reports that securities or industry analysts publish about us or our business. We do not have any control over these analysts. We cannot assure you that analysts will cover us or provide favorable coverage. If no or few securities or industry analysts commence coverage of us, the trading price for our stock would be negatively impacted. If one or more of the analysts who cover us downgrade our stock or change their opinion of our common stock, our share price would likely decline. If one or more of these analysts cease coverage of our company or fail to publish reports on us regularly, we could lose visibility in the financial markets, which could cause our share price or trading volume to decline.

***We have incurred and will continue to incur significant increased costs and management resources as a result of operating as a public company.***

We have incurred and will continue to incur significant legal, accounting, compliance and other expenses as a public company. Our management and other personnel need to devote a substantial amount of time and incur significant expense in connection with compliance initiatives. For example, as a public company, we must maintain additional internal controls and disclosure controls and procedures and have retained a transfer agent and adopted an insider trading policy. As a public company, we bear all of the internal and external costs of preparing and distributing periodic public reports in compliance with our obligations under the securities laws.

We maintain an enterprise resource planning, or ERP, system, which is designed to combine and streamline the management of our financial, accounting, human resources, sales and marketing and other functions, enabling us to manage operations and track performance more effectively. The ERP system has and will continue to require the investment of significant financial and human resources in order to ensure effective use of the system. Additionally, in the future, we may be limited in our ability to convert any business that we acquire to the ERP. Any disruptions or difficulties in using an ERP system could adversely affect our internal controls and harm our business, including our ability to forecast or make sales and collect our receivables. Moreover, such disruption or difficulties could result in unanticipated costs and diversion of management attention.

In addition, regulations and standards relating to corporate governance and public disclosure, including the Sarbanes-Oxley Act, or SOX, and the related rules and regulations implemented by the SEC and the Nasdaq Stock Market LLC, or Nasdaq, have and will continue to increase legal and financial compliance costs and make some compliance activities more time-consuming. We have invested and will continue to invest additional resources to comply with evolving laws, regulations and standards, and this investment will result in increased general and administrative expenses and may divert management's time and attention from our other business activities. If our efforts to comply with new laws, regulations and standards differ from the activities intended by regulatory or governing bodies due to ambiguities related to practice, regulatory authorities may initiate legal proceedings against us, and our business may be harmed. As a public company, we maintain directors' and officers' insurance coverage, which has significantly increased in recent years. In the future, it may be more expensive or more difficult for us to obtain director and officer liability insurance, and we may be required to accept reduced coverage or incur substantially higher costs to obtain coverage. These factors could also make it more difficult for us to attract and retain qualified members of our board of directors, particularly to serve on our audit committee and compensation committee, and qualified executive officers.

***While we were a large-accelerated filer for fiscal year 2022, we are a "non-accelerated filer" for fiscal year 2023 and we anticipate we will continue to be one throughout 2024. This status could make our common stock less attractive to investors.***

Each year, we re-evaluate our SEC filing status. Accordingly, due to our public float as of June 30, 2022, we became a non-accelerated filer for fiscal year 2023, and due to our public float as of June 30, 2023, we anticipate we will be a non-accelerated filer throughout fiscal year 2024. This will be re-evaluated each June 30. Pursuant to Section 404(a) of SOX, we are required to furnish a report by our management on our internal control over financial reporting. However, while we remain a non-accelerated filer, we will not be required to include an attestation report issued by our independent registered public accounting firm on the effectiveness of our internal control over financial reporting. If, after our June 30 re-evaluation, we are no longer a non-accelerated filer, we would be required to include an attestation report on internal control over financial reporting issued by our independent registered public accounting firm and adhere to earlier filing dates based on our determined status beginning with our Form 10-K for the fiscal year. We cannot predict if investors will find our common stock less attractive if we choose to rely on this exemption. If some investors find our common stock less attractive as a result of our non-accelerated filer status, there may be a less active trading market for our common stock and our stock price may be more volatile and may decline.

***Our affiliated principal stockholders and management own a significant percentage of our stock and will be able to exert significant control over matters subject to stockholder approval.***

As of December 31, 2023, our executive officers, directors, and affiliated holders of 5% or more of our capital stock and their respective affiliates beneficially owned approximately 33.7% of our outstanding voting stock.

Therefore, this group of stockholders, if they act together, will have the ability to control us through this ownership position. These stockholders may be able to determine all matters requiring stockholder approval. For example, these stockholders may be able to control elections of directors, amendments of our organizational documents or approval of any merger, sale of assets or other material corporate transaction. This may prevent or discourage unsolicited acquisition proposals or offers for our common stock that you may feel are in your best interest as one of our stockholders. The interests of this group of stockholders may not always coincide with your interests or the interests of other stockholders and they may act in a manner that advances their best interests and not necessarily those of other stockholders, including seeking a premium value for their common stock, and might affect the prevailing market price for our common stock.

***Market conditions and changing circumstances could impair our ability to access our existing cash, cash equivalents and investments and to timely pay key vendors and others.***

Market conditions and changing circumstances, some of which may be beyond our control, could impair our ability to access our existing cash, cash equivalents and investments and to timely pay key vendors and others. For example, in March 2023, SVB, where we maintain certain immaterial accounts, was placed into receivership with the FDIC, and all funds held at SVB were temporarily inaccessible to SVB's customers. If other banks and financial institutions with whom we have banking relationships enter receivership or become insolvent in the future, we may be unable to access, or we may lose, some or all of our existing cash, cash equivalents and investments, to the extent those funds are not insured or otherwise protected by the FDIC. In addition, in such circumstances we might not be able to timely pay key vendors, employees, and others. We regularly maintain cash balances that are not insured or are in excess of the FDIC's insurance limit. In addition, any U.S. federal government debt default due to a failure to increase the debt ceiling may lead to lack of access to our investments in U.S. treasury securities or losses or lower returns on such investments, in addition to broader macroeconomic risk that would follow any such default. Any delay in our ability to access our cash, cash equivalents and investments, or the loss of some or all of such funds, or inability to pay key vendors and others timely, could have a material adverse effect on our operations and cause us to seek additional capital sooner than planned.

***We do not anticipate paying cash dividends and, accordingly, stockholders must rely on share appreciation for any return on their investment.***

We have never paid any dividends on our capital stock. We currently intend to retain our future earnings, if any, to fund the development and growth of our businesses and do not anticipate that we will declare or pay any cash dividends on our capital stock in the foreseeable future. As a result, capital appreciation, if any, of our common stock will be your sole source of gain on your investment for the foreseeable future. Investors seeking cash dividends should not invest in our common stock.

***Raising additional capital may cause dilution to our stockholders, restrict our operations or require us to relinquish substantial rights.***

To the extent that we raise additional capital through the sale of equity or convertible debt securities, your ownership interest will be diluted, and the terms of these new securities may include liquidation or other preferences that adversely affect your rights as a common stockholder. Sales of equity securities may be made under our Shelf Registration Statement and pursuant to our related at-the-market facility described therein. Additionally, our stockholders may be further diluted by the exercise of the pre-funded warrants issued in the follow-on public offering. Debt financing, if available, may involve fixed payment obligations or agreements that include covenants limiting or restricting our ability to take specific actions such as incurring additional debt, making capital expenditures or declaring dividends. Our Loan Agreement with the Lenders restricts our ability to incur additional indebtedness without the consent of the Lenders. If we raise additional funds through partnerships, collaborations, strategic alliances or licensing arrangements with third parties, we may have to relinquish valuable rights to our technologies, product candidates or future revenue streams, or grant licenses on terms that are not favorable to us. We cannot assure you that we will be able to obtain additional funding if and when necessary. If we are unable to obtain adequate financing on a timely basis, we could be required to delay, scale back or eliminate one or more of our clinical or discovery programs or grant rights to develop and market product candidates that we would otherwise prefer to develop and market ourselves. In addition, we may seek additional capital due to favorable market conditions or strategic considerations even if we believe we have sufficient funds for our current or future operating plans.

***Delaware law and provisions in our amended and restated certificate of incorporation and bylaws might discourage, delay or prevent a change in control of our company or changes in our management and, therefore, depress the trading price of our common stock.***

Provisions in our amended and restated certificate of incorporation and amended and restated bylaws may discourage, delay or prevent a merger, acquisition or other change in control that stockholders may consider favorable, including transactions in which you might otherwise receive a premium for your shares of our common stock. These provisions may also prevent or frustrate attempts by our stockholders to replace or remove our management. Therefore, these provisions could adversely affect the price of our common stock. Among other things, our charter documents:

- establish that our board of directors is divided into three classes, with each class serving staggered three-year terms;
- provide that vacancies on our board of directors may be filled only by a majority of directors then in office, even though less than a quorum;
- provide that our directors may only be removed for cause;
- eliminate cumulative voting in the election of directors;
- authorize our board of directors to issue shares of convertible preferred stock and determine the price and other terms of those shares, including preferences and voting rights, without stockholder approval;
- provide our board of directors with the exclusive right to elect a director to fill a vacancy or newly created directorship;

- permit stockholders to only take actions at a duly called annual or special meeting and not by written consent;
- prohibit stockholders from calling a special meeting of stockholders;
- require that stockholders give advance notice to nominate directors or submit proposals for consideration at stockholder meetings;
- authorize our board of directors to amend the bylaws; and
- require the affirmative vote of at least 66 2/3% or more of the outstanding shares of common stock to amend many of the provisions described above.

In addition, Section 203 of the General Corporation Law of the State of Delaware prohibits a publicly-held Delaware corporation from engaging in a business combination with an interested stockholder, generally a person who together with its affiliates owns, or within the last three years has owned, 15% of our voting stock, for a period of three years after the date of the transaction in which the person became an interested stockholder, unless the business combination is approved in a prescribed manner.

Any provision of our amended and restated certificate of incorporation, amended and restated bylaws or Delaware law that has the effect of delaying or preventing a change in control could limit the opportunity for our stockholders to receive a premium for their shares of our capital stock and could also affect the price that some investors are willing to pay for our common stock.

***Our amended and restated bylaws provide that the Court of Chancery of the State of Delaware and the federal district courts of the United States will be the exclusive forums for substantially all disputes between us and our stockholders, which could limit our stockholders' ability to obtain a favorable judicial forum for disputes with us or our directors, officers or employees.***

Our amended and restated bylaws provide that the Court of Chancery of the State of Delaware (or, if the Court of Chancery does not have jurisdiction, another State court in Delaware or the federal district court for the District of Delaware) is the exclusive forum for the following (except for any claim as to which such court determines that there is an indispensable party not subject to the jurisdiction of such court (and the indispensable party does not consent to the personal jurisdiction of such court within ten days following such determination), which is vested in the exclusive jurisdiction of a court or forum other than such court or for which such court does not have subject matter jurisdiction):

- any derivative action or proceeding brought on behalf of us;
- any action asserting a claim of breach of a fiduciary duty;
- any action asserting a claim against us arising under the Delaware General Corporation Law, or DGCL, our amended and restated certificate of incorporation or our amended and restated bylaws, as either may be amended from time to time; and
- any action asserting a claim against us that is governed by the internal affairs doctrine.

This provision would not apply to suits brought to enforce a duty or liability created by the Securities Exchange Act of 1934, as amended, or Exchange Act, or any other claim for which the U.S. federal courts have exclusive jurisdiction.

Our amended and restated bylaws further provide that the federal district courts of the United States will be the exclusive forum for resolving any complaint asserting a cause of action arising under the Securities Act.

These exclusive-forum provisions may limit a stockholder's ability to bring a claim in a judicial forum that it finds favorable for disputes with us or our directors, officers or other employees, which may discourage lawsuits against us and our directors, officers and other employees. Any person or entity purchasing or otherwise acquiring any interest in any of our securities shall be deemed to have notice of and consented to these provisions. There is uncertainty as to whether a court would enforce such provisions, and the enforceability of similar choice of forum provisions in other companies' charter documents has been challenged in legal proceedings. It is possible that a court could find these types of provisions to be inapplicable or unenforceable, and if a court were to find either exclusive-forum provision in our amended and restated bylaws to be inapplicable or unenforceable in an action, we may incur additional costs associated with resolving the dispute in other jurisdictions, which could seriously harm our business.

***In the past, we have identified material weaknesses in our internal control over financial reporting, and if we are unable to maintain effective internal control over financial reporting in the future, investors may lose confidence in the accuracy and completeness of our financial reports, and the market price of our common stock may be materially adversely affected.***

In the past, we and our independent registered public accounting firm identified two material weaknesses in our internal control over financial reporting, both of which have since been remediated. We did not identify any material weakness for the fiscal years ended December 31, 2023 and 2022.



If in the future, we have a material weakness in our internal controls over financial reporting, we may not be able to prevent or detect errors on a timely basis and our consolidated financial statements may be materially misstated. We or our independent registered public accounting firm, if required, may not be able to conclude on an ongoing basis that we have effective internal control over financial reporting, which could harm our operating results, cause investors to lose confidence in our reported financial information and cause the trading price of our stock to fall. In addition, as a public company we are required to file accurate and timely quarterly and annual reports with the SEC under the Exchange Act. Any failure to report our financial results on an accurate and timely basis could result in sanctions, lawsuits, delisting of our shares from The Nasdaq Global Select Market or other adverse consequences that would materially harm our business. In addition, we could become subject to investigations by the stock exchange on which our securities are listed, the SEC, and other regulatory authorities, and become subject to litigation from investors and stockholders, which could harm our reputation and our financial condition, or divert financial and management resources from our core business.

***If we fail to maintain an effective system of internal control over financial reporting, we may not be able to accurately report our financial results or prevent fraud, which would harm our business and the trading price of our common stock.***

Effective internal controls over financial reporting are necessary for us to provide reliable financial reports and, together with adequate disclosure controls and procedures, are designed to prevent fraud. Any failure to implement required new or improved controls, or difficulties encountered in their implementation, could cause us to fail to meet our reporting obligations. In addition, any testing by our independent registered public accounting firm in connection with Section 404(b) of SOX, as long as such attestation report is required pursuant to such section by our independent registered public accounting firm, may reveal deficiencies in our internal controls over financial reporting that are deemed to be significant deficiencies or material weaknesses or that may require prospective or retroactive changes to our consolidated financial statements or identify other areas for further attention or improvement. As discussed above, we have identified material weaknesses in the past which have since been remediated. However, our remediation of previous material weaknesses may not prevent any future deficiency in our internal control over financial reporting. Inferior internal controls could also cause investors to lose confidence in our reported financial information, which could have a negative effect on the trading price of our common stock.

Any failure to maintain effective internal control over financial reporting could have a material adverse effect on our business, financial condition and results of operations and the trading price of our common stock.

We are required to disclose material changes made in our internal controls over financial reporting and procedures on a quarterly basis and our management are required to assess the effectiveness of these controls annually. We were no longer an “emerging growth company” as of December 31, 2021 and as such, pursuant to Section 404(b) of SOX, our independent registered public accounting firm attested to the effectiveness of our internal control over financial reporting as of December 31, 2021. However, we became a “non-accelerated filer” for fiscal year 2023. While we remain a non-accelerated filer, we will not be required to include an attestation report issued by our independent registered public accounting firm on the effectiveness of our internal control over financial reporting. An independent assessment of the effectiveness of our internal controls could detect problems that our management’s assessment might not and therefore we may be less likely to detect deficiencies in our internal controls over financial reporting in the future and during any fiscal year for which we remain a non-accelerated filer.

***We are organized in a holding company structure and we are, and will be, dependent upon the results of operations and cash flows of our subsidiaries and distributions we receive from our subsidiaries.***

ALX Oncology Holdings Inc. is a holding company that currently has no material assets other than cash and our ownership of all of the equity issued by ALX Oncology Limited. As such, ALX Oncology Holdings Inc. will have no independent means of generating revenue or cash flow, and our ability to pay our taxes and operating expenses or declare and pay dividends in the future, if any, will be dependent upon the results of operations and cash flows of ALX Oncology Limited and its consolidated subsidiaries, including any distributions we receive from ALX Oncology Limited. There can be no assurance that our direct and indirect subsidiaries will generate sufficient cash flow to distribute funds to us or that applicable law and contractual restrictions, such as negative covenants in any debt instruments, will permit such distributions. In addition, in the event that the board of directors and stockholders of ALX Oncology Holdings Inc. were to approve a sale of all of our equity in ALX Oncology Limited or any of our other indirect subsidiaries, your equity interest would be in a holding company with no material assets other than those assets and other consideration received in such transaction.

## General Risks

### ***Business disruptions could seriously harm our future revenue and financial condition and increase our costs and expenses.***

Our operations, and those of our service providers and suppliers and other contractors and consultants, could be subject to earthquakes, power shortages, telecommunications failures, water shortages, floods, hurricanes, typhoons, fires, extreme weather conditions, medical or public health crises, such as the COVID-19 pandemic, and other natural or man-made disasters such as the ongoing geopolitical unrest related to Russia's war with Ukraine, war and instability in Israel and the surrounding region, or business interruptions, for which we are partly uninsured. The occurrence of any of these business disruptions could seriously harm our operations and financial condition and increase our costs and expenses. We rely on third-party manufacturers to produce and process our product candidates. Our ability to obtain clinical supplies of our product candidates could be disrupted if the operations of these suppliers are affected by a man-made or natural disaster or other business interruption.

The majority of our operations including our corporate headquarters are located in the San Francisco Bay Area in California. Damage or extended periods of interruption to our corporate, development or research facilities due to fire, natural disaster, power loss, communications failure, unauthorized entry or other events could cause us to cease or delay development of some or all of our product candidates. Although we maintain property damage and business interruption insurance coverage on these facilities, our insurance might not cover all losses under such circumstances and our business may be seriously harmed by such delays and interruption.

### ***We may experience disruptions and delays or incur financial damages as a result of system failures or security breaches or incidents.***

Despite our implementation of security measures, any of the internal computer systems and networks belonging to or used by us or our employees and our CROs and other third-party service providers are vulnerable to damage and disruption from computer viruses, ransomware and other malicious code, unauthorized access, natural disasters, terrorism, war and telecommunication and electrical failure, as well as security breaches and incidents from inadvertent or intentional actions, or from cyber-attacks by malicious third parties (including supply chain cyber-attacks, denial-of-service attacks, social engineering and other means to affect service reliability and threaten the confidentiality, integrity and availability of information), which may compromise system infrastructure or lead to the loss, destruction, alteration, prevention of access to, disclosure, or dissemination of, or damage or unauthorized access to, our data (including trade secrets or other confidential information, intellectual property, proprietary business information, and personal information) or data that is processed or maintained on our behalf, or other assets, which could result in financial, legal, business and reputational harm to us. Any system failure, accident or security breach or incident that causes interruptions in our own or in our CROs' and other third-party service providers' operations could result in a material disruption of our drug discovery and development programs or other aspects of our operations. We may be more susceptible to security breaches and other security incidents while a large percentage of our employees continue to work from home for some portion of time because we and our service providers have less capability to monitor and enforce our information security and data protection policies for those employees. Also, ongoing geopolitical unrest and related events such as Russia's war with Ukraine may subject us and our CROs and other third-party service providers to heightened risks of cybersecurity incidents and security and privacy breaches, including attacks that could materially disrupt our drug discovery and development programs or other aspects of our operations.

A system failure or security breach or incident that leads to the loss, corruption or unavailability of clinical trial data from completed or future clinical trials could result in delays in our regulatory approval efforts and significantly increase our costs in order to recover or reproduce the lost, corrupted, or unavailable data. In addition, if any disruption or security breach or incident results in loss, destruction, alteration, or unavailability of, or damage or unauthorized access to, our data or applications or unauthorized access to, disclosure, dissemination or other processing of confidential or proprietary information that we or our third-party service providers process, including personal information related to the subjects in our clinical trials, we may incur liability as a result, our drug discovery programs and competitive position may be adversely affected and further development of our product candidates may be delayed. Any such disruption, failure or security breach or incident could also cause us to incur additional costs to remedy the damages that arise from such disruption, failure or security breach or incident. Additionally, in the event of any such disruption, failure or security breach or incident, or any perception that one has occurred, we could be exposed to claims, demands, and litigation and governmental investigations and other proceedings, the further development and commercialization of our product candidates could be delayed, and we could be subject to significant liabilities, including fines or penalties for any noncompliance with certain state, federal and/or international privacy and security laws. We expect to incur significant costs in an effort to detect and prevent security breaches and incidents, and we may face increased costs and requirements to expend substantial resources in the event of an actual or perceived security breach or incident.

Our insurance policies may not be adequate to compensate us for the potential losses arising from any such disruption, failure or security breach or incident. In addition, such insurance may not be available to us in the future on economically reasonable terms, or at all. Further, our insurance may not cover all claims made against us and could have high deductibles in any event, and defending a suit, regardless of its merit, could be costly and divert management attention.

***Our disclosure controls and procedures may not prevent or detect all errors or acts of fraud.***

We are subject to the periodic reporting requirements of the Exchange Act. We designed our disclosure controls and procedures to reasonably assure that information we must disclose in reports we file or submit under the Exchange Act is accumulated and communicated to management, and recorded, processed, summarized and reported within the time periods specified by SEC rules and regulations. We believe that any disclosure controls and procedures or internal controls and procedures, no matter how well-conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met.

These inherent limitations include the facts that judgments in decision-making can be faulty and that breakdowns can occur because of simple error or mistake. Additionally, controls can be circumvented by the individual acts of some persons, by the collusion of two or more people or by an unauthorized override of the controls. Accordingly, because of the inherent limitations in our control system, misstatements due to error or fraud may occur and not be detected.

***We may be subject to securities litigation, which is expensive and could divert management attention.***

The market price of our common stock has experienced significant fluctuations in the past year and may be volatile in the future. In the past, companies that have experienced volatility in the market price of their stock have been subject to securities class action litigation. We may be the target of this type of litigation in the future. Securities litigation against us could result in substantial costs and divert management's attention from the business, which could seriously harm our business.

## **Item 1B. Unresolved Staff Comments.**

None.

## **Item 1C. Cybersecurity.**

### **Risk Management and Strategy**

We have established policies and processes for assessing, identifying, and managing material risk from cybersecurity threats, and have integrated these processes into our overall risk management systems and processes. We periodically assess material risks from cybersecurity threats, including any potential unauthorized occurrence on or conducted through our information systems that may result in adverse effects on the confidentiality, integrity, or availability of our information systems or any information residing therein.

We conduct periodic risk assessments to identify cybersecurity threats, as well as assessments in the event of a material change in our business practices that may affect information systems that are vulnerable to such cybersecurity threats. These risk assessments include identification of reasonably foreseeable internal and external risks, the likelihood and potential damage that could result from such risks, and the sufficiency of existing policies, procedures, systems, and safeguards in place to manage such risks.

Following these risk assessments, we evaluate whether and how to re-design, implement, and maintain reasonable safeguards to minimize identified risks; reasonably address any identified gaps in existing safeguards; and regularly monitor the effectiveness of our safeguards. We devote significant resources and designate high-level personnel to manage our risk assessment and mitigation processes, including our Vice President of Operations (VPO), who serves as our acting Chief Information Security Officer (CISO), as well as external information technology consultants who help manage our information technology systems and our information security.

As part of our overall risk management system, we monitor and test our safeguards and train our employees on these safeguards, in collaboration with our information technology consultants. Employees at all levels and departments are made aware of our cybersecurity policies through trainings.

We engage our information technology consultants, including dedicated on-site consultants as well as other third parties, in connection with our risk assessment processes. These partners assist us to help design, implement, monitor, and test our cybersecurity policies and procedures. We also require key third-party service providers to certify that they have the ability to implement and maintain appropriate security measures, consistent with all applicable laws, to implement and maintain reasonable security measures in connection with their work with us, and to promptly report any suspected breach of its security measures that may affect our company.

For additional information regarding whether any risks from cybersecurity threats, including as a result of any previous cybersecurity incidents, have materially affected or are reasonably likely to materially affect our company, including our business strategy, results of operations, or financial condition, please refer to “Item 1A. Risk Factors” in this Annual Report on Form 10-K.

### **Governance**

One of the key functions of our board of directors is informed oversight of our risk management process, including risks from cybersecurity threats. Our board of directors, which is responsible for monitoring and assessing strategic risk exposure, has delegated primary oversight responsibility for cybersecurity to our audit committee.

Our VPO and acting CISO, who reports to our President, is responsible for the day-to-day management of our cybersecurity policies and processes, including those described in “Risk Management and Strategy” above, with the assistance of and informed by our consultants. Our VPO and acting CISO, who has many years of senior management and operational oversight at emerging technology companies, is informed about and monitors the prevention, detection, mitigation, and remediation of cybersecurity incidents through the day-to-day management of our information technology consultants, which includes engaging with information provided by the consultants, automated monitoring and detection systems, and other tools and processes defined by our cybersecurity policies.

Our VPO and acting CISO provides periodic briefings to our executive officers regarding our company’s cybersecurity risks and activities, including any recent cybersecurity incidents and related responses, cybersecurity systems testing, activities of third parties, and the like. Our VPO and acting CISO also provides periodic briefings to the board of directors, including the audit committee, on cybersecurity risks and activities.



**Item 2. Properties.**

Our principal executive office is located in South San Francisco, California. We currently lease 10,000 square feet of office space in South San Francisco, California, under a lease that expires in 2026. We believe that this space is sufficient to meet our needs for the foreseeable future and that any additional space we may require will be available on commercially reasonable terms.

**Item 3. Legal Proceedings.**

We are not currently a party to any material legal proceedings. From time to time, we may become involved in legal proceedings arising in the ordinary course of our business. Regardless of outcome, litigation can have an adverse impact on us due to defense and settlement costs, diversion of management resources, negative publicity, reputational harm and other factors.

**Item 4. Mine Safety Disclosures.**

Not applicable.

## PART II

### **Item 5. Market for Registrant’s Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities.**

#### **Market Information for Our Common Stock**

Our common stock has been listed on the Nasdaq Global Select Market under the symbol “ALXO” since July 17, 2020. Prior to that date, there was no public trading market for our common stock.

#### **Holders of Record**

As of February 29, 2024, there were 81 holders of record of our common stock. Certain shares are held in “street” name and, accordingly, the number of beneficial owners of such shares is not known or included in the foregoing number.

#### **Dividend Policy**

We have not declared or paid any cash dividends on our capital stock since our inception. We intend to retain future earnings, if any, to finance the operation and expansion of our business and do not anticipate paying any cash dividends in the foreseeable future. Payment of future cash dividends, if any, will be at the discretion of our board of directors after taking into account various factors, including our financial condition, operating results, current and anticipated cash needs, the requirements and contractual restrictions of then-existing debt instruments and other factors that our board of directors deems relevant.

#### **Unregistered Sales of Equity Securities**

None.

#### **Use of Proceeds from Initial Public Offering of Common Stock**

The offer and sale of the shares in the initial public offering was registered under the Securities Act pursuant to registration statements on Form S-1 (File No. 333- 239490), which was filed with the SEC on June 26, 2020 and amended subsequently and declared effective on July 16, 2020, and Form S-1MEF, which was filed with the SEC on July 16, 2020 and became effective on July 16, 2020. The underwriters of the offering were Jefferies LLC, Credit Suisse Securities (USA) LLC, Piper Sandler & Co. and Cantor Fitzgerald & Co.

We invested the funds received in accordance with our investment policy. None of such payments were direct or indirect payments to any of our directors or officers (or their associates), to persons owning ten percent or more of our common stock or to any other affiliates. There has been no material change in the planned use of proceeds from our initial public offering as described in our final prospectus filed with the SEC on July 17, 2020 pursuant to Rule 424(b)(4).

#### **Issuer Purchases of Equity Securities**

None.

### **Item 6. [Reserved]**

## Item 7. Management’s Discussion and Analysis of Financial Condition and Results of Operations.

*You should read the following discussion of our financial condition and results of operations together with our consolidated financial statements and related notes included elsewhere in this Annual Report on Form 10-K. This discussion and analysis generally addresses 2023 and 2022 items and year-over-year comparisons between 2023 and 2022. Discussions of 2021 items and year-over-year comparisons between 2022 and 2021 that are not included in this Annual Report on Form 10-K can be found in “Item 7. Management’s Discussion and Analysis of Financial Condition and Results of Operations” in our Annual Report on Form 10-K for the fiscal year ended December 31, 2022, filed with the SEC on March 9, 2023. Some of the information contained in this discussion and analysis, including information with respect to our plans and strategy for our business, include forward-looking statements that involve risks and uncertainties. Our actual results could differ materially from those anticipated in these forward-looking statements as a result of various factors, including those set forth under “Risk Factors” and elsewhere in this Annual Report on Form 10-K.*

### Overview

We are a clinical-stage immuno-oncology company focused on helping patients fight cancer by developing therapies that block the CD47 immune checkpoint and bridge the innate and adaptive immune system. Our lead product candidate, the CD47 blocker evorpaccept, is currently in multiple Phase 1 and 2 clinical trials. Cancer cells leverage CD47, a cell surface protein, as a “don’t eat me” signal to evade macrophage phagocytosis or as a “don’t activate T-cells” signal that prevents activation of T-cells by dendritic cells. We are developing evorpaccept to be a next-generation checkpoint inhibitor designed to have a high affinity for CD47 and to avoid the limitations caused by hematologic toxicities inherent in other CD47 blocking approaches.

Evorpaccept is a next-generation CD47 blocking therapeutic that we believe has significantly enhanced properties compared to competing CD47 blocking approaches. Evorpaccept is a fusion protein that combines a high-affinity CD47 binding domain with a proprietary inactivated Fc domain. The CD47 binding domain of evorpaccept is an affinity enhanced extracellular domain of SIRP $\alpha$ , a protein that is the natural receptor to CD47 found on myeloid cells. We have engineered the Fc domain of evorpaccept so that it does not provide a pro-phagocytic signal while still maintaining an antibody-like half-life for the molecule. We believe our inactive Fc approach improves tolerability when compared to other CD47 blocking approaches that have an Fc domain that engages activating receptors on macrophages, causing phagocytosis and death of healthy cells in addition to cancer cells.

Evorpaccept’s design has several advantages that we believe will make it broadly applicable to treating a number of oncology indications. Due to the inactive Fc, evorpaccept is specifically designed for use in combination with other anti-cancer agents that provide a positive immune-stimulating signal. We believe evorpaccept has a favorable tolerability profile that may enable higher dosing levels and greater combination potential with other leading anti-cancer agents.

We are focused on evorpaccept development with the standard-of-care agents, revolving around these two cell types: macrophages and dendritic cells. We initially pursued, and continue to pursue, development of evorpaccept based on two well-validated mechanisms of action involving SIRP alpha expression on macrophages and dendritic cells as discussed below. In April 2020, we began exploring a third less well-validated mechanism of action, which led us to test the combination of evorpaccept with azacitidine in myelodysplastic syndromes (MDS) patients, but our data failed to validate this third mechanism as discussed below.

The distinct mechanism of actions and examples of the combinations of priority are:

(1) **Anti-cancer antibodies (the “don’t eat me” signal): Combining with anti-cancer targeted antibodies with an active Fc domain, where evorpaccept enables the Fc-mediated antibody dependent phagocytosis that is impaired by the expression of CD47 on cancer cells.**

The positive interim data in our randomized ASPEN-06 clinical trial supports the clinical validation of this mechanism of action. ASPEN-06 evaluates the contribution of evorpaccept to HERCEPTIN<sup>®</sup> (trastuzumab) plus standard of care (CYRAMZA<sup>®</sup> (ramucirumab) + paclitaxel) versus standard of care plus HERCEPTIN in second line or later HER2-positive gastric/gastroesophageal junction (GEJ) cancer.

- o Demonstrated evorpaccept + trastuzumab + ramucirumab + paclitaxel improved response activity (52% overall response rate (ORR), median duration of response (mDOR) not reached) compared to that of the trastuzumab + ramucirumab + paclitaxel backbone (22% ORR, mDOR 7.4 m).
- o Clinical activity of evorpaccept + trastuzumab + ramucirumab + paclitaxel compares favorably to the RAINBOW historical data where ramucirumab + paclitaxel demonstrated a 28% confirmed ORR and 4.4 month mDOR, as well as to DESTINY-Gastric01 where ENHERTU<sup>®</sup> (fam-trastuzumab deruxtecan-nxki) reported a 41% confirmed ORR and mDOR of 11.3 months.
- o Initial magnitude of improvement in ORR over available therapy and over the concurrent control arm with this well-tolerated combination suggests that evorpaccept in combination with trastuzumab, ramucirumab, and paclitaxel could benefit patients with HER2-overexpressing advanced gastric/GEJ cancer.

Our earlier ASPEN-01 Phase 1 positive data in combination with rituximab in non-Hodgkin lymphoma (NHL) provide additional support for the clinical validation of this mechanism of action and support exploring combinations of evorpaccept with other anti-cancer antibodies.

This mechanism of action may also apply to antibody-drug conjugates (ADCs), which are being investigated in two separate Phase 1 trials: one in combination with PADCEV® (enfortumab vedotin-ejfv) in patients with urothelial cancer (ASPEN-07), and the other in combination with fam-trastuzumab deruxtecan-nxki in patients with unresectable or metastatic HER2-positive and HER2-low breast cancer.

(2) **PD-1/PD-L1 immune checkpoint inhibitors (the “don’t activate T-cells” signal): Combining with PD-1/PD-L1 checkpoint inhibitor, where evorpaccept activates dendritic cells that are constitutively inhibited by the CD47/ SIRP alpha pathway.**

Activated dendritic cells present neoantigens to T-cells that, once activated, will kill cancer cells when the PD-1/PD-L1 inhibitory interaction is blocked by T-cell checkpoint inhibitors. The combination with a PD-1/PD-L1 checkpoint inhibitor allows maximum activity of these newly activated T-cells. This mechanism of action includes our clinical trials, ASPEN-03 and ASPEN-04, two randomized Phase 2 studies in combination with KEYTRUDA® (pembrolizumab), without or with chemotherapy, respectively, comparing to the same treatments without evorpaccept, in first line head and neck squamous cell carcinoma (HNSCC). Validation of this mechanism is supported by our Phase 1 data (N=23) in the same indications and combinations where we saw an improvement in overall survival (OS) at 12 months with respect to historical data.

(3) **Hypomethylation agents: Combining with azacitidine, which is described to upregulate calreticulin and potentially promote macrophage dependent phagocytosis that is inhibited by CD47. We now consider this a failed mechanistic hypothesis.**

This mechanistic hypothesis was tested and ultimately not supported in our clinical trial, ASPEN-02, a Phase 1b dose optimization study evaluating evorpaccept in combination with azacitidine for the treatment of MDS. Initial support for exploring this mechanism was provided by Phase 1b initial clinical data of magrolimab, an anti CD47 antibody with active Fc, being developed by Gilead, which showed improvements in complete response (CR) rate compared to historical data in addition to a significant increase in cytopenias. As we reported in August 2023, in our preliminary data review of our Phase 1 study, ASPEN-02, despite being well tolerated, evorpaccept did not yield sufficient activity to support progression to Phase 2 trials. Gilead has since discontinued its Phase 3 magrolimab trials with this combination in both acute myeloid leukemia (AML) and MDS due to lack of efficacy. Based upon trial results, we are no longer planning to pursue combinations based upon this mechanism of action. Resources originally earmarked for these trials will be allocated to support our ongoing programs evaluating combinations with anti-cancer antibodies and PD-1/PD-L1 immune checkpoint inhibitors.

We are pursuing the following clinical programs, collaborations, and investigator sponsored trials:

***Evorpaccept***

*Combination with anti-cancer antibody*

- ASPEN-06 - Gastric/GEJ Cancer
  - In January 2020, the FDA granted Fast Track designation for evorpaccept in combination with trastuzumab, ramucirumab and paclitaxel for the treatment of patients with HER2-overexpressing advanced gastric or GEJ adenocarcinoma with disease progression on or after prior trastuzumab and fluoropyrimidine or platinum containing chemotherapy.
  - In January 2022, the FDA’s Office of Orphan Products Development granted Orphan Drug Designation (ODD) to evorpaccept for the treatment of patients with gastric/GEJ cancer.
  - In March 2022, we announced the dosing of the first patient in the ASPEN-06 trial, a randomized Phase 2/3 trial of evorpaccept in combination with trastuzumab, ramucirumab and paclitaxel for the treatment of second- and third-line advanced HER2-overexpressing gastric/GEJ cancer.
  - In June 2023, the European Commission granted ODD to evorpaccept for the treatment of patients with gastric/GEJ cancer.
  - In October 2023, we announced positive prespecified interim Phase 2 clinical data from our ASPEN-06 clinical trial. This prespecified interim analysis reported results from 54 randomized patients with second and third line gastric/GEJ cancer, including patients previously treated with fam-trastuzumab deruxtecan-nxki and checkpoint inhibitors. A confirmed overall response rate (ORR) of 52% was demonstrated for evorpaccept in combination with trastuzumab + ramucirumab + paclitaxel compared to 22% for the control group of trastuzumab + ramucirumab + paclitaxel. Median duration of response (mDOR) was not reached for the evorpaccept combination treatment arm



compared to 7.4 months for the control group. The safety profile of evorpaccept was consistent with previous clinical trials and was well-tolerated.

#### *Combination with antibody drug conjugate (ADC)*

- ASPEN-07 - Urothelial Cancer (UC)
  - In February 2023, we announced the dosing of the first patient in the ASPEN-07 trial, a Phase 1 study evaluating evorpaccept in combination with an ADC, enfortumab vedotin-ejfv, for the second-line treatment of locally advanced or metastatic UC.

#### *Combination with PD-1/PD-L1 immune checkpoint inhibitor*

- ASPEN-03 - Head and Neck Squamous Cell Carcinoma
  - In May 2021, we announced the dosing of the first patient in the ASPEN-03 trial, a randomized Phase 2 trial of evorpaccept in combination with pembrolizumab for the treatment of first-line advanced PD-L1 positive HNSCC.
  - In July 2022, the Food and Drug Administration (FDA) granted Fast Track designation for evorpaccept in combination with pembrolizumab for first-line treatment of adult patients with metastatic or unresectable, recurrent HNSCC whose tumors express PD-L1.
- ASPEN-04 - Head and Neck Squamous Cell Carcinoma
  - In February 2020, the FDA granted Fast Track designation for evorpaccept in combination with pembrolizumab, platinum, and fluorouracil for the first-line treatment of adult patients with metastatic or unresectable, recurrent HNSCC.
  - In July 2021, we announced the dosing of the first patient in the ASPEN-04 trial, a randomized Phase 2 trial of evorpaccept in combination with pembrolizumab, platinum, and fluorouracil for the treatment of first-line advanced HNSCC.

#### ***Collaborations and Investigator-Sponsored Trials (ISTs)***

##### *Combination with anti-cancer antibody*

- Jazz Pharmaceuticals plc - Breast Cancer
  - Our collaborator, Jazz Pharmaceuticals plc (Jazz), is sponsoring and managing an ongoing Phase 1 trial of zanidatamab for the treatment of advanced HER2-expressing breast cancer and other solid tumors in combination with evorpaccept (Zanidatamab Trial). We announced the dosing of the first patient in this trial in October 2021.
  - Our initial collaborator for the Zanidatamab Trial was Zymeworks Inc. (Zymeworks), however in a series of transactions commencing in October 2022, Jazz assumed responsibility from Zymeworks for the development and commercialization of zanidatamab in the United States, Europe, Japan and certain other territories, including responsibility for the Zanidatamab Trial.
- Quantum Leap Healthcare Collaborative - I-SPY Trial - Breast Cancer
  - Our collaborator, Quantum Leap Healthcare Collaborative (Quantum Leap), is sponsoring and managing an ongoing Phase 1 trial (I-SPY) to evaluate evorpaccept in combination with an ADC, fam-trastuzumab deruxtecan-nxki, for the treatment of patients with unresectable or metastatic HER2-positive and HER2-low breast cancer. We announced the dosing of the first patient in March 2023.
- MD Anderson Cancer Center - Non-Hodgkin Lymphoma
  - In 2021, an IST of evorpaccept was initiated in combination with rituximab and lenalidomide for the treatment of patients with indolent and aggressive NHL, sponsored by MD Anderson Cancer Center in Texas. We announced the dosing of the first patient in September 2021.
- Sanofi - Multiple Myeloma
  - In April 2023, we announced a collaboration with Sanofi who will sponsor and manage a Phase 1/2 trial of isatuximab and dexamethasone in combination with evorpaccept for the treatment of patients with relapsed or refractory multiple myeloma.

##### *Combination with anti-cancer antibody and PD-1/PD-L1 immune checkpoint inhibitor*

- Academic Gastrointestinal Cancer Consortium - Colorectal Cancer
  - In 2022, a Phase 2 IST of evorpaccept was initiated in combination with pembrolizumab and cetuximab in patients with refractory microsatellite stable metastatic colorectal cancer, sponsored by the Academic Gastrointestinal Cancer Consortium (AGICC) in New York. We announced the dosing of the first patient in August 2022.

### *Combination with PD-1/PD-L1 immune checkpoint inhibitor*

- University of Pittsburgh - Ovarian Cancer
  - In 2023, a Phase 2 IST of evorpacept was initiated in combination with liposomal doxorubicin and pembrolizumab in patients with recurrent platinum-resistant ovarian cancer, sponsored by the University of Pittsburgh in Pennsylvania. We announced the dosing of the first patient in May 2023.

### ***Pre-clinical Programs***

- Tallac Therapeutics - ALTA-002
  - Our second program, ALTA-002, is a collaboration between us and Tallac Therapeutics, Inc. (Tallac) that combines our company's SIRP $\alpha$  antibody with Tallac's toll-like receptor 9 (TLR9) agonist, resulting in a potent immune activator targeted to myeloid cells in the tumor to promote innate and adaptive anti-cancer immune responses. This novel Toll-like receptor agonist antibody conjugation platform (TRAAC) enables systemic delivery of targeted TLR9 activation.

Based on our clinical results to date in multiple oncology indications that show encouraging anti-tumor activity and tolerability and our clinical development plans, our strategy is to pursue evorpacept as a potentially critical component of future oncology combination treatments.

Additionally, with our acquisition of ScalmiBio, Inc. (ScalmiBio) in October 2021, we are developing ADC drug candidates based on our expertise in protein engineering and oncology.

Since our founding, we have devoted substantially all of our resources to developing evorpacept, identifying and advancing preclinical programs, scaling up manufacturing, conducting clinical trials and providing general and administrative support for these operations. We have no products approved for marketing and we have never received any revenue from drug product sales.

In July 2020, we completed our initial public offering, raising net proceeds of \$169.5 million, after deducting underwriting discounts and commissions of \$13.0 million and offering-related expenses of \$3.2 million. In December 2020, we completed a follow-on offering, raising net proceeds of \$194.9 million, after deducting underwriting discounts and commissions of \$12.5 million and offering-related expenses of \$0.7 million.

In March 2022, we filed a universal shelf registration statement (Shelf Registration Statement), which provides for aggregate offerings of up to \$450.0 million of the Company's securities. In May 2022, we filed an amendment to the Shelf Registration Statement, which was declared effective by the Securities and Exchange Commission (SEC) on May 31, 2022. We believe that our Shelf Registration Statement provides us with flexibility to raise additional capital to finance our operations as needed. In December 2021, we entered into a sales agreement (Sales Agreement) with Cantor Fitzgerald & Co. and Credit Suisse Securities (USA) LLC (Credit Suisse), under which we may, subject to the effectiveness of the Shelf Registration Statement, offer and sell our common stock, having aggregate gross proceeds of up to \$150.0 million, from time to time through them as our sales agents in an at-the-market offering. In August 2023, we entered into an amendment to the Sales Agreement to include UBS Securities LLC as an additional sales agent and to remove Credit Suisse as a sales agent.

In October 2022, we entered into a loan and security agreement (Loan Agreement) with Oxford Finance LLC, Oxford Finance Credit Fund II LP, and Silicon Valley Bank (SVB) (collectively, the Lenders). Upon closing of the Loan Agreement, we drew \$10.0 million and have access to draw an additional \$40.0 million through the end of 2023. A further \$50.0 million may become available to us, \$25.0 million upon the achievement of pre-determined development milestones and \$25.0 million at the Lenders' sole discretion. The Company received net proceeds of \$9.3 million from the issuance of the term loan, after deducting debt issuance costs of approximately \$0.7 million.

In March 2023, SVB was closed by the California Department of Financial Protection and Innovation, which appointed the Federal Deposit Insurance Corporation (FDIC) to act as receiver. The FDIC created Silicon Valley Bridge Bank, N.A. (SVBB) as successor to SVB. First Citizens BancShares, Inc. (First Citizens Bank) acquired SVBB from the FDIC and operates SVBB as Silicon Valley Bank, a division of First Citizens Bank (SVB-First Citizens). Under the Loan Agreement, 50% of the funding comes from SVB, one of the three Lenders. Given the SVBB acquisition by First Citizens Bank, SVB-First Citizens will continue to fulfill SVB's obligations under the Loan Agreement.

In May 2023, we entered into a second amendment to the Loan Agreement. The primary purpose of the second amendment was to reduce the percentage of the amount required to be held in our collateral account with SVB-First Citizens from 100% to not less than 50% of the aggregate dollar value of all our collateral accounts.

In October 2023, we completed an underwritten follow-on public offering pursuant to the Shelf Registration Statement (the October 2023 Offering). In the follow-on public offering, we issued and sold an aggregate of 8,663,793 shares of common stock, including the underwriters' exercise in full of their overallotment option of 1,293,103 shares of common stock, and, in lieu of common stock to certain investors, pre-funded warrants to purchase 1,250,000 shares of common stock at a public offering price of \$6.38 per

share and \$6.379 per pre-funded warrant. Net proceeds were approximately \$58.9 million, after deducting underwriting discounts and commissions of \$3.8 million and offering-related expenses of \$0.6 million.

In December 2023, we entered into a third amendment to the Loan Agreement. The primary purpose of the third amendment was to (i) extend the draw period for the first tranche loans from December 31, 2023 to June 30, 2024, (ii) add as a condition for the funding of any first tranche loans after the effective date of the amendment, requirement that the Phase 2 portion of the ASPEN-06 study in gastric/GEJ cancer either remains ongoing or the achievement of a milestone related to the development of the ASPEN-06 study, and (iii) add a contingency fee in the amount of \$0.6 million to the Lenders if the Company prepays any of the loans under the Loan Agreement other than in connection with refinancing of the Loan Agreement with the Lenders and their affiliates.

From inception through December 31, 2023, we have raised an aggregate of \$613.6 million to fund our operations, of which \$175.1 million were net proceeds from sales of our convertible preferred stock, \$5.8 million were net proceeds from borrowings under a term loan, \$169.5 million were net proceeds from our initial public offering, \$194.9 million were net proceeds from our follow-on offering, \$9.3 million were net proceeds from borrowings under the Loan Agreement, and \$58.9 million were net proceeds from our follow-on offering in October 2023.

We have incurred net losses in each year since inception. Our net losses were \$160.8 million, \$123.5 million and \$83.5 million for the years ended December 31, 2023, 2022 and 2021, respectively. As of December 31, 2023, we had an accumulated deficit of \$486.3 million. Substantially all of our operating losses are a result of expenses incurred in connection with our research and development programs, primarily evorpacept, and from general and administrative expenses associated with our operations.

We expect to continue to incur significant expenses and increasing operating losses for the foreseeable future. We expect our expenses will increase substantially in connection with our ongoing activities, as we:

- advance evorpacept through multiple clinical trials in multiple indications;
- pursue regulatory approval of evorpacept in solid tumors and hematological malignancies;
- continue our discovery and preclinical and clinical development efforts, including our collaborations with Sanofi, Tallac, Jazz, and Quantum Leap and our acquisition of ScalmiBio;
- obtain and maintain patent, trade secret and other intellectual property protection and regulatory exclusivity for our product candidates;
- manufacture supplies for our preclinical studies and clinical trials; and
- continue to add operational, financial and management information systems to support ongoing operations as a public company.

## **Components of Results of Operations**

### ***Operating Expenses***

#### ***Research and Development Expenses***

Research and development expenses consist primarily of costs incurred for the development of our lead product candidate, evorpacept, which include:

- expenses incurred in connection with preclinical and clinical development, including expenses incurred under collaboration agreements and under agreements with contract research organizations, or CROs;
- employee-related expenses, including salaries, related benefits, travel and stock-based compensation expenses for employees engaged in research and development functions;
- expenses related to production of clinical materials, including fees paid to contract manufacturing organizations, or CMOs;
- laboratory, vendor expenses and third-party drugs related to the execution of preclinical studies and clinical trials;
- facilities and other expenses, which include expenses for rent and maintenance of facilities, depreciation and amortization expense and other supplies; and
- acquired in-process research and development (IPR&D) and milestone payments related to our ScalmiBio acquisition.

We expense research and development costs as incurred. Nonrefundable advance payments for goods or services to be received in future periods for use in research and development activities are deferred and capitalized. The capitalized amounts are then expensed as the related goods are delivered or as services are performed. We record accruals for estimated costs of research,

preclinical studies, clinical trials and manufacturing development, which are a significant component of research and development expenses. We determine the estimated costs through discussions with internal personnel and external service providers as to the progress or stage of completion of the services and the agreed-upon fees to be paid for such services.

Our research and development expenses consist primarily of costs associated with the development of our lead product candidate, evorpacept, and include external costs, such as fees paid to consultants, central laboratories, contractors, collaborators, CMOs and CROs in connection with our preclinical and clinical development activities.

Almost all of our research and development expenses to date have been related to the clinical development of our lead product candidate, evorpacept. We expect our research and development expenses to increase substantially for the foreseeable future as we continue to invest in research and development activities related to progress on our existing product candidates and developing new product candidates. As our product candidates advance into later stages of development, we begin to conduct larger clinical trials. The process of conducting the necessary clinical trials to obtain regulatory approval is costly and time-consuming, and the successful development of our product candidates is highly uncertain. As a result, we are unable to determine the duration and completion costs of our research and development projects or when and to what extent we will generate revenue from the commercialization and sale of any of our product candidates. In addition, we will incur expenses related to the preclinical research conducted internally and through the contract with Tallac Therapeutics, as further described in Note 11 to our consolidated financial statements appearing elsewhere in this Annual Report on Form 10-K.

The successful development of our current and future product candidates is highly uncertain. This is due to numerous risks and uncertainties, including the following:

- successful completion of preclinical studies and clinical trials;
- delays in regulators or institutional review boards authorizing us or our investigators to commence our clinical trials;
- our ability to negotiate agreements with clinical trial sites or CROs;
- the number and location of clinical sites included in the trials;
- raising additional funds necessary to complete clinical development of our product candidates;
- obtaining and maintaining patent, trade secret and other intellectual property protection and regulatory exclusivity for our product candidates;
- contracting with third-party manufacturers for clinical supplies of our product candidates;
- protecting and enforcing our rights in our intellectual property portfolio, including, if necessary, litigation; and
- maintaining a continued acceptable safety profile of the products following approval.

A change in the outcome of any of these variables with respect to the development of our product candidates may significantly impact the costs and timing associated with the development of our product candidates. We may never succeed in obtaining regulatory approval for any of our product candidates.

Research and development activities are essential to our business model. There are numerous factors associated with the successful commercialization of our product candidates, including future trial design and various regulatory requirements, many of which cannot be determined with accuracy at this time based on our stage of development. In addition, future regulatory factors beyond our control may impact the success, cost or timing of our clinical development programs.

### ***General and Administrative Expenses***

General and administrative expenses consist primarily of personnel-related expenses, business development expenses, facilities expenses, depreciation and amortization expenses and professional services expenses, including legal, human resources, audit, accounting and tax-related services, and directors and officers liability insurance premiums. Personnel and related costs consist of salaries, benefits and stock-based compensation expenses. Facilities costs consist of rent and maintenance of facilities.

We anticipate that our general and administrative expenses will continue to increase as a result of increased headcount, inflationary pressures, expanded infrastructure and higher costs of consulting, legal, tax and regulatory-related services associated with maintaining compliance with stock exchange listing and SEC requirements, audit and investor relations costs, director and officer insurance premiums and other costs associated with being a public company.

### ***Interest Income***

Our interest income consists primarily of interest income on cash, cash equivalents and short-term and long-term investments.

### ***Interest Expense***

Our interest expense consists primarily of interest expense on the term loan, amortization of deferred debt issuance costs, and interest related to finance leases.

### ***Other Income (Expense), Net***

Our other income (expense), net consists primarily of realized foreign currency transaction gains and losses and other income from an immaterial service contract.

## **Results of Operations and Net Loss**

### ***Comparisons of the Years Ended December 31, 2023 and 2022***

The following table summarizes our results of operations for the years ended December 31, 2023 and 2022 (in thousands):

	<b>Year Ended December 31,</b>		<b>Change</b>	
	<b>2023</b>	<b>2022</b>	<b>\$</b>	<b>%</b>
Operating expenses:				
Research and development	\$ 141,795	\$ 98,400	\$ 43,395	44%
General and administrative	28,483	29,036	(553)	-2%
Total operating expenses	<u>170,278</u>	<u>127,436</u>	<u>42,842</u>	<u>34%</u>
Loss from operations	(170,278)	(127,436)	(42,842)	34%
Interest income	10,649	4,278	6,371	149%
Interest expense	(1,565)	(238)	(1,327)	558%
Other income (expense), net	389	(22)	411	-1868%
Loss before income taxes	<u>(160,805)</u>	<u>(123,418)</u>	<u>(37,387)</u>	<u>30%</u>
Income tax (provision) benefit	—	(64)	64	-100%
Net loss	<u>\$ (160,805)</u>	<u>\$ (123,482)</u>	<u>\$ (37,323)</u>	<u>30%</u>

### ***Research and Development Expenses***

The following table summarizes our research and development expenses incurred for the years ended December 31, 2023 and 2022 (in thousands):

	<b>Year Ended December 31,</b>		<b>Change</b>	
	<b>2023</b>	<b>2022</b>	<b>\$</b>	<b>%</b>
Clinical and development costs	\$ 99,362	\$ 63,426	\$ 35,936	57%
Preclinical costs	3,682	3,925	(243)	-6%
Personnel and related costs	19,407	14,465	4,942	34%
Stock-based compensation expense	14,665	10,741	3,924	37%
Other research costs	4,679	5,843	(1,164)	-20%
Total research and development expenses	<u>\$ 141,795</u>	<u>\$ 98,400</u>	<u>\$ 43,395</u>	<u>44%</u>

Research and development (R&D) expenses increased by \$43.4 million for the year ended December 31, 2023 compared to the year ended December 31, 2022. The increase was primarily attributable to (i) an increase of \$35.9 million in clinical and development costs primarily due to increase of \$39.9 million in costs to support a higher number of active clinical trials and future expected patient enrollment for the advancement of our lead product candidate, evorpcept, including costs to manufacture clinical trial materials, and an increase of \$0.9 million related to the Zymeworks/Jazz Collaboration due to increase in patient enrollment, offset by a \$4.8 million decrease related to the Tallac Collaboration for costs related to the IND filing planned for the first quarter of 2024, for which the primary work was completed in 2022, (ii) an increase of \$4.9 million in personnel and related costs due primarily to a \$6.4 million increase driven by headcount growth offset by a \$1.5 million decrease due to absence of retention bonus paid to ScalmiBio stockholders in the current year compared to prior year, (iii) an increase of \$3.9 million in stock-based compensation expense primarily due to a full year of expense for awards granted during the year ended December 31, 2022 as well as additional awards granted since December 31, 2022 and a change in role for our former Chief Executive Officer who transitioned in September 2023 to the Chief Scientific Officer role, which is solely focused on R&D activities, resulting in additional R&D stock-based compensation, and (iv) a decrease of \$1.2 million in other research costs due primarily to a decrease of \$2.5 million in VAT fees related to companion drugs purchase for use in our clinical trials offset by an increase of \$1.5 million in facility and IT costs due to substantial increase in R&D headcount as compared to G&A headcount leading to higher percentage of allocation of costs to R&D.



## General and Administrative Expenses

The following table summarizes our general and administrative expenses incurred for the years ended December 31, 2023 and 2022 (in thousands):

	Year Ended December 31,		Change	
	2023	2022	\$	%
Personnel and related costs	\$ 7,100	\$ 5,767	\$ 1,333	23%
Stock-based compensation expense	11,608	13,098	(1,490)	-11%
Other general and administrative costs	9,775	10,171	(396)	-4%
Total general and administrative expenses	<u>\$ 28,483</u>	<u>\$ 29,036</u>	<u>\$ (553)</u>	<u>-2%</u>

General and administrative expenses decreased by \$0.6 million for the year ended December 31, 2023 compared to the year ended December 31, 2022. The decrease was primarily attributable to (i) a decrease of \$1.5 million in stock-based compensation expense due to a change in role for our former Chief Executive Officer who transitioned in September 2023 to the Chief Scientific Officer role, which is solely focused on R&D activities, resulting in reduction in G&A stock-based compensation, (ii) a decrease of \$0.4 million in other costs primarily driven by decrease in business insurance costs, and (iii) an increase of \$1.3 million in personnel and related costs primarily driven by merit increases.

## Interest Income

Interest income increased by \$6.4 million for the year ended December 31, 2023 compared to the year ended December 31, 2022. The increases were primarily attributable to higher interest rates.

## Interest Expense

Interest expense increased by \$1.3 million for the year ended December 31, 2023 compared to the year ended December 31, 2022. The increase was primarily attributable to interest expense associated with the Loan Agreement, which the Company entered into in October 2022. There was a full twelve months of interest expense in 2023 as compared to 2022, when the Company only incurred interest expense from October to December.

## Other Income (Expense), Net

Other income (expense), net increased by \$0.4 million for the year ended December 31, 2023 compared to the year ended December 31, 2022. The increase was primarily attributable to other income from an immaterial service contract, under which the Company provides R&D services for another company. There was no comparable other income during the nine months ended December 31, 2022.

## Liquidity and Capital Resources; Plan of Operations

### Sources of Liquidity

Since our inception, we have incurred significant operating losses and have not generated any product revenue. We have not yet commercialized any of our product candidates and we do not expect to generate revenue from sales of any product candidates for several years, if at all, subject to regulatory and marketing approval of any of our product candidates. To date, we have funded our operations with proceeds from the sales of shares of our common stock and convertible preferred stock and borrowings under our term loan. As of December 31, 2023, we had cash, cash equivalents and short-term and long-term investments of \$218.1 million.

### Funding Requirements

We have incurred losses and negative cash flows from operations since inception and anticipate that we will continue to incur net losses for the foreseeable future. As of December 31, 2023, we had an accumulated deficit of \$486.3 million. We expect our expenses to increase substantially in connection with our ongoing activities, particularly as we advance the preclinical activities and clinical trials for our product candidates in development. In addition, we expect to incur additional costs associated with operating as a public company. Management recognizes the need to raise additional capital to fully implement its business plan. The timing and amount of such future capital requirements are difficult to forecast and will depend on many factors, including:

- the timing and progress of preclinical and clinical development activities;
- successful enrollment in and completion of clinical trials;
- the timing and outcome of regulatory review of our product candidates;

- our ability to establish agreements with third-party manufacturers for clinical supply for our clinical trials and, if any of our product candidates are approved, commercial manufacturing;
- addition and retention of key research and development personnel;
- our efforts to enhance operational, financial and information management systems, and hire additional personnel, including personnel to support development of our product candidates;
- the costs and timing of future commercialization activities, including product manufacturing, marketing, sales and distribution, for any of our product candidates for which we obtain marketing approval;
- the legal patent costs involved in prosecuting patent applications and enforcing patent claims and other intellectual property claims;
- the terms and timing of any collaboration, license or other arrangement, including the terms and timing of any milestone and royalty payments thereunder;
- macroeconomic conditions, such as inflation, economic downturns, disasters, and medical or public health crises; and
- the impact of the COVID-19 pandemic, bank failures or instability in the financial services sector, or geopolitical risks, which may exacerbate the magnitude of the factors discussed above.

Until such time, if ever, as we can generate substantial product revenue, we expect to finance our operations through a combination of equity offerings, debt financings, collaborations, strategic alliances and marketing, distribution or licensing arrangements. Other than the Loan Agreement, we do not have any committed external source of funds. Our ability to raise additional capital may be adversely impacted by potential worsening global economic conditions and the recent disruptions to and volatility in the credit and financial markets in the United States and worldwide. To the extent that we raise additional capital through the sale of equity or convertible debt securities, your ownership interest will be diluted, and the terms of these securities may include liquidation or other preferences that adversely affect your rights as a common stockholder. Debt financing and preferred equity financing, if available, may involve agreements that include covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, making acquisitions or capital expenditures or declaring dividends. If we raise additional funds through collaborations, strategic alliances or marketing, distribution or licensing arrangements with third parties, we may have to relinquish valuable rights to our technologies, future revenue streams, research programs or drug candidates or grant licenses on terms that may not be favorable to us. If we are unable to raise additional funds through equity or debt financings or other arrangements when needed, we may be required to delay, limit, reduce or terminate our research, product development or future commercialization efforts or grant rights to develop and market drug candidates that we would otherwise prefer to develop and market ourselves.

In July 2020, we completed our initial public offering pursuant to a registration statement on Form S-1. In the initial public offering, we issued and sold an aggregate of 9,775,000 shares of common stock, including the underwriters' exercise in full of their overallotment option, under the registration statement at a public offering price of \$19.00 per share. Net proceeds were approximately \$169.5 million, after deducting underwriting discounts and commissions of \$13.0 million and offering-related expenses of \$3.2 million.

In December 2020, we completed our follow-on public offering pursuant to a registration statement on Form S-1. In the follow-on public offering, we issued and sold an aggregate of 2,737,000 shares of common stock, including the underwriters' exercise in full of their overallotment option, under the registration statement at a public offering price of \$76.00 per share. Net proceeds were approximately \$194.9 million, after deducting underwriting discounts and commissions of \$12.5 million and offering-related expenses of \$0.7 million.

In December 2021, we entered into a sales agreement with Cantor Fitzgerald & Co. and Credit Suisse Securities (USA) LLC, under which we may offer and sell our common stock, having aggregate gross proceeds of up to \$150.0 million, from time to time through them as our sales agents in our at-the-market equity offering program. In March 2022, we filed a Shelf Registration Statement with the SEC. In May 2022, we filed an amended Shelf Registration Statement, which was declared effective by the SEC on May 31, 2022. In August 2023, we entered into an amendment to the Sales Agreement to include UBS Securities LLC as an additional sales agent and to remove Credit Suisse as a sales agent.

In October 2022, we entered into the Loan Agreement as described above. Upon closing of the Loan Agreement, we drew \$10.0 million and have access to draw an additional \$40.0 million through the end of 2023. A further \$50.0 million may become available to us, \$25.0 million upon the achievement of pre-determined development milestones and \$25.0 million at the Lenders' sole discretion. For a description of the terms of the Loan Agreement, see "Note 7. Term Loan" to our consolidated financial statements included elsewhere in this Annual Report on Form 10-K. On May 31, 2023, we entered into a second amendment to the Loan Agreement. The primary purpose of the second amendment was to reduce the percentage of the amount required to be held in our collateral account with SVB-First Citizens from 100% to not less than 50% of the aggregate dollar value of all our collateral accounts.

In March 2023, SVB was closed by the California Department of Financial Protection and Innovation, which appointed the FDIC to act as receiver. The FDIC created SVBB as successor to SVB. First Citizens Bank acquired SVBB from the FDIC and operates SVBB as SVB-First Citizens. While we have cash in operating accounts with SVB, the majority of our cash, cash equivalents and investments are deposited in custodial accounts held by U.S. Bank for which SVB Asset Management is the investment advisor. There has been no material negative impact to our cash liquidity as a result of the closure of SVB or the subsequent acquisition of SVBB by First Citizens Bank. Under the Loan Agreement, 50% of the funding comes from SVB, one of the three Lenders. Given the SVBB acquisition by First Citizens Bank, SVB-First Citizens will continue to fulfill SVB's obligations under the Loan Agreement.

In October 2023, we completed the October 2023 Offering. In the follow-on public offering, we issued and sold an aggregate of 8,663,793 shares of common stock, including the underwriters' exercise in full of their overallotment option of 1,293,103 shares of common stock, and, in lieu of common stock to certain investors, pre-funded warrants to purchase 1,250,000 shares of common stock at a public offering price of \$6.38 per share and \$6.379 per pre-funded warrant. Net proceeds were approximately \$58.9 million, after deducting underwriting discounts and commissions of \$3.8 million and offering-related expenses of \$0.6 million.

In December 2023, we entered into a third amendment to the Loan Agreement. The primary purpose of the third amendment was to (i) extend the draw period for the first tranche loans from December 31, 2023 to June 30, 2024, (ii) add as a condition for the funding of any first tranche loans after the effective date of the amendment, requirement that the Phase 2 portion of the ASPEN-06 study in gastric/GEJ cancer either remains ongoing or the achievement of a milestone related to the development of the ASPEN-06 study, and (iii) add a contingency fee in the amount of \$0.6 million to the Lenders if the Company prepays any of the loans under the Loan Agreement other than in connection with refinancing of the Loan Agreement with the Lenders and their affiliates.

We believe our existing cash, cash equivalents, short-term and long-term investments along with the ability to draw down an additional \$40 million of our term loan at our discretion will enable us to fund our operating expenses and capital expenditure requirements into early 2026. We have based these estimates on assumptions in which actuals may materially differ, and we could utilize our available capital resources sooner than we expect.

### ***Cash Flows***

The following table presents a summary of the net cash flow activity for the years ended December 31, 2023 and 2022 (in thousands):

	<b>Year Ended December 31,</b>		
	<b>2023</b>	<b>2022</b>	<b>2021</b>
Net cash provided by (used in):			
Operating activities	\$ (130,364)	\$ (89,223)	\$ (68,101)
Investing activities	44,657	(235,416)	(4,923)
Financing activities	59,291	9,860	2,472
Net decrease in cash, cash equivalents and restricted cash	<u>\$ (26,416)</u>	<u>\$ (314,779)</u>	<u>\$ (70,552)</u>

### ***Operating Activities***

In the year ended December 31, 2023, net cash used in operating activities of \$130.4 million was attributable to a net loss of \$160.8 million, offset by non-cash charges of \$22.1 million and an increase in net operating assets and liabilities of \$8.3 million. Non-cash charges consisted primarily of stock-based compensation expense of \$26.3 million, non-cash lease costs of \$1.3 million, and depreciation and amortization costs of \$0.8 million offset by net amortization of premiums and accretion of discounts on investments of \$6.5 million. The change in operating assets and liabilities was primarily due to an increase in accounts payable and accrued expenses and other current liabilities of \$10.6 million primarily due to timing of invoices and payments and a decrease in other assets of \$1.4 million offset by an increase in prepaid and other current assets of \$1.3 million and a decrease in other non-current liabilities of \$2.4 million.

In the year ended December 31, 2022, net cash used in operating activities of \$89.2 million was attributable to a net loss of \$123.5 million, offset by non-cash charges of \$24.4 million and an increase in net operating assets and liabilities of \$9.9 million. Non-cash charges consisted primarily of stock-based compensation expense of \$23.8 million and non-cash lease costs of \$1.1 million. The change in operating assets and liabilities was primarily due to an increase in accounts payable and accrued expenses and other current

liabilities of \$11.6 million primarily due to timing of invoices and payments and a decrease in other assets of \$0.8 million offset by an increase in prepaid and other current assets of \$1.5 million and a decrease in other non-current liabilities of \$1.0 million.

### ***Investing Activities***

In the year ended December 31, 2023, net cash used in investing activities of \$44.7 million was attributable to purchases of short-term and long-term investments of \$246.6 million and purchases of property and equipment of \$1.3 million, offset by cash received for maturities of investments of \$292.6 million.

In the year ended December 31, 2022, net cash used in investing activities of \$235.4 million was attributable to purchases of short-term and long-term investments of \$376.8 million and purchases of property and equipment of \$1.4 million, offset by cash received for maturities of investments of \$142.8 million.

### ***Financing Activities***

In the year ended December 31, 2023, net cash provided by financing activities of \$59.3 million was attributable to proceeds from equity offerings, net of underwriter discounts and issuance costs, of \$58.9 million, proceeds from issuance of common stock pursuant to employee stock purchase plan of \$0.5 million, and proceeds from the exercise of stock options under equity incentive plans of \$0.3 million, offset by principal payments on finance leases of \$0.4 million.

In the year ended December 31, 2022, net cash provided by financing activities of \$9.9 million was attributable to proceeds from issuance of the term loan of \$10.0 million offset by payments for debt issuance costs of \$0.7 million, proceeds from the exercise of stock options under equity incentive plans of \$0.6 million, and proceeds from issuance of common stock pursuant to employee stock purchase plan of \$0.3 million, offset by principal payments on finance leases of \$0.4 million.

### **Off-Balance Sheet Arrangements**

During the period presented, we did not have, nor do we currently have, any off-balance sheet arrangements, as defined in the rules and regulations of the SEC.

### **Critical Accounting Estimates**

Our management's discussion and analysis of financial condition and results of operations is based on our financial statements, which have been prepared in accordance with generally accepted accounting principles in the United States, or U.S. GAAP. The preparation of these financial statements requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the financial statements, as well as the reported expenses during the reporting periods. These items are monitored and analyzed by us for changes in facts and circumstances, and material changes in these estimates could occur in the future. We base our estimates on historical experience and on various other factors that we believe are reasonable under the circumstances, the results of which form the basis for making judgments about the carrying value of assets and liabilities that are not readily apparent from other sources. Changes in estimates are reflected in reported results for the period in which they become known. Actual results may differ significantly from these estimates under different assumptions or conditions.

Our significant accounting policies are more fully described in the notes to our audited consolidated financial statements elsewhere in this Annual Report on Form 10-K. We believe that the following accounting policy reflects the most critical judgments and estimation uncertainty used in the preparation of our Consolidated Financial Results.

### ***Clinical and Contract Manufacturing Accruals***

We record accruals for estimated costs of research, preclinical studies and clinical trials, and manufacturing development, which are a significant component of research and development expenses. A substantial portion of our ongoing research and development activities are conducted by third-party service providers, including CROs and contract manufacturing organizations, or CMOs. Our contracts with CROs generally include pass-through fees such as regulatory expenses, investigator fees, travel costs and other miscellaneous costs, including shipping and printing fees. Similarly, our contracts with CMOs generally include pass-through fees such as raw materials and other miscellaneous costs, including shipping. The financial terms of these contracts are subject to negotiations, which vary from contract to contract and may result in payment flows that do not match the periods over which materials or services are provided to us under such contracts. We accrue the costs incurred under agreements with these third parties based on estimates of actual work completed but not yet invoiced in accordance with the respective agreements. We determine the estimated costs through discussions with internal personnel and external service providers as to the progress or stage of completion of the services and the agreed-upon fees to be paid for such services. To assist in our estimates, we rely upon the receipt of timely and accurate reporting from our clinical and non-clinical studies and other third-party vendors.

We make significant judgments and estimates in determining the accrual balance related to our CMOs at the end of each reporting period based on discussion with internal personnel who work directly and meet regularly with the CMOs. As actual costs become known, we adjust our accruals. Although we do not expect our estimates to be materially different from amounts actually incurred, our understanding of the status and timing of services performed relative to the actual status and timing of services performed may vary and could result in our reporting amounts that are too high or too low in any particular period. Through December 31, 2023, there have been no material differences from our accrued estimated expenses to the actual clinical trial and manufacturing development expenses. However, variations in the assumptions used to estimate accruals, including, but not limited to, the number of patients enrolled, the rate of patient enrollment, the actual services performed, and related costs may vary from our estimates, resulting in adjustments to clinical trial expense and manufacturing costs in future periods. Changes in these estimates that result in material changes to our accruals could materially affect our financial position and results of our operations.

### **Recent Accounting Pronouncements**

See “Note 2. Significant Accounting Policies” of the Notes to Consolidated Financial Statements in “Item 8. Financial Statements and Supplementary Data” for a full description of recent accounting pronouncements, including the respective expected dates of adoption and estimated effects, if any, on our consolidated financial statements.

### **Item 7A. Quantitative and Qualitative Disclosures About Market Risk.**

#### ***Interest Rate Risk***

We are exposed to market risks in the ordinary course of our business. These risks primarily include interest rate sensitivities.

As of December 31, 2023, we had cash, cash equivalents and investments of \$218.1 million. We generally hold our cash and cash equivalents in interest-bearing bank accounts and money market funds. We have invested primarily in U.S. Treasury securities, U.S. government agency securities, corporate debt securities, commercial paper and asset-backed securities and all our investments are classified as available-for-sale. Our primary exposure to market risk is interest rate sensitivity, which is affected by changes in the general level of U.S. interest rates. An immediate 100 basis point change in interest rates would not have a material effect on the fair market value of our cash, cash equivalents and investments.

As of December 31, 2023, we had borrowings of \$10.0 million outstanding under the Loan Agreement. Borrowings under the Loan Agreement bear interest at a floating rate per annum equal to the greater of (i) 1-month term SOFR, and (ii) 2.33%, plus 6.25%. An immediate 10% change in the 1-month term SOFR would not have a material impact on our debt-related obligations, financial position or results of operations.

#### ***Credit Risk***

Financial instruments that potentially subject the Company to concentration of credit risk consist of cash, cash equivalents and investments. The Company invests its cash equivalents in highly rated money market funds. The Company’s investments consist of debt securities issued by highly rated corporate entities, the U.S. federal government or state and local governments. The Company’s exposure to any individual corporate entity is limited by our investment policy. Deposits may exceed federally insured limits, and the Company is exposed to credit risk on deposits in the event of default by the financial institutions to the extent account balances exceed the amount insured by the Federal Deposit Insurance Corporation (FDIC).

The Company is closely monitoring ongoing events involving limited liquidity, defaults, non-performance or other adverse developments that affect financial institutions or other companies in the financial services industry or the financial services industry generally, including Silicon Valley Bank (SVB). In March 2023, SVB, where the Company maintained operating accounts with a cash balance of less than 1% of the Company’s total cash, cash equivalents and investments, was closed by the California Department of Financial Protection and Innovation, which appointed the FDIC to act as receiver. The FDIC created Silicon Valley Bridge Bank, N.A. (SVBB) as successor to SVB. First Citizens BancShares, Inc. (First Citizens Bank) acquired SVBB from the FDIC and assumed all of SVB’s deposits and loans. In light of the foregoing, the Company does not believe that it had exposure to loss as a result of SVB’s receivership.

During the periods presented, the Company has not experienced any realized losses on its deposits of cash, cash equivalents or investments.

#### ***Foreign Currency Risk***

Our expenses are generally denominated in U.S. dollars. However, we have entered into a limited number of contracts with vendors for services with payments denominated in foreign currencies, primarily the euro. We are subject to foreign currency transaction gains or losses on our contracts denominated in foreign currencies. To date, foreign currency transaction gains and losses have not been material to our consolidated financial statements, and we have not had a formal hedging program with respect to foreign currency. A 10.0% increase or decrease in current exchange rates would not have a material effect on our financial results.



**Item 8. Financial Statements and Supplementary Data.**

## INDEX TO FINANCIAL STATEMENTS

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## Report of Independent Registered Public Accounting Firm

To the Stockholders and the Board of Directors  
ALX Oncology Holdings Inc.:

### *Opinion on the Consolidated Financial Statements*

We have audited the accompanying consolidated balance sheets of ALX Oncology Holdings Inc. and subsidiaries (the Company) as of December 31, 2023 and December 31, 2022, the related consolidated statements of operations, comprehensive loss, stockholders' equity (deficit), and cash flows for each of the years in the three-year period ended December 31, 2023, and the related notes (collectively, the consolidated financial statements). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2023 and December 31, 2022, and the results of its operations and its cash flows for each of the years in the three-year period ended December 31, 2023, in conformity with U.S. generally accepted accounting principles.

### *Basis for Opinion*

These consolidated financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these consolidated financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. We believe that our audits provide a reasonable basis for our opinion.

### *Critical Audit Matter*

The critical audit matter communicated below is a matter arising from the current period audit of the consolidated financial statements that was communicated or required to be communicated to the audit committee and that: (1) relates to accounts or disclosures that are material to the consolidated financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of a critical audit matter does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

### *Assessment of contract manufacturing accruals*

As discussed in Notes 2 and 5 to the consolidated financial statements, the Company has contract manufacturing accruals of \$9,543 thousand. The Company accrues the costs incurred under agreements with contract manufacturing organizations (CMOs) based on estimates of actual work completed but not yet invoiced in accordance with the respective agreements. The Company determines the estimated costs incurred through discussions with internal personnel and external service providers as to the progress or stage of completion of the services and the agreed-upon fees to be paid for such services.

We identified the assessment of contract manufacturing accruals as a critical audit matter. Specifically, assessing the estimate of contract manufacturing activities completed but not yet invoiced required a higher degree of auditor judgment. Changes to the estimate of contract manufacturing activities completed but not yet invoiced could have had a significant impact on the contract manufacturing accrual recorded by the Company.

The following are the primary procedures we performed to address this critical audit matter. We assessed the Company's estimate of the related contract manufacturing activities completed but not yet invoiced for a sample of the Company's contract manufacturing accruals by: (1) inquiring of Company personnel responsible for overseeing the respective manufacturing activities to understand their progress; (2) inspecting correspondence received by the Company from CMOs, if any, and comparing the reported information to the

Company's estimate; and (3) inspecting the terms of the contract and any executed change orders and comparing them to the Company's contract manufacturing accruals.

/s/ KPMG LLP

We have served as the Company's auditor since 2016.

San Francisco, California

March 7, 2024

**ALX ONCOLOGY HOLDINGS INC.**  
**Consolidated Balance Sheets**  
(in thousands, except share and per share data)

	<b>December 31, 2023</b>	<b>December 31, 2022</b>
<b>Assets</b>		
Current assets:		
Cash and cash equivalents	\$ 22,406	\$ 48,822
Short-term investments	160,330	217,385
Prepaid expenses and other current assets	5,923	4,762
Total current assets	188,659	270,969
Property and equipment, net	3,589	3,889
Long-term investments	35,411	16,699
Other assets	14,894	14,932
Total assets	\$ 242,553	\$ 306,489
<b>Liabilities and stockholders' equity</b>		
Current liabilities:		
Accounts payable	\$ 8,591	\$ 8,073
Payable and accrued liabilities due to related party	543	1,650
Accrued expenses and other current liabilities	26,867	18,602
Total current liabilities	36,001	28,325
Term loan, non-current	9,639	9,389
Other non-current liabilities	7,201	5,311
Total liabilities	52,841	43,025
Commitments and contingencies (Note 13)		
Stockholders' equity		
Common stock, \$0.001 par value; 1,000,000,000 shares authorized as of December 31, 2023 and December 31, 2022; 49,951,989 and 40,861,386 shares issued and outstanding as of December 31, 2023 and December 31, 2022, respectively	50	41
Additional paid-in capital	675,678	589,735
Accumulated other comprehensive loss	256	(845)
Accumulated deficit	(486,272)	(325,467)
Total stockholders' equity	189,712	263,464
Total liabilities and stockholders' equity	\$ 242,553	\$ 306,489

The accompanying notes are an integral part of these consolidated financial statements.



**ALX ONCOLOGY HOLDINGS INC.**  
**Consolidated Statements of Operations**  
(in thousands, except share and per share amounts)

	<b>Year Ended</b>		
	<b>December 31,</b>		
	<b>2023</b>	<b>2022</b>	<b>2021</b>
Operating expenses:			
Research and development	\$ 141,795	\$ 98,400	60,170
General and administrative	28,483	29,036	23,385
Total operating expenses	<u>170,278</u>	<u>127,436</u>	<u>83,555</u>
Loss from operations	<u>(170,278)</u>	<u>(127,436)</u>	<u>(83,555)</u>
Interest income	10,649	4,278	91
Interest expense	(1,565)	(238)	(13)
Other income (expense), net	389	(22)	(7)
Loss before income taxes	<u>(160,805)</u>	<u>(123,418)</u>	<u>(83,484)</u>
Income tax (provision) benefit	—	(64)	21
Net loss	<u>\$ (160,805)</u>	<u>\$ (123,482)</u>	<u>\$ (83,463)</u>
Net loss per share, basic and diluted	<u>\$ (3.74)</u>	<u>\$ (3.03)</u>	<u>\$ (2.07)</u>
Weighted-average shares of common stock used to compute net loss per share, basic and diluted	<u>42,987,767</u>	<u>40,699,612</u>	<u>40,308,050</u>

The accompanying notes are an integral part of these consolidated financial statements.

**ALX ONCOLOGY HOLDINGS INC.**  
**Consolidated Statements of Comprehensive Loss**  
(in thousands)

	<b>Year Ended December 31,</b>		
	<b>2023</b>	<b>2022</b>	<b>2021</b>
Net loss	\$ (160,805)	\$ (123,482)	\$ (83,463)
Other comprehensive gain (loss), net of tax:			
Unrealized gain (loss) on available-for-sale investments	1,101	(845)	—
Total comprehensive loss	\$ (159,704)	\$ (124,327)	\$ (83,463)

The accompanying notes are an integral part of these consolidated financial statements.

**ALX ONCOLOGY HOLDINGS INC.**  
**Consolidated Statements of Stockholders' Equity (Deficit)**  
(in thousands, except share amounts)

	Common Stock	Additional Paid-In Capital	Accumulated Other Comprehensive Loss	Accumulated Deficit	Total Stockholders' Equity (Deficit)
	Shares	Amount	Amount	Amount	Amount
<b>Balance as of December 31, 2020</b>					
Issuance of common stock under equity incentive plans	39,844,522	\$ 734,922	\$ 548,327	\$ (118,522)	\$ 429,845
Issuance of common stock under employee stock purchase plan	1	7,623	2,550	—	2,551
Stock-based compensation	—	—	202	—	202
Net loss	—	—	13,914	—	13,914
<b>Balance as of December 31, 2021</b>	40,587,067	—	564,993	(83,463)	363,049
Issuance of common stock under equity incentive plans	—	225,612	567	—	567
Issuance of common stock under employee stock purchase plan	—	48,707	336	—	336
Stock-based compensation	—	—	23,839	—	23,839
Unrealized loss on available-for-sale investments	—	—	—	(845)	(845)
Net loss	—	—	—	(123,482)	(123,482)
<b>Balance as of December 31, 2022</b>	40,861,386	—	589,735	(325,467)	263,464
Issuance of common stock and pre-funded warrants in connection with equity offerings, net of underwriter discounts (\$3.8 million) and issuance costs (\$0.6 million)	8,663,793	—	58,878	—	58,887
Issuance of common stock under equity incentive plans	—	344,213	269	—	269
Issuance of common stock under employee stock purchase plan	—	82,597	523	—	523
Stock-based compensation	—	—	26,273	—	26,273
Unrealized gain on available-for-sale investments	—	—	—	1,101	1,101
Net loss	—	—	—	(160,805)	(160,805)
<b>Balance as of December 31, 2023</b>	49,951,989	—	675,678	(486,272)	189,712

The accompanying notes are an integral part of these consolidated financial statements.

**ALX ONCOLOGY HOLDINGS INC.**  
**Consolidated Statements of Cash Flows**  
(in thousands)

	Year Ended December 31,		
	2023	2022	2021
<b>Operating activities</b>			
Net loss	\$ (160,805)	\$ (123,482)	\$ (83,463)
Adjustments to reconcile net loss to net cash used in operating activities:			
Depreciation and amortization	836	342	51
Non-cash lease costs	1,272	1,124	685
Acquired in-process research and development	—	—	4,739
Stock-based compensation	26,273	23,839	13,914
Net amortization of premiums and accretion of discounts on investments	(6,487)	(940)	—
Accretion of term loan discount and issuance costs	250	44	—
Changes in operating assets and liabilities			
Prepaid expenses and other current assets	(1,291)	(1,476)	(1,662)
Other assets	1,366	750	(9,682)
Accounts payable	458	4,506	3,290
Payable and accrued liabilities due to related party	(1,107)	20	1,419
Accrued expenses and other current liabilities	11,224	7,027	3,306
Other non-current liabilities	(2,353)	(977)	(698)
Net cash used in operating activities	<u>(130,364)</u>	<u>(89,223)</u>	<u>(68,101)</u>
<b>Investing activities</b>			
Purchase of investments	(246,629)	(376,789)	—
Maturities of investments	292,560	142,800	—
Purchase of property and equipment	(1,274)	(1,427)	(666)
Acquisition of in-process research and development	—	—	(4,257)
Net cash provided by (used in) investing activities	<u>44,657</u>	<u>(235,416)</u>	<u>(4,923)</u>
<b>Financing activities</b>			
Proceeds from equity offerings, net of underwriter discounts (\$3.8 million) and issuance costs (\$0.6 million)	58,887	—	—
Proceeds from exercise of stock options under equity incentive plan	269	567	2,551
Proceeds from issuance of common stock under employee stock purchase plan	523	336	202
Principal payments on finance leases	(388)	(388)	(281)
Proceeds from issuance of term loan, net	—	10,000	—
Payments of debt issuance costs	—	(655)	—
Net cash provided by financing activities	<u>59,291</u>	<u>9,860</u>	<u>2,472</u>
Net decrease in cash, cash equivalents and restricted cash	<u>(26,416)</u>	<u>(314,779)</u>	<u>(70,552)</u>
Cash, cash equivalents and restricted cash at beginning of year	48,888	363,667	434,219
Cash, cash equivalents and restricted cash at end of period	<u>\$ 22,472</u>	<u>\$ 48,888</u>	<u>\$ 363,667</u>
<b>Supplemental disclosure</b>			
Cash paid for interest	\$ 1,177	\$ 103	\$ 11
Cash paid for taxes	\$ —	\$ —	\$ 274
<b>Supplemental disclosure of non-cash investing and financing activities</b>			
Purchase of property and equipment in accounts payable and accrued expenses	\$ 1,407	\$ 2,145	\$ 237
Acquisition of in-process research and development in accounts payable and accrued expenses	\$ —	\$ —	\$ 482
Right-of-use asset acquired under operating leases	\$ —	\$ 4,613	\$ 1,780
Right-of-use asset acquired under finance leases	\$ 2,600	\$ —	\$ 776
<b>Reconciliation of cash and cash equivalents and restricted cash:</b>			
Cash and cash equivalents	\$ 22,406	\$ 48,822	\$ 363,667
Restricted cash (included in other assets)	66	66	—
<b>Total cash and cash equivalents and restricted cash</b>	<u>\$ 22,472</u>	<u>\$ 48,888</u>	<u>\$ 363,667</u>

The accompanying notes are an integral part of these consolidated financial statements.

**ALX ONCOLOGY HOLDINGS INC.**  
**Notes to Consolidated Financial Statements**

**(1) ORGANIZATION**

*Organization*

ALX Oncology Holdings Inc., or the Company, was formed as a Delaware corporation on April 1, 2020, or Inception. The Company was formed for the purpose of completing the Company's initial public offering of its common stock and related transactions in order to carry on the business of ALX Oncology Limited. The Company is a clinical-stage immuno-oncology company focused on helping patients fight cancer by developing therapies that block the CD47 checkpoint pathway and bridge the innate and adaptive immune system.

ALX Oncology Holdings Inc. is incorporated in Delaware. ALX Oncology Limited, incorporated in Ireland, is a wholly-owned subsidiary of ALX Oncology Holdings Inc. ALX Oncology Inc., incorporated in Delaware, is a wholly-owned subsidiary of ALX Oncology Limited. Alexo International Holdings Limited, incorporated in Malta, is a wholly-owned subsidiary of ALX Oncology Inc. All the companies are collectively known as the Subsidiaries.

As of December 31, 2023, the Company has devoted substantially all of its efforts to the formation and financing of the Company, as well as product development, and has not realized product revenues from its planned principal operations. The Company does not have manufacturing facilities and all manufacturing related activities are contracted out to third-party service providers.

Management expects to incur additional losses in the future to conduct product candidate research and development and to conduct pre-commercialization activities and recognizes that the Company will likely raise additional capital to fully implement its business plan. The Company intends to raise such capital through the sale of additional equity, debt financings and/or strategic alliances with third parties. However, there can be no assurance that the Company will be successful in acquiring additional funding at levels sufficient to fund its operations or on terms acceptable to the Company. If the Company is unsuccessful in its efforts to raise additional financing, the Company could be required to significantly reduce operating expenses and delay, reduce the scope of or eliminate some of its development programs or its future commercialization efforts, out-license intellectual property rights to its product candidates and sell unsecured assets, or a combination of the above, any of which may have a material adverse effect on the Company's business, results of operations, financial condition and/or its ability to fund its scheduled obligations on a timely basis or at all. The Company believes that the existing capital resources will be sufficient to fund the projected operating requirements for at least the next twelve months.

**(2) SIGNIFICANT ACCOUNTING POLICIES**

*Basis of Preparation*

These consolidated financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America, or U.S. GAAP, and the applicable rules and regulations of the U.S. Securities and Exchange Commission, or SEC.

*Reclassifications*

Certain reclassifications have also been made within the consolidated statements of operations for the years ended December 31, 2022 and 2021 to conform to the current year presentation. For the year ended December 31, 2022, the Company reclassified approximately \$0.2 million out of other expense, net into a separate interest expense financial statement line item and renamed other expense, net to other income (expense), net. For the year ended December 31, 2021, the Company reclassified less than \$0.1 million out of other expense, net into a separate interest income financial statement line item and renamed other expense, net to other income (expense), net. Total loss before income taxes as of December 31, 2022 and 2021 did not change as a result of these reclassifications.

*Principles of Consolidation*

All intercompany balances and transactions have been eliminated in consolidation.



### ***Use of Estimates***

The preparation of the consolidated financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the consolidated financial statements and the reported amounts of revenues and expenses during the reporting periods. On an ongoing basis, management evaluates its estimates, including, but not limited to, those related to the estimated useful lives of long-lived assets, clinical and contract manufacturing accruals, fair value of assets and liabilities, fair value of investments, valuation of the Company's common stock in periods prior to its initial public offering and stock-based compensation. Management bases its estimates on historical experience and on various other market-specific and relevant assumptions that management believes to be reasonable under the circumstances. Actual results could differ from those estimates.

### ***Cash and Cash Equivalents***

The Company holds its cash and cash equivalents in checking and money market accounts. The Company considers all highly liquid investments with original maturities of three months or less from the date of purchase to be cash equivalents. Cash equivalents consist primarily of amounts invested in money market funds and U.S. government agency securities that are stated at cost, which approximate fair value.

### ***Investments***

Investments consist of money market funds, U.S. Treasury securities, U.S. government agency securities, corporate debt securities, commercial paper and asset-backed securities. The Company's investments are classified as available-for-sale and carried at estimated fair values and reported in cash equivalents, short-term investments and long-term investments. Management determines the appropriate classification of the investments at the time they are purchased and evaluates the appropriateness of such classifications at each balance sheet date. Investments with contractual maturities greater than 12 months are considered long-term investments. Management has elected to use transaction settlement date as the purchase date of investments.

The Company regularly reviews its investments for declines in estimated fair value below amortized cost. The factors considered in determining whether a credit loss exists include the creditworthiness of the security issuers, the number of investments in an unrealized loss position, the severity and duration of the unrealized losses, and whether it is more likely than not that the Company will be required to sell the investments before the recovery of their amortized cost basis. The cost of investments sold is based on the specific identification method. In circumstances when an unrealized loss is determined to be credit-related, or when the Company intends to sell or is more likely than not required to sell a security before it recovers its amortized cost basis, the difference between the fair value and the amortized cost of the security is recognized within other income (expense), net in the consolidated statements of operations, and an allowance for credit loss is recorded on the consolidated balance sheets. In circumstances when the decline in fair value is non-credit related, the difference is reported in accumulated other comprehensive loss, net of tax as a separate component of consolidated stockholders' equity.

### ***Concentration of Credit Risk, Credit Losses and Other Risks and Uncertainties***

Financial instruments that potentially subject the Company to a concentration of credit risk consist primarily of cash, cash equivalents, and investments. The primary objectives for the Company's investment portfolio are the preservation of capital and the maintenance of liquidity. The Company maintains deposits in federally insured financial institutions in excess of federally insured limits. The Company is exposed to credit risk in the event of default by the financial institutions holding its cash, cash equivalents and investments and issuers of investments. The Company manages its credit risk by holding its cash, cash equivalents and investments in large financial institutions within the U.S. In addition, the Company's investment policy limits investments to certain types of instruments such as money market funds, debt securities issued by the U.S. government and its agencies, corporate debt securities, commercial paper as well as asset-backed securities, and places restrictions on the credit ratings, maturities and concentration by type and issuer. The Company has not experienced any realized losses on its deposits of cash, cash equivalents and investments.

The Company's future results of operations involve a number of other risks and uncertainties. Factors that could affect the Company's future operating results and cause actual results to vary materially from expectations include, but are not limited to, uncertainty of results of clinical trials and reaching milestones, uncertainty of regulatory approval of the Company's potential product candidates, uncertainty of market acceptance of the Company's product candidates, competition from substitute products and larger companies, securing and protecting proprietary technology, strategic relationships and dependence on key individuals or sole-source suppliers.

The Company's product candidates require approvals from the U.S. Food and Drug Administration, or FDA, and comparable foreign regulatory agencies prior to commercial sales in their respective jurisdictions. There can be no assurance that any product candidates will receive the necessary approvals. If the Company was denied approval, approval was delayed or the Company was unable to maintain approval for any product candidate, it could have a materially adverse impact on the Company.

### ***Property and Equipment***

Property and equipment are stated at cost less accumulated depreciation. Depreciation of property and equipment is provided using the straight-line method over the estimated useful lives of the assets. Leasehold improvements are amortized on a straight-line basis over the shorter of the term of the lease, or the useful life of the assets. Upon sale or retirement of assets, the cost and related accumulated depreciation or amortization are removed from the consolidated balance sheets and the resulting gain or loss is reflected in the consolidated statements of operations. Maintenance and repairs are charged to the consolidated statements of operations as incurred.

### ***Leases***

On January 1, 2021, the Company adopted Accounting Standards Update No. 2016-02, Leases, Topic 842, or Accounting Standards Codification (ASC) 842, using the alternative modified transition method, which applies the standard as of the adoption date. Results and disclosure requirements for reporting periods beginning after January 1, 2021 are presented under ASC 842.

The Company determines if an arrangement contains a lease at inception. For arrangements where the Company is the lessee, leases are included in operating or finance lease right-of-use, or ROU, assets; current operating or finance lease liabilities; and non-current operating or finance lease liabilities.

Lease ROU assets and lease liabilities are recognized based on the present value of the future minimum lease payments over the lease term at the commencement date. ROU assets also include any initial direct costs incurred and any lease payments made on or before the lease commencement date, less lease incentives received. The Company uses its incremental borrowing rate based on the information available at the commencement date in determining the lease liabilities as the Company's leases generally do not provide an implicit rate. The incremental borrowing rate is reevaluated upon a lease modification. The Company considered information available at the adoption date of ASC 842 to determine the incremental borrowing rate for leases in existence as of this date. Lease terms may include options to extend or terminate the lease when the Company is reasonably certain that the option will be exercised. Lease expense for operating leases is recognized on a straight-line basis over the lease term. For finance leases, ROU assets are amortized on a straight-line basis over the shorter of the expected useful life or the lease term, and the carrying amount of the lease liability is adjusted to reflect interest, which is recorded in interest expense.

The Company elected to apply each of the practical expedients described in ASC 842 which allow companies (i) not to reassess prior conclusions on whether any expired or existing contracts are or contain a lease, lease classification, and initial direct costs, (ii) combine lease and non-lease components for all underlying assets groups, and (iii) not recognize ROU assets or lease liabilities for short term leases. A short-term lease is a lease that, at the commencement date, has a lease term of 12 months or less and does not include an option to purchase the underlying asset that the lessee is reasonably certain to exercise.

### ***Impairment of Long-Lived Assets***

The Company reviews long-lived assets for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset or asset group may not be recoverable. Recoverability is measured by comparison of the carrying amount to the future undiscounted net cash flows which the asset or asset group are expected to generate. If such assets are considered to be impaired, the impairment to be recognized is measured as the amount by which the carrying amount of the assets exceeds its fair value. Fair value is determined using various valuation techniques including discounted cash flow models, quoted market values and third-party independent appraisals, as considered necessary. The Company has not recorded impairment of any long-lived assets.

### ***Fair Value of Financial Instruments***

The fair value of the Company's financial assets and liabilities are determined in accordance with the fair value hierarchy established in ASC 820, Fair Value Measurements and Disclosures. ASC 820 defines fair value as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. The fair value hierarchy of ASC 820 requires an entity to maximize the use of observable inputs when measuring fair value and classifies those inputs into three levels:

Level 1—Observable inputs, such as quoted prices in active markets;

Level 2—Inputs, other than the quoted prices in active markets, which are observable either directly or indirectly such as quoted prices for similar assets or liabilities; quoted prices in markets that are not active; or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the instrument's anticipated life; and

Level 3—Unobservable inputs in which there is little or no market data, which require the reporting entity to develop its own assumptions.

Assets and liabilities measured at fair value are classified in their entirety based on the lowest level of input that is significant to the fair value measurement.

As of December 31, 2023 and 2022, the carrying amount of cash equivalents, accounts receivable, prepaid expenses and other current assets, accounts payable and accrued liabilities approximated their estimated fair value due to their relatively short maturities. The carrying amount of our non-current debt approximates fair value based on Level 2 inputs since the debt carries a variable interest rate that is tied to the current SOFR rate plus a spread.

The Company classifies money market funds and U.S. treasury securities as Level 1 within the fair value hierarchy as the fair value is based on quoted prices. The Company classifies its investments in U.S. government agency securities, corporate debt securities, commercial paper, and asset-backed securities as Level 2 within the fair value hierarchy as the fair value is estimated by third-party pricing sources using quoted prices for identical or similar instruments in markets that are not active and industry-standard model-based valuation techniques for which all significant inputs are observable in the market or can be corroborated by observable market data for substantially the full term of the assets. Where applicable, these models project future cash flows and discount the future amounts to a present value using market-based observable inputs obtained from various third-party data providers, including but not limited to benchmark yields, reported trades and broker/dealer quotes. Where applicable the market approach utilizes prices and information from market transactions for similar or identical assets.

### ***Issuance Costs***

Debt issuance costs consist of payments made to secure commitments under certain debt financing arrangements. These amounts are recognized as interest expense over the period of the financing arrangement using the effective interest method. If the financing arrangement is canceled or forfeited, or if the utility of the arrangement to the Company is otherwise compromised, these costs are recognized as interest expense immediately. The Company's consolidated financial statements present debt issuance costs related to a recognized debt liability as a direct reduction from the carrying amount of that debt liability.

Equity issuance costs consist of certain legal, professional accounting and third-party fees directly associated with in-process equity financings. These amounts are capitalized as deferred offering costs until such financings are consummated. After consummation of the equity financing, these costs are recorded in stockholders' equity (deficit) as a reduction of additional paid-in capital generated as a result of the equity financing. In the event an anticipated offering is terminated or significantly delayed, deferred offering costs will be immediately expensed as part of general and administrative expenses. As of December 31, 2023 and 2022, no deferred offering costs were included as prepaid expenses and other current assets on the consolidated balance sheets, and all offering costs were offset against offering proceeds and reclassified to additional paid-in capital on the consolidated balance sheets.

### ***Research and Development Costs***

Research and development costs are expensed as incurred and consist primarily of salaries and benefits, stock-based compensation expense, lab supplies and facility costs, as well as fees paid to nonemployees and external entities on behalf of the Company, such as consultants, central laboratories, contractors, collaborators, CMOs and CROs, in connection with our preclinical and clinical development activities and expenses incurred in connection with license agreements. Nonrefundable advance payments for goods or services to be received in the future for use in research and development activities are capitalized and recorded in prepaid expenses and other current assets, and then expensed as the related goods are delivered or the services are performed.

### ***Asset Acquisition including Acquired In-Process Research and Development Expenses***

When determining whether a transaction gives rise to an acquisition of a business or asset group, the Company applies a screening test to determine whether substantially all of the fair value of the gross assets acquired in the transaction is concentrated in a single identifiable asset or group of similar identifiable assets. If so, then the assets are not considered a business and the transaction is accounted for as an asset acquisition.

The Company measures and recognizes asset acquisitions that are not deemed to be business combinations based on the cost to acquire the asset or group of assets, which includes transaction costs. Goodwill is not recognized in asset acquisitions or transactions to license intellectual property. In an asset acquisition, the cost allocated to acquired in-process research and development (IPR&D) with no alternative future use is recognized as an expense on the acquisition date.

When a transaction is accounted for as an asset acquisition, an in-process research and development, or IPR&D asset is only capitalized if it has an alternative future use other than in a particular research and development project. Otherwise, amounts allocated to IPR&D that have no alternative use are expensed.

Upfront and milestone payments made related to an asset acquisition are accrued for and expensed when the achievement of the milestone is considered probable.

### ***Clinical and Contract Manufacturing Accruals***

The Company records accruals for estimated costs of research, preclinical studies and clinical trials, and manufacturing development, which are a significant component of research and development expenses. A substantial portion of the Company's ongoing research and development activities are conducted by third-party service providers, including contract research organizations, or CROs, and contract manufacturing organizations, or CMOs. The Company's contracts with CROs generally include pass-through fees such as regulatory expenses, investigator fees, travel costs and other miscellaneous costs, including shipping and printing fees. The financial terms of these contracts are subject to negotiations, which vary from contract to contract and may result in payment flows that do not match the periods over which materials or services are provided to the Company under such contracts. The Company accrues the costs incurred under agreements with these third parties based on estimates of actual work completed in accordance with the respective agreements. The Company determines the estimated costs through discussions with internal personnel and external service providers as to the progress or stage of completion of the services and the agreed-upon fees to be paid for such services. To assist in its estimates the Company relies upon the receipt of timely and accurate reporting from its clinical and non-clinical studies and other third-party vendors.

The Company makes significant judgments and estimates in determining the accrual balance at the end of each reporting period. As actual costs become known, the Company adjusts its accruals. Although the Company does not expect its estimates to be materially different from amounts actually incurred, the Company's understanding of the status and timing of services performed relative to the actual status and timing of services performed may vary and could result in the Company reporting amounts that are too high or too low in any particular period. Through December 31, 2023, there have been no material differences from the Company's accrued estimated expenses to the actual clinical trial expenses. However, variations in the assumptions used to estimate accruals, including, but not limited to, the number of patients enrolled, the rate of patient enrollment, the actual services performed, and related costs may vary from the Company's estimates, resulting in adjustments to clinical trial expense in future periods. Changes in these estimates that result in material changes to the Company's accruals could materially affect its financial position and results of operations.

### ***Stock-based Compensation Expense***

The Company incurs stock-based compensation expense primarily from stock options, restricted stock units, and ESPP purchase rights.

The Company estimates the fair value of stock options granted to employees, directors and non-employees and ESPP purchase rights using the Black-Scholes option-pricing model. The Black-Scholes model requires the input of subjective assumptions, including expected volatility, expected dividend yield, expected term, risk-free rate of return and the estimated fair value of the underlying common stock on the date of grant. Prior to the Company's initial public offering, the fair value of the common stock underlying the stock-based awards was determined on each grant date by the board of directors, with input from management, considering the most recently available third-party valuation of common shares. The grant-date fair value of restricted stock units is the fair value of the underlying stock on the award's grant date. The Company uses the straight-line method to allocate compensation expense to reporting periods over the requisite service period, which is generally the vesting period. The Company accounts for the effect of forfeitures as they occur.

### ***Segment Reporting***

The Company manages its operations as a single operating segment for the purposes of assessing performance and making operating decisions. All of the Company's long-lived assets are located in the United States.

### ***Foreign Currency Transactions***

The functional currency of the Company's operation and each of its subsidiaries is U.S. dollars. All assets and liabilities denominated in a foreign currency are translated into U.S. dollars at the exchange rate prevailing on the balance sheet date. Expenses are translated at the average exchange rates prevailing during the applicable period. Foreign currency transaction gains and losses are included in the consolidated statements of operations and recorded in other income (expense), net, and were immaterial for the years December 31, 2023, 2022 and 2021.

### ***Income Taxes***

The Company accounts for income taxes under the asset and liability method, which requires the recognition of deferred tax assets and liabilities for the expected future tax consequences of events that have been included in the consolidated financial statements. Under this method, deferred tax assets and liabilities are determined on the basis of the differences between the consolidated financial statement carrying amounts and tax bases of assets and liabilities using enacted tax rates in effect for the period in which the temporary differences are expected to reverse. The effect of a change in tax rates on deferred tax assets and liabilities is recognized in the consolidated statements of operations and comprehensive loss in the period that includes the enactment date.



Deferred income taxes comprise the impact of temporary differences between assets and liabilities recognized for financial reporting purposes and the amounts recognized for income tax reporting purposes, net operating loss carryforwards, and other tax credits measured by applying currently enacted tax laws. A valuation allowance is provided when necessary to reduce deferred tax assets to an amount that is more likely than not to be realized. If the Company determines that it would be able to realize its deferred tax assets in the future in excess of their net recorded amount, it would make an adjustment to the deferred tax asset valuation allowance, which would reduce the provision for income taxes. The Company recognizes benefits of uncertain tax positions if it is more likely than not that such positions will be sustained upon examination based solely on their technical merits, as the largest amount of benefit that is more likely than not to be realized upon the ultimate settlement. The Company's policy is to recognize interest and penalties related to the underpayment of income taxes as a component of income tax expense or benefit.

### ***Comprehensive Loss***

Comprehensive loss consists of net loss and changes in unrealized gains and losses on investments for all periods presented.

### ***Net Loss Per Share Attributable to Common Stockholders***

Basic net loss per share is calculated by dividing the net loss attributable to common stockholders by the weighted-average number of shares of common stock and pre-funded warrants outstanding during the period, without consideration for common stock equivalents. Shares of common stock into which the pre-funded warrants may be exercised are considered outstanding for the purposes of computing net loss per share because the shares may be issued for little or no consideration, are fully vested, and are exercisable after the original issuance date. Diluted net loss per share is the same as basic net loss per share, since the effects of potentially dilutive securities are antidilutive given the net loss for each period presented.

### ***Recent Accounting Pronouncements***

In August 2020, the FASB issued ASU 2020-06, Debt - Debt with Conversion and Other Options (Subtopic 470-20) and Derivatives and Hedging - Contracts in Entity's Own Equity (Subtopic 815-40) (ASU 2020-06). ASU 2020-06 eliminates the beneficial conversion and cash conversion accounting models for convertible instruments. It also amends the accounting for certain contracts in an entity's own equity that are currently accounted for as derivatives because of specific settlement provisions. The new guidance also modifies how particular convertible instruments and certain contracts that may be settled in cash or shares impact the diluted EPS computation. ASU 2020-06 is effective for annual periods beginning after December 15, 2023, including interim periods within those annual periods. Early adoption is permitted. ASU 2020-06 allows companies to adopt the guidance through either a modified retrospective method of transition or a fully retrospective method of transition. The Company is evaluating the impact of this guidance on its consolidated financial statements and related disclosures.

In November 2023, the FASB issued ASU 2023-07, Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures (ASU 2023-07). The amendments in ASU 2023-07 are intended to improve reportable segment disclosure, primarily through enhanced disclosures about significant segment expenses. ASU 2023-07 is effective for annual periods beginning after December 15, 2023, and interim periods beginning after December 15, 2024. The amendments in this ASU should be applied retrospectively to all prior periods presented in the financial statements. Early adoption is permitted. The Company is evaluating the impact of this guidance on its consolidated financial statements and related disclosures.

In December 2023, the FASB issued ASU 2023-09, Income Taxes (Topic 740): Improvements to Income Tax Disclosures (ASU 2023-09). ASU 2023-09 requires enhanced annual disclosures regarding the rate reconciliation and income taxes paid information. ASU 2023-09 is effective for annual periods beginning after December 15, 2024 and may be adopted on a prospective or retrospective basis. Early adoption is permitted. The Company is evaluating the impact of this guidance on its consolidated financial statements and related disclosures.

## **(3) ACQUISITION OF ASSETS AND OWNERSHIP**

On October 4, 2021, the Company entered into a stock purchase agreement with ScalmiBio, Inc., or ScalmiBio, as the Company expands its pipeline with plans to develop new anti-cancer drug candidates based on ScalmiBio's platform. Under the terms of the stock purchase agreement, the Company made an initial payment to the stockholders of ScalmiBio at closing on October 4, 2021 of approximately \$4.5 million in cash, net of certain expenses and adjustments, and made an additional payment of \$2.0 million at the one-year anniversary of the transaction on October 4, 2022 to the stockholders of ScalmiBio. This additional payment was recorded as research and development costs within the consolidated statements of operations and consolidated statements of comprehensive loss over the one-year period given the payment was contingent on the majority stockholder remaining employed with the Company through the one-year anniversary of the closing. In addition, the Company has agreed to pay up to \$35.0 million, in aggregate, in certain milestones based on the clinical development of the acquired ScalmiBio technology and has also agreed to pay a



low single digit royalty on net sales of any products developed from the ScalmiBio acquired technology for a defined term. The Company has the option to buy-out the royalty payment, prior to the first marketing approval of the developed product.

The Company's former Chief Executive Officer and current President and Chief Scientific Officer, who is also a director, was also a director of ScalmiBio prior to the acquisition, and owned 31.7% of ScalmiBio stock. As a result, he received or will receive a proportional share of the consideration to ScalmiBio stockholders as described above. He also received approximately \$87,000 out of the closing proceeds for the repayment of a note and accrued interest for a loan to ScalmiBio. Given his interest in the ScalmiBio acquisition, the Company's audit committee approved the acquisition under its related-party transaction policy and the Company's former Chief Executive Officer recused himself from the negotiation and approval of the transaction.

To determine the accounting for this transaction, an assessment was made as to whether an integrated set of assets and activities should be accounted for as a business combination or an asset acquisition. The guidance requires an initial screen test to determine if substantially all of the fair value of the gross assets acquired is concentrated in a single asset or group of similar assets. If that screen is met, the set is not considered a business. The Company concluded that substantially all of the fair value is concentrated in a group of similar identifiable assets. Pursuant to asset acquisition accounting, acquired IPR&D with no alternative future use is expensed at acquisition. Accordingly, \$4.7 million including \$0.2 million of legal and other professional fees related to the acquisition, was recognized in "Research and development" expenses in the consolidated statements of operations and consolidated statements of comprehensive loss for the year ended December 31, 2021.

#### (4) FAIR VALUE OF FINANCIAL INSTRUMENTS

The following table presents the Company's financial assets that are measured at fair value on a recurring basis by level within the fair value hierarchy as of December 31, 2023 and 2022 (in thousands):

	December 31, 2023				
	Fair Value Hierarchy Level	Amortized Cost	Unrealized Gains	Unrealized Losses	Fair Value
Cash equivalents					
Money market funds	Level 1	\$ 15,591	\$ —	\$ —	\$ 15,591
Corporate debt securities	Level 2	4,489	1	—	4,490
Short-term investments					
U.S. Treasury securities	Level 1	74,790	80	(20)	74,850
U.S. government agency securities	Level 2	28,215	—	(38)	28,177
Corporate debt securities	Level 2	21,881	24	(3)	21,902
Commercial paper	Level 2	34,967	22	(9)	34,980
Asset-backed securities	Level 2	423	—	(2)	421
Long-term investments					
U.S. Treasury securities	Level 1	14,737	75	—	14,812
U.S. government agency securities	Level 2	3,009	31	—	3,040
Corporate debt securities	Level 2	17,464	95	—	17,559
Total		<u>\$ 215,566</u>	<u>\$ 328</u>	<u>\$ (72)</u>	<u>\$ 215,822</u>

**December 31, 2022**

	<b>Fair Value Hierarchy Level</b>	<b>Amortized Cost</b>	<b>Unrealized Gains</b>	<b>Unrealized Losses</b>	<b>Fair Value</b>
Cash equivalents					
Money market funds	Level 1	\$ 36,690	\$ —	\$ —	\$ 36,690
U.S. government agency securities	Level 2	3,484	—	—	3,484
Short-term investments					
U.S. Treasury securities	Level 1	73,058	3	(438)	72,623
U.S. government agency securities	Level 2	16,227	36	—	16,263
Corporate debt securities	Level 2	56,318	—	(367)	55,951
Commercial paper	Level 2	62,087	—	—	62,087
Asset-backed securities	Level 2	10,512	—	(51)	10,461
Long-term investments					
U.S. Treasury securities	Level 1	5,242	2	—	5,244
U.S. government agency securities	Level 2	9,760	—	(15)	9,745
Asset-backed securities	Level 2	1,725	—	(15)	1,710
Total		<u>\$ 275,103</u>	<u>\$ 41</u>	<u>\$ (886)</u>	<u>\$ 274,258</u>

The Company did not have any outstanding financial liabilities to be re-measured on a recurring basis as of December 31, 2023 and 2022.

The fair value of cash equivalents and available-for-sale investments by classification included in the consolidated balance sheets was as follows as of December 31, 2023 and 2022 (in thousands):

	<b>December 31, 2023</b>	<b>December 31, 2022</b>
Cash and cash equivalents	\$ 20,081	\$ 40,174
Short-term investments	160,330	217,385
Long-term investments	35,411	16,699
Total	<u>\$ 215,822</u>	<u>\$ 274,258</u>

Cash and cash equivalents in the above table excludes bank account cash of \$2.3 million and \$8.6 million as of December 31, 2023 and 2022, respectively.

The fair value of cash equivalents and available-for-sale investments by contractual maturity was as follows as of December 31, 2023 and 2022 (in thousands):

	<b>December 31, 2023</b>	<b>December 31, 2022</b>
Maturing in one year or less	\$ 180,411	\$ 257,559
Maturing after one year through five years	35,411	16,699
Total	<u>\$ 215,822</u>	<u>\$ 274,258</u>

The primary objective of the Company's investment portfolio is to maintain safety of principal, prudent levels of liquidity and acceptable levels of risk. The Company's investment policy limits investments to certain types of instruments issued by institutions with investment-grade credit ratings, and it places restrictions on maturities and concentration by asset class and issuer.

There were no transfers of assets or liabilities between the fair value measurement levels during the years ended December 31, 2023 and 2022 and there were no financial instruments classified as Level 3 as of December 31, 2023 and 2022.

As of December 31, 2023 and 2022, accrued interest receivable related to the Company's investments of \$1.0 million and \$1.0 million, respectively, was included in prepaid expenses and other current assets as well as other assets on the consolidated balance sheets.

As of December 31, 2023, the unrealized losses for available-for-sale investments were non-credit related and the Company does not intend to sell the investments that were in an unrealized loss position, nor will it be required to sell those investments before recovery of their amortized costs basis, which may be maturity. As of December 31, 2023 and 2022, no allowance for credit losses for the Company's investments was recorded. As of December 31, 2023 and 2022, securities with a fair value of \$5.9 million and zero, respectively, were in a continuous net unrealized loss position for more than 12 months. As of December 31, 2023 and 2022, the Company has not recognized any impairment losses on available-for-sale investments.

## (5) BALANCE SHEET COMPONENTS

### *Property and Equipment, Net*

The following table presents the components of property and equipment, net as of December 31, 2023 and 2022 (in thousands):

	<b>December 31, 2023</b>	<b>December 31, 2022</b>
Leasehold improvements	\$ 2,513	\$ 2,360
Laboratory equipment	1,733	1,422
Computer hardware and software	414	344
Furniture and fixtures	166	166
Property and equipment, gross	4,826	4,292
Less: accumulated depreciation	(1,237)	(403)
Property and equipment, net	<u>\$ 3,589</u>	<u>\$ 3,889</u>

Depreciation was \$0.8 million, \$0.3 million, and nominal for years ended December 31, 2023, 2022 and 2021, respectively.

### *Other Assets*

The following table presents the components of other assets, net as of December 31, 2023 and 2022 (in thousands):

	<b>December 31, 2023</b>	<b>December 31, 2022</b>
Long-term prepaid clinical expenses	\$ 7,442	\$ 7,264
Operating lease right-of-use assets	4,847	5,626
Finance lease right-of-use assets	2,405	298
Long-term prepaid contract manufacturing costs	—	1,456
Other	200	288
Total other assets	<u>\$ 14,894</u>	<u>\$ 14,932</u>

### *Accrued Expenses and Other Current Liabilities*

The following table presents the components of accrued expenses and other current liabilities as of December 31, 2023 and 2022 (in thousands):

	<b>December 31, 2023</b>	<b>December 31, 2022</b>
Accrued contract manufacturing	\$ 9,543	\$ 5,249
Accrued clinical and nonclinical study costs	8,873	5,485
Accrued compensation and related expenses	6,067	3,708
Accrued property and equipment	179	2,110
Other	2,205	2,050
Total accrued expenses and other current liabilities	<u>\$ 26,867</u>	<u>\$ 18,602</u>

## (6) LEASES

In conjunction with the adoption of ASC 842 on January 1, 2021, the Company evaluated its vendor contracts to identify embedded leases, if any, and noted that a pharmaceutical support services agreement entered into in May 2016 included leases under ASC 842 because the Company has the right to direct the use of certain equipment. The embedded leases commenced in September 2020 and were set to expire in August 2023 with no stated option to extend the term. In May 2023, the Company entered into an addendum to extend the existing lease through May 2026 and lease additional number of certain equipment. In October 2023, the Company entered into an additional addendum to lease an additional number of certain equipment through May 2026. The Company classified the leases as finance leases.

In May 2021, the Company entered into a lease agreement for approximately 10,000 square feet of office space located in South San Francisco, California. The lease commenced on June 6, 2021 and expires on August 31, 2026. The lease does not provide an option to extend after it expires. The total lease payments for the life of the lease are approximately \$2.0 million. The Company classified the lease as an operating lease.

In February 2022, the Company entered into a lease agreement totaling approximately 11,074 square feet of office and laboratory space located in Palo Alto, California. The lease consists of two premises and expires in February 2030. The lease provides for an option to extend for two years after expiration. The lease for one of the premises commenced in February 2022 and the lease for the second premises commenced in April 2022. The lease provides for an annual base rent of approximately \$0.8 million, which increases on an annual basis by 3%. The total lease payments for the life of the lease are approximately \$6.9 million. The Company is also responsible for leasehold improvement costs related to the second premises, which totaled to \$2.3 million, of which \$1.5 million is to be paid with interest at a rate of 7% per annum as additional payments over the life of the lease. The Company classified the lease as an operating lease. Under the terms of the lease agreement, the Company issued a letter of credit to the landlord in the amount of \$0.1 million, which is collateralized by a restricted cash deposit of \$0.1 million (see Note 5 “Other Assets”).

As of December 31, 2023, the ROU assets recorded for operating leases and finance leases were \$4.8 million and \$2.4 million, respectively. As of December 31, 2022, the ROU assets recorded for operating leases and finance leases were \$5.6 million and \$0.3 million, respectively. The amounts were included in the other assets on the consolidated balance sheets.

The following table presents the maturities and balance sheet information of the Company’s operating and finance lease liabilities as of December 31, 2023 (in thousands, except lease term and discount rate):

	<b>December 31, 2023</b>	
	<b>Operating Leases</b>	<b>Finance Leases</b>
2024	\$ 1,267	\$ 1,056
2025	1,305	1,056
2026	1,187	440
2027	912	—
2028	939	—
Thereafter	1,130	—
Total lease payments	<u>6,740</u>	<u>2,552</u>
Less: imputed interest	<u>(1,482)</u>	<u>(252)</u>
Total lease liabilities	<u>\$ 5,258</u>	<u>\$ 2,300</u>
Lease liabilities: current <sup>(i)</sup>	\$ 847	\$ 728
Lease liabilities: non-current <sup>(ii)</sup>	4,411	1,572
Total lease liabilities	<u>\$ 5,258</u>	<u>\$ 2,300</u>
Weighted average remaining lease term (in years)	5.4	2.4
Weighted average discount rate	8.7%	8.5%

(i) Current lease liabilities are presented within accrued expenses and other current liabilities on the consolidated balance sheets.

(ii) Non-current lease liabilities are presented within other non-current liabilities on the consolidated balance sheets.

The following table presents the components of lease costs for the years ended December 31, 2023, 2022, and 2021 (in thousands):

	<b>Year Ended December 31,</b>		
	<b>2023</b>	<b>2022</b>	<b>2021</b>
Operating lease cost	\$ 1,263	\$ 1,159	\$ 360
Variable lease cost and other, net <sup>(i)</sup>	461	262	84
Short-term lease cost	17	88	—
Finance lease cost:			
Amortization of right-of-use assets	493	447	369
Interest	44	9	13
Total lease costs	<u>\$ 2,278</u>	<u>\$ 1,965</u>	<u>\$ 826</u>

(i) The variable lease cost and other, net is comprised primarily of common area maintenance charges for the operating lease, which are dependent on usage. These costs are classified as operating lease expense due to the election to not separate lease and non-lease components. These costs were not included within the measurement of the Company’s operating lease ROU assets and operating lease liabilities.

The following table presents the supplemental cash flow disclosures for cash paid for the years ended December 31, 2023, 2022, and 2021 (in thousands):

	<b>Year Ended December 31,</b>		
	<b>2023</b>	<b>2022</b>	<b>2021</b>
Cash paid for amounts included in the measurement of lease liabilities:			
Operating cash flows from operating leases	\$ 1,241	\$ 933	\$ 243
Operating cash flows from finance leases	\$ 20	\$ 8	\$ 11
Financing cash flows from finance leases	\$ 388	\$ 388	\$ 281
Right-of-use asset acquired under leases			
Operating leases	\$ —	\$ 4,613	\$ 1,780
Finance leases	\$ 2,600	\$ —	\$ 776

## (7) TERM LOAN

### *Oxford Finance and Silicon Valley Bank Loan*

In October 2022, the Company entered into a loan and security agreement, or the Loan Agreement, with Oxford Finance LLC, Oxford Finance Credit Fund II LP, and Silicon Valley Bank, or Lenders, for a secured term loan facility of up to \$100.0 million. Pursuant to the Loan Agreement, the Company drew an initial loan of \$10.0 million and has access to draw an additional \$40.0 million through the end of 2023. The Loan Agreement provides for an additional \$50.0 million over three tranches, with \$12.5 million available in each of two tranches based upon the achievement of milestones related to the development of evorpaccept and one preclinical product candidate, and \$25.0 million at the Lenders' sole discretion. The proceeds of the loans may be used by the Company for working capital and to fund its general business requirements.

Borrowings under the Loan Agreement bear interest at a floating rate per annum equal to the greater of (i) 1-month term Secured Overnight Financing Rate, or SOFR, and (ii) 2.33%, plus 6.25%. The minimum per annum interest rate is 8.58%. Interest on the term loans is payable monthly in arrears. The Company will begin to make principal payments in equal monthly installments beginning on December 1, 2025. However, if either of the milestone related tranche term loans are funded, then the Company will begin to make principal payments in equal monthly installments beginning on December 1, 2026. The term loans mature on October 1, 2027.

The term loans may be prepaid in full or in part, in increments of \$10.0 million, with various prepayment premiums. Upon the earlier prepayment or maturity of any term loan, the Company is required to pay a final payment fee of 6.0% of the original principal amount of such funded term loan. The final payment will be accreted to the final payment amount as interest expense using the effective interest method over the term of the loan through maturity date. The term loans once repaid or prepaid may not be reborrowed. The Company is also obligated to pay other customary fees for a loan facility of this size and type.

The term loans under the Loan Agreement are secured by substantially all of the Company's assets, except the Company's intellectual property, which is the subject of a negative pledge, and will be guaranteed by the Company's future subsidiaries, subject to certain limitations. Upon the outstanding balance of the term loans reaching \$75.0 million or greater, the Company's intellectual property will become collateral. The Company and its subsidiary, ALX Oncology Limited, have guaranteed the obligations under the Loan Agreement. The Loan Agreement contains customary affirmative and negative covenants, including covenants limiting the ability of the Company to, among other things, dispose of assets, effect certain mergers, incur debt, grant liens, pay dividends and distributions on its capital stock, make investments and acquisitions, and enter into transactions with affiliates, in each case subject to customary exceptions for a loan facility of this size and type.

The Loan Agreement contains customary events of default, which include, but are not limited to payment defaults, material misrepresentations, breaches of covenants, cross defaults with certain other material indebtedness, bankruptcy and insolvency events, and judgment defaults. The occurrence of an event of default could result in the acceleration of our obligations under the Loan Agreement, the termination of the Lenders' commitments, a 5.0% increase in the applicable rate of interest and the exercise by the Lender of other rights and remedies provided for under the Loan Agreement.

The Company received net proceeds from issuance of the term loan of \$9.3 million after deducting debt issuance costs of approximately \$0.7 million. Debt issuance costs were recorded as debt discount on the term loan, offsetting term loan, non-current on the consolidated balance sheets. The debt discount will be amortized over the term of the loan as interest expense using the effective interest method. During the years ended December 31, 2023 and 2022, interest expense incurred in connection with the Loan Agreement was \$1.1 million and \$0.2 million respectively. We had no outstanding debt and did not incur interest expense in 2021.



The Company determined that certain loan features were embedded derivatives requiring bifurcation and separate accounting. Those embedded derivatives were bundled together as a single, compound embedded derivative and then bifurcated and accounted for separately from the host contract. As of December 31, 2023, the value of the embedded derivative is not material, but could become material in future periods if an event of default became more probable than is currently estimated. As of December 31, 2023, we were in compliance with all financial reporting covenants under the Loan Agreement.

In March 2023, Silicon Valley Bank (SVB) was closed by the California Department of Financial Protection and Innovation, which appointed the Federal Deposit Insurance Corporation, or FDIC, to act as receiver. The FDIC created Silicon Valley Bridge Bank, N.A., or SVBB, as successor to SVB. First Citizens BancShares, Inc., or First Citizens Bank, acquired SVBB from the FDIC and operates SVBB as Silicon Valley Bank, a division of First Citizens Bank, or SVB-First Citizens. Under the Loan Agreement, 50% of the funding comes from SVB, one of the three Lenders. Given the SVBB acquisition by First Citizens Bank, SVB-First Citizens will continue to fulfill SVB's obligations under the Loan Agreement.

In May 2023, we entered into a second amendment to the Loan Agreement. The primary purpose of the second amendment was to reduce the percentage of the amount required to be held in our collateral account with SVB-First Citizens from 100% to not less than 50% of the aggregate dollar value of all our collateral accounts.

In December 2023, we entered into a third amendment to the Loan Agreement. The primary purpose of the third amendment was to (i) extend the draw period for the first tranche loans from December 31, 2023 to June 30, 2024, (ii) add as a condition for the funding of any first tranche loans after the effective date of the amendment, requirement that the Phase 2 portion of the ASPEN-06 study in gastric/GEJ cancer either remains ongoing or the achievement of a milestone related to the development of the ASPEN-06 study, and (iii) add a contingency fee in the amount of \$0.6 million to the Lenders if the Company prepays any of the loans under the Loan Agreement other than in connection with refinancing of the Loan Agreement with the Lenders and their affiliates.

As of December 31, 2023, the future maturities under the Loan Agreement are as follows (in thousands):

	<u>December 31, 2023</u>
2024	\$ —
2025	435
2026	5,217
2027	4,948
Total future maturities	<u>10,600</u>
Less: current portion of term loan	—
Total term loan, net of current portion	<u>10,600</u>
Less: unamortized debt issuance costs	(781)
Less: unaccreted final payment costs	(180)
Term loan, non-current, net	<u><u>\$ 9,639</u></u>

## **(8) STOCKHOLDERS' EQUITY**

On July 21, 2020, the Company's amended and restated certificate of incorporation became effective, authorizing 1,000,000,000 shares of common stock, \$0.001 par value per share, and 100,000,000 shares of undesignated preferred stock, \$0.001 par value per share. As of December 31, 2023 and 2022, the Company had 49,951,989 and 40,861,386 shares of common stock outstanding, respectively.

### ***Common Stock***

In July 2020, the Company consummated its initial public offering and issued 9,775,000 shares of common stock for net proceeds of approximately \$169.5 million, after deducting underwriting discounts and commissions of \$13.0 million and offering-related expenses of \$3.2 million. Upon the closing of the initial public offering, all shares of convertible preferred stock outstanding and accrued cumulative dividends were automatically converted into 23,934,533 shares of common stock.

In December 2020, the Company consummated its follow-on public offering and issued 2,737,000 shares of common stock for net proceeds of approximately \$194.9 million, after deducting underwriting discounts and commissions of \$12.5 million and offering-related expenses of \$0.7 million.

In October 2023, the Company completed an underwritten follow-on public offering and issued an aggregate of 8,663,793 shares of common stock, including the underwriters' exercise in full of their overallotment option of 1,293,103 shares of common stock, and, in lieu of common stock to certain investors, pre-funded warrants to purchase 1,250,000 shares of common stock at a public offering price of \$6.38 per share and \$6.379 per pre-funded warrant. Net proceeds were approximately \$58.9 million, after deducting underwriting discounts and commissions of \$3.8 million and offering-related expenses of \$0.6 million.

Common stock reserved for future issuance as of December 31, 2023 consists of the following:

	<u>December 31, 2023</u>
Stock options issued and outstanding	8,984,671
Stock options authorized for future issuance	1,305,386
Employee Stock Purchase Plan shares authorized for future issuance	1,065,389
Restricted stock issued and outstanding	949,669
Total	<u>12,305,115</u>

### ***At-the-Market Equity Offering***

In December 2021, the Company entered into a sales agreement with Cantor Fitzgerald & Co. and Credit Suisse Securities (USA) LLC (Sales Agreement), under which it may offer and sell shares of the Company's common stock, having aggregate gross proceeds of up to \$150.0 million, from time to time through them as the Company's sales agents in its at-the-market equity offering program (ATM Offering). In March 2022, the Company filed a Shelf Registration Statement with the SEC. In May 2022, the Company filed an amended Shelf Registration Statement, which was declared effective by the SEC on May 31, 2022. In August 2023, the Company entered into an amendment to the Sales Agreement to include UBS Securities LLC as an additional sales agent and to remove Credit Suisse as a sales agent. No securities have been sold under the ATM Offering as of December 31, 2023.

### ***Pre-Funded Warrants***

As part of the October 2023 underwritten public offering, the Company issued pre-funded warrants to certain investors to purchase 1,250,000 shares of common stock in an underwritten public offering at a public offering price of \$6.379 per pre-funded warrant. Each pre-funded warrant entitles the holder to purchase one share of common stock at an exercise price of \$0.001 per share.

The pre-funded warrants to purchase shares of common stock are exercisable at any time after their original issuance. However, the pre-funded warrants include a separate provision whereby the exercisability of the pre-funded warrants may be limited if, upon exercise, the warrant holder or any of its affiliates would beneficially own more than 9.99% of the Company's common stock. This threshold is subject to the warrant holder's rights under the pre-funded warrants to increase or decrease such percentage to any other percentage not in excess of 19.99% upon at least 61 days' prior notice from the warrant holder to the Company. The pre-funded warrants will expire on the date the warrants are exercised in full.

The pre-funded warrants were classified as equity and accounted for as a component of additional paid-in capital. The pre-funded warrants were classified as equity because they (i) are freestanding financial instruments that are legally detachable and separately exercisable from the equity instruments, (ii) are immediately exercisable, (iii) do not embody an obligation for the Company to repurchase its shares, (iv) permit the holders to receive a fixed number of shares of common stock upon exercise, (v) are indexed to the Company's common stock and (vi) meet the equity classification criteria. In addition, such pre-funded warrants do not provide any guarantee of value or return. The Company valued the pre-funded warrants at issuance, concluding that their offering price approximated their fair value, and allocated the aggregate net proceeds from the offering proportionately to the common stock and pre-funded warrants, including approximately \$7.4 million allocated to the pre-funded warrants and recorded as a component of additional paid-in capital on the consolidated balance sheets.

As of December 31, 2023, no shares underlying the pre-funded warrants had been exercised. All of the outstanding pre-funded warrants are included in the weighted-average number of shares of common stock used to calculate basic net loss per share attributable to common stockholders (see Note 12 "Net Loss Per Share Attributable to Common Stockholders").

### ***Dividends***

Prior to the Company's initial public offering, cumulative dividends of 6.0% per annum of the original issue price for each convertible preferred stock series were payable when and as declared by the Company's Board of Directors, or Board of Directors, upon the occurrence of a liquidation event or upon a contingent mandatory conversion of the convertible preferred stock in connection with a qualified initial public offering as described below. The Series A original issue price was \$6.58, and the Series B and Series C original issue price was \$9.4972. The original issue price was subject to adjustment in the event of any share dividend, share split, combination, consolidation or other recapitalization. The dividends accrued from day to day from the issue date of such preferred stock whether or not declared and were cumulative. In addition, the preferred stockholders participated on an as-converted basis in any dividends payable to common stockholders. As of July 20, 2020, there were approximately \$18.0 million of accrued cumulative dividends on the Series A, Series B and Series C convertible preferred stock, which became payable upon the consummation of the Company's initial public offering and automatically converted into 2,564,759 shares of the Company's common stock.

## (9) STOCK-BASED COMPENSATION

### *Equity Incentive Plans*

#### *2020 Equity Incentive Plan*

On April 1, 2020, the Board of Directors approved a new equity incentive plan, or the 2020 Equity Incentive Plan, that replaced the Company's existing equity compensation plan, 2015 Share Award Scheme. The 2020 Equity Incentive Plan permitted the issuance of up to 4,379,139 shares of the Company's common stock pursuant to awards granted under it, and authorized the award of stock options, restricted stock awards, stock appreciation rights and restricted stock units to employees, directors, and consultants.

#### *Amended and Restated 2020 Equity Incentive Plan*

In July 2020, the Company adopted the Amended and Restated 2020 Equity Incentive Plan, or the 2020 Plan. The 2020 Plan replaced the Company's 2020 Equity Incentive Plan and a total of 7,874,862 shares were reserved under the 2020 Plan. Unless the Board of Directors provides otherwise, beginning on January 1, 2021, the maximum number of shares which shall be made available for issuance under the 2020 Plan will automatically increase on the first day in January of each calendar year (i.e., the first day of our fiscal year) by an amount equal to the least of:

- 4,000,000 shares;
- four percent of the outstanding shares of our common stock on the last day of our immediately preceding fiscal year; or
- such number of shares as our board of directors may determine no later than the last day of our immediately preceding fiscal year.

The terms of the stock option agreements, including vesting requirements, are determined by the Board of Directors, subject to the provisions of the 2020 Plan. The term of the options generally expire, upon the earliest of (i) termination of continuous service for cause (ii) three months after the termination of continuous service for reasons other than cause, death or disability (iii) twelve months after the termination of continuous service due to disability (iv) eighteen months after the employee's death if the employee died during the period of continuous service (v) expiration date in the grant notice or (vi) the day before the tenth anniversary of the date of grant. The per share exercise price of the incentive stock options must equal at least the fair market value of a share underlying such options on the date of grant.

All awards that are canceled, forfeited or expired are returned to the 2020 Plan and are available for grant in conjunction with the issuance of new awards. Stock options granted are exercisable over a maximum term of 10 years from the date of grant and generally vest over an agreed service period, usually four years. Certain stock options granted under the 2020 Plan provide option holders the right to elect to exercise unvested options in exchange for common stock. Such unvested common stock is subject to a repurchase right held by the Company at the original issuance price in the event the optionee's service to the Company is terminated either voluntarily or involuntarily. The right lapses as the underlying repurchase right expires. These repurchase terms are considered to be a forfeiture provision. The cash received from employees for exercise of unvested options is treated as a refundable deposit and is classified as a liability on the consolidated balance sheets. At December 31, 2023, there was no such unvested early exercised options and related liability.

### *Shares Available for Grant*

The following table provides a summary of shares available for grant under the 2020 Plan:

	<b>Amended and Restated 2020 Equity Incentive Plan</b>
Shares available for grant at December 31, 2022	2,932,309
Authorized	1,634,456
Granted	(3,703,150)
Canceled/forfeited	441,771
Shares available for grant at December 31, 2023	<u>1,305,386</u>

### *Stock Option Modification*

There were no significant stock option modifications for the years ended December 31, 2023 and 2022.

### ***Employee Stock Purchase Plan***

In July 2020, the Board of Directors and stockholders approved the ALX Oncology Holdings Inc. 2020 Employee Stock Purchase Plan, or the ESPP. The ESPP allows eligible employees to have up to 15 percent of their eligible compensation withheld and used to purchase common stock, subject to a maximum of \$25,000 worth of stock purchased in a calendar year or no more than 3,000 shares in an offering period, whichever is less. An offering period consists of a six-month purchase period, with a look back feature to our stock price at the commencement of the offering period. Eligible employees can purchase the Company's common stock at the end of the offering period at 85% of the lower of the closing price of our common stock on The Nasdaq Global Select Market on the first and last day of the offering period.

The initial number of shares of common stock available for issuance under the ESPP was 400,000. Unless the Board of Directors provides otherwise, beginning on January 1, 2021, the maximum number of shares which shall be made available for sale under the ESPP will automatically increase on the first day in January of each calendar year (i.e., the first day of our fiscal year) during the term of the ESPP by an amount equal to the least of:

- 800,000 shares;
- one percent of the outstanding shares of our common stock on the last day of our immediately preceding fiscal year; or
- such number of shares as our board of directors may determine no later than the last day of our immediately preceding fiscal year.

Accordingly, on January 1, 2023 and 2022, the number of shares available under the ESPP was increased by zero and 405,871 shares respectively. As of December 31, 2023, 138,927 shares of common stock have been purchased under the ESPP, and the number of shares of common stock available for issuance under the ESPP was 1,065,389.

### ***Stock Option Activity***

The following table provides a summary of stock option activity under the 2020 Plan and related information:

	<b>Outstanding Options</b>			
	<b>Number of Options</b>	<b>Weighted Average Exercise Price</b>	<b>Weighted Average Remaining Contractual Life (Years)</b>	<b>Aggregate Intrinsic Value (in thousands)</b>
Outstanding at December 31, 2022	6,196,848	\$ 20.56	7.78	\$ 19,872
Granted	3,139,800	6.03		
Exercised	(54,359)	4.95		
Canceled/forfeited	(297,618)	25.00		
Outstanding at December 31, 2023	<u>8,984,671</u>	\$ 15.43	7.53	\$ 59,900
Exercisable at December 31, 2023	<u>4,704,798</u>	\$ 17.47	6.27	\$ 30,924

The aggregate intrinsic values represent the total pre-tax intrinsic value, of options outstanding and exercisable calculated as the difference between the exercise price of the options and the fair value of the Company's common stock as of December 31, 2023 and 2022. The total intrinsic value of options exercised during the years ended December 31, 2023, 2022 and 2021 were \$0.2 million, \$1.7 million and \$48.1 million, respectively.

### ***Stock Option Valuation Assumptions***

The Company uses the Black-Scholes option pricing model to determine the estimated fair value of stock options at the date of the grant, and stock-based compensation is adjusted for actual forfeitures as they occur. The fair value of each option grant during the years ended December 31, 2023, 2022 and 2021 was estimated with the following assumptions:

	<b>Year Ended December 31,</b>		
	<b>2023</b>	<b>2022</b>	<b>2021</b>
Expected term (in years)	5.3 - 6.1	5.3 - 6.1	5.3 - 6.1
Risk-free interest rate	3.5% - 4.7%	1.6% - 4.4%	0.8% - 1.4%
Expected dividend rate	-	-	-
Expected stock price volatility	83.6% - 88.6%	81.9% - 84.7%	79.7% - 86.9%

*Expected Term.* The expected term of the options represents the average period the stock options are expected to remain outstanding. As the Company does not have sufficient historical information to develop reasonable expectations about future exercise patterns and post-vesting employment termination behavior, the expected term of options granted is derived from the average midpoint between the weighted average vesting and the contractual term, also known as the simplified method.

*Risk-Free Interest Rate.* The risk-free interest rate is based on the yield of U.S. Treasury notes as of the grant date with terms commensurate with the expected term of the option.

*Dividend Yield.* The expected dividends assumption is based on the Company's expectation of not paying dividends in the foreseeable future.

*Volatility.* Since the Company does not have sufficient trading history for its common stock, the expected volatility is based on a combination of the historical volatilities of the common shares of comparable publicly traded companies as well as the historical volatilities of the Company's common shares. The Company selected companies with comparable characteristics, including enterprise value, risk profiles, position within the industry, and with historical share price information sufficient to meet the expected life of the Company's share-based awards.

*Fair Value.* Historically, for all periods prior to our initial public offering, the fair value of the shares of common stock underlying our stock option was determined by the Company's board of directors. Because there was no public market for the Company's common stock, the board of directors determined fair value of the common stock at the time of grant of the options by considering a number of objective and subjective factors including important developments in the Company's operations, valuations performed by an independent third party, sales of convertible preferred stock, actual operating results and financial performance, the conditions in the biotechnology industry and the economy in general, the stock price performance and volatility of comparable public companies, and the lack of liquidity of the Company's common stock, among other factors the board of directors deemed relevant to such determination. Since the completion of our initial public offering, the fair value of each share of common stock underlying stock option grants is based on the closing price of our common stock on the Nasdaq Global Select Market as reported on the date of grant.

### ***Restricted Stock Unit Activity***

The following table provides a summary of restricted stock unit activity under the 2020 Plan and related information:

	<b>Outstanding RSUs</b>			
	<b>Number of RSUs</b>	<b>Weighted-Average Grant Date Fair Value</b>	<b>Weighted Average Remaining Contractual Life (Years)</b>	<b>Aggregate Intrinsic Value (in thousands)</b>
Unvested as of December 31, 2022	820,326	\$ 14.13	1.68	\$ 9,245
Granted	563,350	5.86		
Vested	(289,854)	13.33		
Canceled/forfeited	(144,153)	12.48		
Unvested as of December 31, 2023	<u>949,669</u>	\$ 9.72	1.57	\$ 14,141

### ***Stock-based Compensation Expenses***

Stock options granted are measured based on the grant-date fair value estimated using the Black-Scholes option pricing model. The grant-date fair value of restricted stock units is the fair value of the underlying stock on the award's grant date. Compensation expense is recognized over the vesting period of the applicable awards on a straight-line basis. The weighted-average grant date fair value per share for stock options granted during the years ended December 31, 2023, 2022 and 2021 was \$4.44, \$7.88 and \$42.29, respectively. The weighted-average grant date fair value per share for restricted stock units granted during the years ended December 31, 2023, 2022 and 2021 was \$5.86, \$13.55 and \$58.56, respectively.

Stock-based compensation expense includes stock options and restricted stock units and has been reported in the Company's consolidated statements of operations as follows (in thousands):

	<b>Year Ended December 31,</b>		
	<b>2023</b>	<b>2022</b>	<b>2021</b>
Research and development	\$ 14,665	\$ 10,741	\$ 5,211
General and administrative	11,608	13,098	8,703
Total	<u>\$ 26,273</u>	<u>\$ 23,839</u>	<u>\$ 13,914</u>



As of December 31, 2023, there was unrecognized share-based compensation expense of \$38.9 million, related to unvested stock options which the Company expects to recognize over a weighted-average period of 2.9 years. There was unrecognized share-based compensation expense of \$8.2 million, related to unvested restricted stock units which the Company expects to recognize over a weighted-average period of 2.9 years.

#### (10) INCOME TAXES

The U.S. domestic and international components of pre-tax loss for the years ending December 31, 2023, 2022 and 2021 are as follows (in thousands):

	Year Ended December 31,		
	2023	2022	2021
United States	\$ (159,766)	\$ (111,360)	\$ (30,565)
International	(1,039)	(12,058)	(52,919)
Loss before income taxes	<u>\$ (160,805)</u>	<u>\$ (123,418)</u>	<u>\$ (83,484)</u>

The federal and state provision (benefit) for income taxes consist of the following (in thousands):

	Year Ended December 31,		
	2023	2022	2021
<b>Current provision for income taxes:</b>			
Federal	\$ —	\$ 64	\$ (21)
State	—	—	—
International	—	—	—
Total current	<u>—</u>	<u>64</u>	<u>(21)</u>
<b>Deferred tax provision:</b>			
Federal	—	—	—
State	—	—	—
International	—	—	—
Total deferred	<u>—</u>	<u>—</u>	<u>—</u>
Provision (benefit) for income taxes	<u>\$ —</u>	<u>\$ 64</u>	<u>\$ (21)</u>

Deferred income taxes reflect the net tax effects of (a) temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the amounts used for income tax purposes, and (b) operating losses and tax credit carryforwards.

A reconciliation of the U.S. federal statutory income tax rate to the effective tax for the years ended December 31, 2023, 2022 and 2021 are as follows (in thousands):

	Year Ended December 31,		
	2023	2022	2021
At federal statutory income tax rate	\$ (33,769)	\$ (25,918)	\$ (17,532)
State income taxes	(1,481)	(2,659)	(105)
Stock-based compensation	3,645	2,368	(4,031)
Research & development credits	(7,185)	(1,779)	(2,131)
Change in valuation allowance	64,486	9,067	11,476
Other	189	36	172
Foreign rate differential	(23)	18,949	11,032
Prior period true ups	—	—	1,098
Rate benefit of reorganization	(25,862)	—	—
Provision (benefit) for income taxes	<u>\$ —</u>	<u>\$ 64</u>	<u>\$ (21)</u>

The Company filed a change in tax status for ALX Oncology Limited in 2023. The reorganization resulted in an increase to capitalized R&D and other deferred tax assets, as well as a corresponding increase in valuation allowance.

Significant components of the Company's deferred tax assets as of December 31, 2023 and 2022 are as follows (in thousands):

	December 31,	
	2023	2022
<b>Deferred tax assets:</b>		
Loss carryforwards	\$ 26,517	\$ 16,319
Research & other credits	17,131	8,435
Other	8,076	14
Accrued expenses	1,014	1,860
Stock options	5,157	3,860
Lease liabilities	1,587	1,323
Capitalized R&D	38,425	1,702
Total deferred tax assets	<u>97,907</u>	<u>33,513</u>
<b>Deferred tax liabilities:</b>		
Fixed assets	96	215
Lease ROU assets	1,523	1,244
Prepaid expenses	—	252
Total deferred tax liabilities	<u>1,619</u>	<u>1,711</u>
Valuation allowance	<u>(96,288)</u>	<u>(31,802)</u>
Net deferred tax assets	<u>\$ —</u>	<u>\$ —</u>

ASC 740 requires that the tax benefit of net operating losses, temporary differences and credit carryforwards be recorded as an asset to the extent that management assesses that realization is "more likely than not." Realization of the future tax benefits is dependent on the Company's ability to generate sufficient taxable income within the carryforward period. Because of the Company's recent history of operating losses, management believes that recognition of the deferred tax assets arising from the above-mentioned future tax benefits is currently not likely to be realized and, accordingly, has provided a valuation allowance. The valuation allowance increased by approximately \$64.5 million and \$9.1 million for the years ended December 31, 2023 and 2022, respectively.

The Tax Cuts and Jobs Act eliminated the option to deduct research and development expenditures currently and requires taxpayers to capitalize and amortize them pursuant to Internal Revenue Code Section 174 beginning in 2022.

Net operating losses and tax credit carryforwards as of December 31, 2023 are as follows (in thousands):

	Amount	Expiration Years
Net operating losses, federal (post December 31, 2017)	\$ 93,542	Do Not Expire
Net operating losses, state	\$ 68,993	2038-2040
Tax credits, federal	\$ 14,431	2039-2043
Tax credits, state	\$ 5,918	N/A
Net operating losses, foreign	\$ 4,896	N/A

Utilization of the Company's U.S. net operating loss and credit carryforwards may be subject to substantial annual limitation due to the ownership change limitations provided by the Internal Revenue Code and similar state provisions. Such annual limitation could result in the expiration of the U.S. net operating loss and credit carryforwards before utilization. To date, the Company has not performed an analysis to determine whether there would be a substantial annual limitation due to a change in ownership.

### ***Unrecognized Tax Benefits***

The Company recognizes the tax benefit from uncertain tax positions if it is more likely than not that the tax positions will be sustained on examination by the tax authorities, based on the technical merits of the position. The tax benefit is measured based on the largest benefit that has a greater than 50% likelihood of being realized upon ultimate settlement. The Company recognizes interest and penalties related to unrecognized tax benefits in income tax expense. The Company files income tax returns in the U.S. federal and California jurisdiction, which is not currently under exam, and all years since inception are opened to examination.

The unrecognized tax benefits as of December 31, 2023, 2022 and 2021 were \$3.1 million, \$1.7 million and \$1.2 million, respectively. Future changes in the unrecognized tax benefits will not impact the effective tax rate due to the Company's full valuation allowance.

The Company has the following activity relating to unrecognized tax benefits (in thousands):

	Year Ended December 31,		
	2023	2022	2021
<b>Balance at beginning of year</b>	\$ 1,661	\$ 1,217	\$ 842
Additions/reversals based on tax positions of prior years	81	13	(69)
Additions based on tax positions related to the current year	1,409	443	494
Lapses in statutes of limitations	(31)	(12)	(50)
<b>Balance at end of year</b>	<u>\$ 3,120</u>	<u>\$ 1,661</u>	<u>\$ 1,217</u>

Although it is reasonably possible that certain unrecognized tax benefits may increase or decrease within the next 12 months due to tax examination changes, settlement activities, expirations of statute of limitations or the impact on recognition and measurement considerations related to the results of published tax cases or other similar activities, the Company does not anticipate any significant changes to unrecognized tax benefits over the next 12 months. During the years ended December 31, 2023, 2022 and 2021, no significant interest or penalties were required to be recognized relating to unrecognized tax benefits.

## (11) RELATED-PARTY TRANSACTIONS

### *Tallac Service Agreement*

The Company entered into a research and development services agreement, or the Tallac Services Agreement, with Tallac Therapeutics, Inc., or Tallac, effective as of July 1, 2020. The Tallac Services Agreement provides that Tallac will provide certain preclinical research services to the Company for a service fee based on the costs incurred by Tallac plus a mark-up equal to 10.0% of such costs. The Tallac Services Agreement has an initial term of four years and is renewed automatically for additional one year terms thereafter. The Company records the payments for the research and development services as research and development, or R&D, costs within the consolidated statements of operations. For the years ended December 31, 2023, 2022 and 2021, the Company recorded \$0.3 million, \$0.6 million and \$0.8 million, respectively, as R&D costs in relation to the Tallac Services Agreement.

### *Tallac Collaboration Agreement*

On March 4, 2021, the Company entered into a Collaboration Agreement with Tallac, or the Tallac Collaboration Agreement, to jointly develop, manufacture, and commercialize a novel class of cancer immunotherapy. The collaboration builds on the Company's expertise in developing therapies that block the CD47 checkpoint pathway and expands its immuno-oncology pipeline. The companies will leverage their respective scientific and technical expertise to advance an anti-SIRP $\alpha$  antibody conjugated to a Toll-like receptor 9, or TLR9, agonist for targeted activation of both the innate and adaptive immune systems. The key economic components of the collaboration transaction include that both parties will share equally (a) in the cost and expenses of research and development and (b) any profit or loss.

The Company accounts for R&D costs in accordance with ASC 730, Research and Development, which states R&D costs must be charged to expense as incurred. Accordingly, the Company records its internal and third-party costs associated with the collaboration as R&D expenses as incurred. When the Company is entitled to reimbursement of the R&D expenses that it incurs under the collaboration, the Company records those reimbursable amounts as a reduction to R&D expenses. The Company also records as R&D expenses, the portion of Tallac's expenses that the Company is obligated to reimburse, in the period when Tallac incurs such expenses. During the years ended December 31, 2023, 2022 and 2021, the Company recorded \$1.7 million, \$7.8 million and \$2.8 million, respectively, as R&D costs in relation to the Tallac Collaboration Agreement.

The Tallac Collaboration Agreement includes the right to set off clause, as such, the Company records the amount due to or reimbursable from Tallac on a net basis. As of December 31, 2023 and 2022, the Company had accrued expenses of \$0.5 million and \$1.6 million, respectively, related to the Tallac Collaboration Agreement which was presented within the payable and accrued liabilities due to related party on the consolidated balance sheets.

### *Acquisition of assets and ownership of ScalmiBio*

On October 4, 2021, the Company entered into a stock purchase agreement with ScalmiBio. The Company's former Chief Executive Officer and current Chief Scientific Officer and President, who is also a director, was also a director of ScalmiBio prior to the acquisition, and owned 31.7% of ScalmiBio stock. Refer to Note 3 "Acquisition of assets and ownership" for additional discussion.

On October 4, 2022, the Company made a \$2.0 million payment to stockholders of ScalmiBio at the one-year anniversary of the transaction to stockholders of ScalmiBio, including 31.7%, or \$0.6 million, to the Company's former Chief Executive Officer and current Chief Scientific Officer and President. This payment was recorded as R&D costs within the consolidated statements of operations over the one-year period.

## (12) NET LOSS PER SHARE ATTRIBUTABLE TO COMMON STOCKHOLDERS

The following table sets forth the computation of the basic and diluted net loss per share attributable to common stockholders (in thousands, except share and per share data):

	Year Ended December 31,		
	2023	2022	2021
Numerator:			
Net loss	\$ (160,805)	\$ (123,482)	\$ (83,463)
Denominator:			
Weighted-average shares of common stock outstanding, basic and diluted	42,987,767	40,699,612	40,308,050
Net loss per share, basic and diluted	<u>\$ (3.74)</u>	<u>\$ (3.03)</u>	<u>\$ (2.07)</u>

Since the Company was in a loss position for all periods presented, basic net loss per share is the same as diluted net loss per share for all periods presented as the inclusion of all potential common stock outstanding would have been anti-dilutive.

The following outstanding potentially dilutive securities were excluded from the computation of diluted net loss per share for the years ended December 31, 2023, 2022 and 2021, because including them would have been anti-dilutive:

	Year Ended December 31,		
	2023	2022	2021
Stock options issued and outstanding	8,984,671	6,196,848	5,128,639
Restricted stock issued and outstanding	949,669	820,326	15,075
Employee Stock Purchase Plan estimated shares issuable	—	—	—
Total	<u>9,934,340</u>	<u>7,017,174</u>	<u>5,143,714</u>

## (13) COMMITMENTS AND CONTINGENCIES

### *Guarantees and Indemnifications*

In the normal course of business, the Company enters into contracts and agreements that contain a variety of representations and warranties and provide for general indemnifications. The Company's exposure under these agreements is unknown because it involves claims that may be made against the Company in the future but have not yet been made. To date, the Company has not paid any claims or been required to defend any action related to its indemnification obligations. However, the Company may record charges in the future as a result of these indemnification obligations. The Company also has indemnification obligations to its officers and directors for specified events or occurrences, subject to some limits, while they are serving at the Company's request in such capacities. There have been no claims to date and the Company has director and officer insurance that may enable the Company to recover a portion of any amounts paid for future potential claims. The Company believes the fair value of these indemnification agreements is minimal. Accordingly, the Company has not recorded any liabilities for these agreements as of December 31, 2023.

### *Contingencies*

From time to time, the Company may be a party to various claims in the normal course of business. Legal fees and other costs associated with such actions will be expensed as incurred. The Company will assess, in conjunction with its legal counsel, the need to record a liability for litigation and contingencies. Reserve estimates will be recorded when and if it is determined that a loss related matter is both probable and reasonably estimable. For the years ended December 31, 2023, 2022 and 2021, the Company had no pending or threatened litigation.

### ***License Agreements***

In March 2015, the Company entered into a license agreement, or the Stanford Agreement, with the Board of Trustees of the Leland Stanford Junior University, or Stanford, under which the Company obtained a worldwide, royalty-bearing, sublicensable license under certain patents relating to the Company's current product candidates, to develop, manufacture and commercialize products for use in certain licensed fields, the scope of which would include the application of the licensed intellectual property in oncology. The Company paid Stanford a nonrefundable license royalty and reimbursed Stanford for past patent expenses, together totaling less than \$0.1 million, and granted Stanford a specified number of shares of common stock of the Company. The Company is required to make milestone payments up to an aggregate of \$5.0 million in respect of a specified number of licensed products that successfully satisfy certain clinical and regulatory milestones. The Company recorded the first milestone payment of \$0.2 million during the year ended December 31, 2021. There was no milestone payment recorded for the year ended December 31, 2023.

In June 2016, the Company entered into a license agreement with Selexis SA, or Selexis, under which the Company obtained a worldwide, royalty-bearing, sublicensable license under certain patents, know-how and other intellectual property, to use Selexis generated cell lines to manufacture evorpacept, and to make, use and sell licensed product containing such compound in all fields of use. The Company paid Selexis a nominal one-time fee and will pay Selexis an annual maintenance fee. The Company also agreed to pay Selexis milestone payments up to an aggregate of 1.2 million Swiss Francs in respect of all licensed products developed and/or commercialized under the grant that successfully satisfies certain milestone events. The Company recorded a milestone payment of \$0.1 million during the year ended December 31, 2021. There was no milestone payment recorded for the year ended December 31, 2023.

In March 2017, the Company entered into an agreement with Crystal Bioscience Inc. (now a subsidiary of Ligand Pharmaceuticals Incorporated), or Crystal, under which the Company obtained an assignment of certain patents, covering certain SIRP $\alpha$  antibodies. Under this agreement, the Company also received a worldwide, royalty-bearing non-exclusive license, with the right to grant sublicenses through multiple tiers of sublicenses, under certain of Crystal's background patents and know-how necessary to commercialize the rights under the assigned patents. The Company agreed to pay Crystal milestone payments up to \$11.1 million in respect of all licensed products developed under the assigned patents, that successfully satisfy certain clinical and regulatory milestones, each milestone being paid only once for all products. The Company recorded the first milestone payment of \$0.3 million during the year ended December 31, 2022. There was no milestone payment recorded for the year ended December 31, 2023.

### ***Other Contractual Obligations and Other Commitments***

We have other contractual obligations and other commitments from manufacturing and service contracts, which are presented as follows as of December 31, 2023 (in thousands):

	<b>December 31, 2023</b>				
	<b>Total</b>	<b>2024</b>	<b>2025-2026</b>	<b>2027-2028</b>	<b>Thereafter</b>
Manufacturing and service contracts	\$ 6,736	\$ 6,535	\$ 201		\$ —
Total	<u>\$ 6,736</u>	<u>\$ 6,535</u>	<u>\$ 201</u>	<u>\$ —</u>	<u>\$ —</u>

In November 2015, the Company entered into a Master Service Agreement, or the MSA, with KBI Biopharma, Inc. relating to formulation development, process development and current good manufacturing practices, or cGMP, manufacturing of evorpacept for use in clinical trials on a project basis. The MSA had an initial term of three years with successive one-year renewal periods, which was extended an additional eight years until November 2026, is cancellable upon notice and is non-exclusive. Statements of work under the MSA commit the Company to certain future purchase obligations of approximately \$1.8 million. In addition, the Company has commitments with two other pharmaceutical contract manufacturers, including certain future purchase obligations of approximately \$4.9 million. These amounts are based on non-cancellable commitments and forecasts that include estimates of future market demand, quantity discounts and manufacturing efficiencies that may impact timing of purchase.

The Company enters into contracts in the normal course of business with various third parties for clinical trials, preclinical research studies and testing, manufacturing and other services and products for operating purposes. These contracts generally provide for termination upon notice. Payments due upon cancellation consist only of payments for services provided or expenses incurred, including non-cancellable obligations of our service providers, up to the date of cancellation.

### **(14) SUBSEQUENT EVENTS**

In preparing the consolidated financial statements as of December 31, 2023, the Company evaluated subsequent events for recognition and measurement purposes through the filing date of this Annual Report on Form 10-K. The Company concluded that no events or transactions have occurred that require disclosure in the accompanying consolidated financial statements.



## **Item 9. Changes in and Disagreements With Accountants on Accounting and Financial Disclosure.**

None.

## **Item 9A. Controls and Procedures.**

### **Evaluation of Disclosure Controls and Procedures**

We carried out an evaluation, under the supervision and with the participation of our management, including our Chief Executive Officer and our Chief Financial Officer, of the effectiveness of our “disclosure controls and procedures” as of the end of the period covered by this report, pursuant to Rules 13a-15(e) and 15d-15(e) under the Exchange Act.

In connection with that evaluation, our Chief Executive Officer and our Chief Financial Officer concluded that our disclosure controls and procedures were effective and designed to provide reasonable assurance that the information required to be disclosed is recorded, processed, summarized and reported within the time periods specified in the SEC’s rules and forms as of December 31, 2023. For the purpose of this evaluation, disclosure controls and procedures means controls and procedures designed to ensure that information required to be disclosed by us in the reports that we file or submit is recorded, processed, summarized and reported within the time periods specified in the SEC’s rules and forms. These disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by us in the reports that we file or submit is accumulated and communicated to management, including our Principal Executive Officer, Principal Financial Officer and Principal Accounting Officer, as appropriate to allow timely decisions regarding required disclosure.

### **Limitations on the Effectiveness of Controls**

A control system, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. Because of inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues, if any, within an organization have been detected. Accordingly, our disclosure controls and procedures are designed to provide reasonable, not absolute, assurance that the objectives of our disclosure control system are met. Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

### **Management’s Report on Internal Control over Financial Reporting**

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Exchange Act Rules 13a-15(f) and 15(d)-15(f). Our internal control over financial reporting is a process designed under the supervision of our principal executive and principal financial officers to provide reasonable assurance regarding the reliability of financial reporting and the preparation of our financial statements for external reporting purposes in accordance with U.S. generally accepted accounting principles.

As of the end of our 2023 fiscal year, management conducted an assessment of the effectiveness of our internal control over financial reporting based on the framework established in the original Internal Control – Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) (COSO). Based on this assessment, management has determined that our internal control over financial reporting as of December 31, 2023 was effective.

### **Changes in Internal Control over Financial Reporting**

There were no changes in our internal control over financial reporting during the quarter ended December 31, 2023 that materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

## **Item 9B. Other Information.**

During our last fiscal quarter, the following director and officer, as defined in Rule 16a-1(f), adopted a “Rule 10b5-1 trading arrangement” as defined in Regulation S-K Item 408, as follows:

On October 12, 2023, Rekha Hemrajani, a member of the Board of Directors, adopted a Rule 10b5-1 trading arrangement providing for the sale from time to time of an aggregate of up to 50,000 shares of our common stock. The trading arrangement was intended to satisfy the affirmative defense in Rule 10b5-1(c). The duration of the trading arrangement is until February 11, 2025, or earlier if all transactions under the trading arrangement are completed.

On December 6, 2023, Jaume Pons, our President, Chief Scientific Officer and a member of the Board of Directors, adopted a Rule 10b5-1 trading arrangement providing for the sale from time to time of an aggregate of up to 351,198 shares of our common stock. The trading arrangement was intended to satisfy the affirmative defense in Rule 10b5-1(c). The duration of the trading arrangement is until April 3, 2026, or earlier if all transactions under the trading arrangement are completed.

No other officers or directors, as defined in Rule 16a-1(f), adopted and/or terminated a “Rule 10b5-1 trading arrangement” or a “non-Rule 10b5-1 trading arrangement,” as defined in Regulation S-K Item 408, during the last fiscal quarter.

**Item 9C. Disclosure Regarding Foreign Jurisdictions that Prevent Inspections.**

Not Applicable.

### **PART III**

Certain information required by Part III is omitted from this Annual Report on Form 10-K and is incorporated herein by reference to our definitive Proxy Statement for our next Annual Meeting of Stockholders (the “Proxy Statement”), which we intend to file pursuant to Regulation 14A of the Securities Exchange Act of 1934, as amended, within 120 days after December 31, 2023.

#### **Item 10. Directors, Executive Officers and Corporate Governance.**

The information required by this Item concerning our directors, executive officers, corporate governance, Section 16 reporting compliance and code of business conduct and ethics is incorporated by reference to the Proxy Statement.

#### **Item 11. Executive Compensation.**

The information required by this Item regarding executive compensation is incorporated by reference to the Proxy Statement.

#### **Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters.**

The information required by this Item regarding security ownership of certain beneficial owners and management and related stockholder matters is incorporated by reference to the Proxy Statement.

#### **Item 13. Certain Relationships and Related Transactions, and Director Independence.**

The information required by this Item regarding certain relationships and related party transactions and director independence is incorporated by reference to the Proxy Statement.

#### **Item 14. Principal Accounting Fees and Services.**

Our independent registered public accounting firm is KPMG LLP, Auditor Firm ID: 185.

The information required by this Item regarding principal accountant fees and services is incorporated by reference to the Proxy Statement.

## PART IV

### Item 15. Exhibits, Financial Statement Schedules.

(a) The following documents are filed as part of this Annual Report on Form 10-K:

(1) Financial Statements

The financial statements filed as part of this Annual Report on Form 10-K are listed in the “Index to Financial Statements” under Part II, Item 8 of this Annual Report on Form 10-K.

(2) Financial Statement Schedules

Financial statement schedules have been omitted as the information required is not applicable or the information is presented in the financial statements or related notes included in Part II, Item 8 of this Annual Report on Form 10-K.

(3) Exhibits

The exhibits listed below are filed as part of this Annual Report on Form 10-K, or are incorporated herein by reference, in each case as indicated below.

#### Exhibit Index

NUMBER	EXHIBIT TITLE	INCORPORATED BY REFERENCE				FILED HEREWITH
		FORM	FILE NO.	EXHIBIT	FILING DATE	
3.1	Amended and Restated Certificate of Incorporation of the Registrant.	8-K	001-39386	3.1	July 21, 2020	
3.2	Amended and Restated Bylaws of the Registrant.	8-K	001-39386	3.1	June 20, 2023	
4.1	Amended and Restated Investors’ Rights Agreement among the Registrant and certain of its stockholders, dated April 1, 2020.	S-1	333-239490	4.1	June 26, 2020	
4.2	Specimen common stock certificate of the Registrant.	S-1	333-239490	4.2	June 26, 2020	
4.3	Description of Securities.					X
4.4	Form of Pre-Funded Warrant.	8-K	001-39386	4.1	October 6, 2023	
10.1#	Loan and Security Agreement, dated as of October 27, 2022, among Oxford Finance LLC, as collateral agent, the lenders from time to time party thereto, ALX Oncology Inc., Alexo Therapeutics International, and Sirpant Therapeutics, each as a borrower, and ALX Oncology Holdings Inc., as guarantor.	8-K	001-39386	10.1	October 31, 2022	
10.1.1	Consent and First Amendment to Loan and Security Agreement, dated as of December 22, 2022.	10-K	001-39386	10.1.1	March 9, 2023	
10.1.2#	Second Amendment to Loan and Security Agreement, dated as of May 31, 2023.	10-Q	001-39386	10.1	August 10, 2023	
10.1.3	Third Amendment to Loan and Security Agreement, dated as of December 22, 2023, among Oxford Finance LLC, as collateral agent, the lenders party thereto, ALX Oncology Inc., as borrower, and ALX Oncology Holdings Inc., as guarantor.	8-K	001-39386	10.1	December 26, 2023	

NUMBER	EXHIBIT TITLE	INCORPORATED BY REFERENCE				FILED HEREWITH
		FORM	FILE NO.	EXHIBIT	FILING DATE	
10.2	Sales Agreement, dated December 17, 2021, by and among ALX Oncology Holdings Inc., Cantor Fitzgerald & Co., and Credit Suisse Securities (USA) LLC.	8-K	001-39386	1.1	December 17, 2021	
10.2.1#	Amendment No. 1 to the Sales Agreement with Cantor and Credit Suisse, dated August 25, 2023.	10-Q	001-39386	10.1	November 13, 2023	
10.3+	Form of Indemnification Agreement between the Registrant and each of its directors and executive officers.	S-1	333-239490	10.1	June 26, 2020	
10.4+	Amended and Restated 2020 Equity Incentive Plan and forms of agreements thereunder.	S-1/A	333-239490	10.2	July 13, 2020	
10.5+	2020 Employee Stock Purchase Plan.	S-1/A	333-239490	10.3	July 13, 2020	
10.6+	Confirmatory Employment Letter between the Registrant and Jason Lettmann.	8-K	001-39386	10.1	September 6, 2023	
10.7+	Confirmatory Employment Letter between the Registrant and Jaume Pons, Ph.D.	8-K	001-39386	10.2	September 6, 2023	
10.8+	Confirmatory Offer Letter between the Registrant and Peter Garcia.	S-1/A	333-239490	10.6	July 13, 2020	
10.9+	Confirmatory Offer Letter between the Registrant and Shelly Pinto.	10-K	001-39386	10.6	February 28, 2022	
10.10+	Confirmatory Offer Letter between the Registrant and Sophia Randolph, M.D., Ph.D.	S-1/A	333-239490	10.8	July 13, 2020	
10.11+	Executive Incentive Compensation Plan.	S-1/A	333-239490	10.9	July 13, 2020	
10.12+	Form of Change in Control and Severance Agreement.	S-1/A	333-239490	10.11	July 13, 2020	
10.13	Exclusive (Equity) Agreement between the Registrant and The Board of Trustees of the Leland Stanford Junior University, effective as of March 24, 2015, as amended on April 24, 2015 and May 15, 2015.	S-1	333-239490	10.12	June 26, 2020	
10.14	Amended and Restated Research and Development Services Agreement, dated as of June 18, 2018, between ALX Oncology Inc. and Tollnine, Inc., incorporating Amendment No. 1, dated as of May 3, 2019.	S-1	333-239490	10.14	June 26, 2020	
10.15	Research and Development Services Agreement, dated as of June 25, 2020, between the Registrant and Tallac Therapeutics, Inc. (formerly known as Tollnine, Inc.).	S-1	333-239490	10.15	June 26, 2020	
10.16+	Outside Director Compensation Policy.	10-Q	001-39386	10.1	May 11, 2023	



**INCORPORATED BY REFERENCE**

NUMBER	EXHIBIT TITLE	FORM	FILE NO.	EXHIBIT	FILING DATE	FILED HEREWITH
21.1	List of subsidiaries of Registrant.					X
23.1	Consent of KPMG LLP, Independent Registered Public Accounting Firm.					X
24.1	Power of Attorney.					X
31.1	Certification of Principal Executive Officer Pursuant to Rules 13a-14(a) and 15d-14(a) under the Securities Exchange Act of 1934, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.					X
31.2	Certification of Principal Financial Officer Pursuant to Rules 13a-14(a) and 15d-14(a) under the Securities Exchange Act of 1934, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.					X
32.1*	Certification of Principal Executive Officer Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.					X
32.2*	Certification of Principal Financial Officer Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.					X
97.1	Compensation Recovery Policy.					X
101.INS	Inline XBRL Instance Document.					X
101.SCH	Inline XBRL Taxonomy Extension Schema Document.					X
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase Document.					X
101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase Document.					X
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document.					X
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase Document.					X
104	Cover Page Interactive Data File (embedded within the Inline XBRL document)					X

# Certain confidential information contained in this document, marked by [\*\*\*], has been omitted pursuant to Item 601(b)(10)(iv) of Regulation S-K because it is both (i) not material and (ii) the type of information that the registrant treats as private or confidential.

+ Indicates management contract or compensatory plan.

\* The certifications attached as Exhibit 32.1 and 32.2 that accompany this Annual Report on Form 10-K are deemed furnished and not filed with the Securities and Exchange Commission and are not to be incorporated by reference into any filing of the registrant under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended, whether made before or after the date of this Annual Report on Form 10-K, irrespective of any general incorporation language contained in such filing.

**Item 16. Form 10-K Summary**

None.



**DESCRIPTION OF REGISTRANT'S SECURITIES  
REGISTERED PURSUANT TO SECTION 12 OF THE  
SECURITIES EXCHANGE ACT OF 1934**

The authorized capital stock of ALX Oncology Holdings Inc., consists of 1,000,000,000 shares of common stock, par value \$0.001 per share, and 100,000,000 shares of convertible preferred stock, par value \$0.001 per share. We have one class of securities registered under Section 12 of the Securities and Exchange Act of 1934, as amended (the "Exchange Act"), our common stock, which is listed on the Nasdaq Global Select Market under the symbol "ALXO". For purposes of this exhibit, unless the context otherwise requires, the work "we," "our," "us" and "our company" refer to ALX Oncology Holdings Inc. a Delaware corporation.

### **Description of Common Stock**

#### *General*

The following summary sets forth some of the general terms of our common stock. Because this is a summary, it does not contain all of the information that may be important to you. For a more detailed description of our common stock, you should read our amended and restated certificate of incorporation and the amended and restated bylaws, each of which is an exhibit to our Annual Report on Form 10-K to which this summary is also an exhibit, and the applicable provisions of the Delaware General Corporation Law (the "DGCL").

#### *Voting Rights*

Each holder of common stock is entitled to one vote for each share on all matters submitted to a vote of the stockholders, including the election of directors. Our certificate of incorporation and bylaws do not provide for cumulative voting rights. Because of this, the holders of a plurality of the shares of common stock entitled to vote in any election of directors can elect all of the directors standing for election, if they should so choose. With respect to matters other than the election of directors, at any meeting of the stockholders at which a quorum is present or represented, the affirmative vote of a majority of the voting power of the shares present in person or represented by proxy at such meeting and entitled to vote on the subject matter shall be the act of the stockholders, except as otherwise required by law. The holders of a majority of the voting power of the capital stock issued and outstanding and entitled to vote, present in person or represented by proxy, shall constitute a quorum for the transaction of business at all meetings of the stockholders, unless otherwise required by law or the rules of any applicable stock exchange on which the corporation's securities are listed.

#### *Dividends*

Subject to preferences that may be applicable to any then-outstanding convertible preferred stock, holders of our common stock are entitled to receive dividends, if any, as may be declared from time to time by our board of directors out of legally available funds.

#### *Liquidation*

In the event of our liquidation, dissolution or winding up, holders of our common stock will be entitled to share ratably in the net assets legally available for distribution to stockholders after the payment of all of our debts and other liabilities and the satisfaction of any liquidation preference granted to the holders of any then-outstanding shares of convertible preferred stock.

#### *Rights and Preferences*

Holders of our common stock have no preemptive, conversion, subscription or other rights, and there are no redemption or sinking fund provisions applicable to our common stock. The rights, preferences and privileges of the holders of our common stock are subject to and may be adversely affected by the rights of the holders of shares of any series of our convertible preferred stock that we may designate in the future.

#### *Fully Paid and Nonassessable*

All of our outstanding shares of common stock are fully paid and nonassessable.

## **Description of Preferred Stock**

Our board of directors has the authority, without further action by the stockholders, to issue up to 100,000,000 shares of preferred stock in one or more series and to fix the rights, preferences, privileges and restrictions thereof. These rights, preferences and privileges could include dividend rights, conversion rights, voting rights, redemption rights, liquidation preferences, sinking fund terms and the number of shares constituting any series or the designation of such series, any or all of which may be greater than the rights of common stock. The issuance of preferred stock could adversely affect the voting power of holders of common stock and the likelihood that such holders will receive dividend payments and payments upon liquidation. In addition, the issuance of preferred stock could have the effect of delaying, deferring or preventing change in our control or other corporate action. No shares of preferred stock are outstanding, and we have no present plan to issue any shares of preferred stock.

### *Registration Rights*

We are party to an amended and restated investors' rights agreement that provides that certain holders of our common stock have certain registration rights as set forth below. The registration of shares of our common stock by the exercise of registration rights described below would enable the holders to sell these shares without restriction under the Securities Act of 1933 (the "Securities Act") when the applicable registration statement is declared effective. Generally, in an underwritten offering, the managing underwriter, if any, has the right, subject to specified conditions, to limit the number of shares such holders may include.

### *Demand Registration Rights*

Certain holders of our common stock are entitled to certain demand registration rights. At any time beginning 180 days after the effective date of our initial public offering and before the three-year anniversary of the date of the investors' rights agreement, the holders of at least 50% of the shares in the aggregate may request that we file a registration statement to register all or a portion of their shares. Such request for registration must cover at least 40% of the shares or shares with an anticipated aggregate public offering price, net of underwriting discounts and expenses, of at least \$15.0 million.

### *S-3 Registration Rights*

Certain holders of our common stock are entitled to certain Form S-3 registration rights. At any time when we are eligible to file a registration statement on Form S-3, the holders of at least 10% of these shares can make a request that we register their shares on Form S-3 if such request covers shares with an anticipated aggregate public offering price, net of underwriting discounts and expenses, of at least \$1.0 million.

### *Piggyback Registration Rights*

Certain holders of our common stock are entitled to certain "piggyback" registration rights. If we propose to register any of our securities under the Securities Act, either for our own account or for the account of other security holders, such holders will be entitled to certain piggyback registration rights allowing the holder to include their shares in such registration, subject to certain marketing and other limitations. As a result, whenever we propose to file a registration statement under the Securities Act, the holders of these shares are entitled to notice of the registration and have the right to include their shares in the registration, subject to limitations that the underwriters may impose on the number of shares included in the offering.

### *Indemnification*

Our amended and restated investors' rights agreement contains customary cross-indemnification provisions, under which we are obligated to indemnify holders of registrable securities in the event of material misstatements or omissions in the registration statement attributable to us, and they are obligated to indemnify us for material misstatements or omissions attributable to them.

### *Expenses of Registration*

We will pay the registration expenses, other than underwriting discounts and commissions, of the shares registered by the demand, Form S-3 and piggyback registrations described above.

### *Termination of Registration Rights*

The demand, Form S-3 and piggyback registration described above will expire upon the earliest of (1) the fifth anniversary after the closing of our initial public offering, (2) a deemed liquidation event (as defined in our amended and restated certificate of



incorporation, in effect prior to the completion of our initial public offering) and (3) such time after the completion of our initial public offering that such stockholder can sell all of its shares entitled to registration rights under Rule 144 of the Securities Act.

### **Anti-Takeover Effects of Certain Provisions of Delaware Law, Our Amended and Restated Certificate of Incorporation and Our Amended and Restated Bylaws**

Certain provisions of Delaware law and certain provisions that are included in our amended and restated certificate of incorporation and amended and restated bylaws summarized below may be deemed to have an anti-takeover effect and may delay, deter or prevent a tender offer or takeover attempt that a stockholder might consider to be in its best interests, including attempts that might result in a premium being paid over the market price for the shares held by stockholders.

#### *Preferred Stock*

Our amended and restated certificate of incorporation contains provisions that permit our board of directors to issue, without any further vote or action by the stockholders, shares of preferred stock in one or more series and, with respect to each such series, to fix the number of shares constituting the series and the designation of the series, the voting rights (if any) of the shares of the series and the powers, preferences or relative, participation, optional and other special rights, if any, and any qualifications, limitations or restrictions, of the shares of such series.

#### *Classified Board*

Our amended and restated certificate of incorporation provides that our board of directors is divided into three classes, designated Class I, Class II and Class III. Each class will be an equal number of directors, as nearly as possible, consisting of one-third of the total number of directors constituting the entire board of directors. The term of initial Class I directors shall terminate on the date of the 2021 annual meeting, the term of the initial Class II directors shall terminate on the date of the 2022 annual meeting, and the term of the initial Class III directors shall terminate on the date of the 2023 annual meeting. At each annual meeting of stockholders beginning in 2021, successors to the class of directors whose term expires at that annual meeting will be elected for a three-year term.

#### *Removal of Directors*

Our amended and restated certificate of incorporation provides that stockholders may only remove a director for cause by a vote of no less than a majority of the shares present in person or by proxy at the meeting and entitled to vote.

#### *Director Vacancies*

Our amended and restated certificate of incorporation authorizes only our board of directors to fill vacant directorships.

#### *No Cumulative Voting*

Our amended and restated certificate of incorporation provides that stockholders do not have the right to cumulate votes in the election of directors.

#### *Special Meetings of Stockholders*

Our amended and restated certificate of incorporation and amended and restated bylaws provide that, except as otherwise required by law, special meetings of the stockholders may be called only by the board of directors acting pursuant to a resolution adopted by a majority of our board of directors, by the Chair of our board of directors, by our Chief Executive Officer or by the President.

### *Advance Notice Procedures for Director Nominations*

Our amended and restated bylaws provide that stockholders seeking to nominate candidates for election as directors at an annual or special meeting of stockholders must provide timely notice thereof in writing. Although the amended and restated bylaws do not give the board of directors the power to approve or disapprove stockholder nominations of candidates to be elected at an annual meeting, the amended and restated bylaws may have the effect of precluding the conduct of certain business at a meeting if the proper procedures are not followed or may discourage or deter a potential acquirer from conducting a solicitation of proxies to elect its own slate of directors or otherwise attempting to obtain control of the company.

### *Action by Written Consent*

Our amended and restated certificate of incorporation and amended and restated bylaws provide that any action to be taken by the stockholders must be effected at a duly called annual or special meeting of stockholders and may not be effected by written consent.

### *Amending our Certificate of Incorporation and Bylaws*

Our amended and restated certificate of incorporation may be amended or altered in any manner provided by the DGCL. Our amended and restated bylaws may be adopted, amended, altered or repealed by stockholders only upon approval of at least majority of the voting power of all the then outstanding shares of the common stock, except for any amendment of the above provisions, which would require the approval of a two-thirds majority of our then outstanding common stock. Additionally, our amended and restated certificate of incorporation provides that our bylaws may be amended, altered or repealed by the board of directors.

### *Authorized but Unissued Shares*

Our authorized but unissued shares of common stock and preferred stock are available for future issuances without stockholder approval, except as required by the listing standards of Nasdaq, and may be utilized for a variety of corporate purposes, including future offerings to raise additional capital, acquisitions and employee benefit plans. The existence of authorized but unissued and unreserved common stock and preferred stock may render more difficult or discourage an attempt to obtain control of the company by means of a proxy contest, tender offer, merger or otherwise.

### *Exclusive Jurisdiction*

Our amended and restated bylaws provide that, unless we consent to the selection of an alternative forum, the Court of Chancery of the State of Delaware shall be the sole and exclusive forum for any derivative action or proceeding brought on our behalf, any action asserting a claim of breach of fiduciary duty, any action asserting a claim arising pursuant to the DGCL, any action regarding our amended and restated certificate of incorporation or amended and restated bylaws, or any action asserting a claim against us that is governed by the internal affairs doctrine. Our amended and restated bylaws further provide that the federal district courts of the United States will be the exclusive forum for resolving any complaint asserting a cause of action arising under the Securities Act. Any person or entity purchasing or otherwise acquiring any interest in our securities shall be deemed to have notice of and consented to these provisions. Although we believe these provisions benefit us by providing increased consistency in the application of law for the specified types of actions and proceedings, the provisions may have the effect of discouraging lawsuits against us or our directors and officers. For additional information, please also see the section titled “Risk Factors—Our amended and restated bylaws provide that the Court of Chancery of the State of Delaware and the federal district courts of the United States will be the exclusive forums for substantially all disputes between us and our stockholders, which could limit our stockholders’ ability to obtain a favorable judicial forum for disputes with us or our directors, officers or employees.”

### *Business Combinations with Interested Stockholders*

We are governed by Section 203 of the DGCL. Subject to certain exceptions, Section 203 of the DGCL prohibits a public Delaware corporation from engaging in a business combination (as defined in such section) with an “interested stockholder” (defined generally as any person who beneficially owns 15% or more of the outstanding voting stock of such corporation or any person affiliated with such person) for a period of three years following the time that such stockholder became an interested stockholder, unless (i) prior to such time the board of directors of such corporation approved either the business combination or the transaction that resulted in the stockholder becoming an interested stockholder; (ii) upon consummation of the transaction that resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85% of the voting stock of such corporation at the time the transaction commenced (excluding for purposes of determining the voting stock of such corporation outstanding (but not the outstanding voting stock owned by the interested stockholder) those shares owned (A) by persons who are directors and also officers of such corporation and (B) by employee stock plans in which employee participants do not have the right to determine confidentially whether shares held subject to the plan will be tendered in a tender or exchange offer); or (iii) at or subsequent to such time the business combination is approved by the board of directors of such corporation and authorized at a meeting of stockholders (and not by written consent) by the affirmative vote of at least 66 2/3% of the outstanding voting stock of such corporation not owned by the interested stockholder.

Our amended and restated certificate of incorporation and our amended and restated bylaws provide that we must indemnify our directors and officers to the fullest extent authorized by the DGCL. We are expressly authorized to, and do, carry directors’ and officers’ insurance providing coverage for our directors, officers and certain employees for some liabilities. We believe that these indemnification provisions and insurance are useful to attract and retain qualified directors and executive directors.

The limitation on liability and indemnification provisions in our certificate of incorporation and bylaws may discourage stockholders from bringing a lawsuit against directors for breach of their fiduciary duty. These provisions may also have the effect of reducing the likelihood of derivative litigation against directors and officers, even though such an action, if successful, might otherwise benefit us and our stockholders. In addition, your investment may be adversely affected to the extent we pay the costs of settlement and damage awards against directors and officers pursuant to these indemnification provisions.

### *Listing*

Our common stock is listed on the Nasdaq Global Select Market under the symbol “ALXO.”

### *Transfer Agent and Registrar*

The transfer agent and registrar for our common stock is Computershare Trust Company, N.A. The transfer agent and registrar’s address is 150 Royall Street, Canton, Massachusetts 02021.

**SUBSIDIARIES OF ALX ONCOLOGY HOLDINGS INC.**

**Name of Subsidiary**

ALX Oncology Limited  
ALX Oncology Incorporated  
Alexo International Holdings Limited

**Jurisdiction of Incorporation or Organization**

Ireland  
Delaware  
Malta

**CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

We consent to the incorporation by reference in the registration statements (Nos. 333-239927, 333-254459, 333-263090, and 333-270424) on Form S-8 and (Nos. 333-263863 and 333-274314) on Form S-3 of our report dated March 7, 2024, with respect to the consolidated financial statements of ALX Oncology Holdings Inc.

/s/ KPMG LLP

San Francisco, California

March 7, 2024





**CERTIFICATION PURSUANT TO  
RULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934,  
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Peter Garcia, certify that:

1. I have reviewed this Annual Report on Form 10-K of ALX Oncology Holdings Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: March 7, 2024

By: \_\_\_\_\_  
/s/ Peter Garcia  
**Peter Garcia**  
**Chief Financial Officer**  
**(Principal Financial Officer)**



**CERTIFICATION PURSUANT TO  
18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO  
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report of ALX Oncology Holdings Inc. (the “Company”), on Form 10-K for the fiscal year ended December 31, 2023, as filed with the Securities and Exchange Commission on the date hereof (the “Report”), I certify, pursuant to 18 U.S.C. §1350, as adopted pursuant to section 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and result of operations of the Company.

Date: March 7, 2024

By: \_\_\_\_\_  
/s/ Peter Garcia  
**Peter Garcia**  
**Chief Financial Officer**  
**(Principal Financial Officer)**

**ALX ONCOLOGY HOLDINGS INC.**  
**COMPENSATION RECOVERY POLICY**

As adopted on July 25, 2023

ALX Oncology Holdings Inc. (the “**Company**”) is committed to strong corporate governance. As part of this commitment, the Company has adopted this clawback policy called the Compensation Recovery Policy (the “**Policy**”) pursuant to approval by the Compensation Committee (the “**Committee**”) of the Company’s Board of Directors (the “**Board**”). The Policy is intended to further the Company’s pay-for-performance philosophy and to comply with applicable law by providing for the reasonably prompt recovery of certain executive compensation in the event of an Accounting Restatement. Capitalized terms used in the Policy are defined below, and the definitions have substantive impact on its application so reviewing them carefully is important to your understanding.

The Policy, which was approved as set forth above, is intended to comply with Section 10D of the Securities Exchange Act of 1934 (the “**Exchange Act**”), with Exchange Act Rule 10D-1 and with the listing standards of the national securities exchange (the “**Exchange**”) on which the securities of the Company are listed. The Policy will be interpreted in a manner that is consistent with the requirements of Section 10D of the Exchange Act, Exchange Act Rule 10D-1 and with the listing standards of the Exchange, including any interpretive guidance provided by the Exchange.

In summary, the Policy provides rules related to the reasonably prompt recovery of certain incentive-based compensation received by Executive Officers. The application of the Policy to Executive Officers is not discretionary, except to the limited extent provided below, and applies without regard to whether an Executive Officer was at fault.

**Persons Covered by the Policy**

The Policy is binding and enforceable against all Executive Officers. “**Executive Officer**” means each individual who is or was ever designated as an “officer” by the Board in accordance with Exchange Act Rule 16a-1(f). Each Executive Officer will be required to sign and return to the Company an acknowledgement that such Executive Officer will be bound by the terms and comply with the Policy. The failure to obtain such acknowledgement will have no impact on the applicability or enforceability of the Policy.

**Administration of the Policy**

The Committee has full delegated authority to administer the Policy. The Committee is authorized to interpret and construe the Policy and to make all determinations necessary, appropriate, or advisable for the administration of the Policy. In addition, if determined in the discretion of the Board, the Policy may be administered by the independent members of the Board or another committee of the Board made up of independent members of the Board, in which case all references to the Committee will be deemed to refer to the independent members of the Board or the other Board committee. All determinations of the Committee will be final and binding and will be given the maximum deference permitted by law.

**Events Requiring Application of the Policy**

If the Company is required to prepare an accounting restatement due to the material noncompliance of the Company with any financial reporting requirement under the securities laws, including any required accounting restatement to correct an error in previously issued financial statements that is material to the previously issued financial statements, or that would result in a material misstatement if the error were corrected in the current period or left uncorrected in the current period (an “**Accounting Restatement**”), then the Committee must determine what compensation, if any, must be recovered.



## Compensation Covered by the Policy

The Policy applies to **Incentive-Based Compensation** (certain terms used in this Section are defined below) that is **Received** after October 2, 2023 (the “**Effective Date**”), during the **Covered Period** while the Company has a class of securities listed on a national securities exchange. Such Incentive-Based Compensation is considered “**Clawback Eligible Incentive-Based Compensation**” if the Incentive-Based Compensation is Received by a person after such person became an Executive Officer and the person served as an Executive Officer at any time during the performance period for the Incentive-Based Compensation. The Incentive-Based Compensation that must be recovered is the amount of Clawback Eligible Incentive-Based Compensation that exceeds the amount of Clawback Eligible Incentive-Based Compensation that otherwise would have been Received had such Clawback Eligible Incentive-Based Compensation been determined based on the restated amounts (such compensation, as computed without regard to any taxes paid, the “**Excess Compensation**,” is referred to in the listings standards as “erroneously awarded incentive-based compensation”).

To determine the amount of Excess Compensation for Incentive-Based Compensation based on stock price or total shareholder return, where it is not subject to mathematical recalculation directly from the information in an Accounting Restatement, the amount must be based on a reasonable estimate of the effect of the Accounting Restatement on the stock price or total shareholder return upon which the Incentive-Based Compensation was Received and the Company must maintain documentation of the determination of that reasonable estimate and provide such documentation to the Exchange.

“**Incentive-Based Compensation**” means any compensation that is granted, earned, or vested based wholly or in part upon the attainment of a Financial Reporting Measure. For the avoidance of doubt, no compensation that is potentially subject to recovery under the Policy will be earned until the Company’s right to recover under the Policy has lapsed. The following items of compensation are not Incentive-Based Compensation under the Policy: salaries, bonuses paid solely at the discretion of the Compensation Committee or Board that are not paid from a bonus pool that is determined by satisfying a Financial Reporting Measure, bonuses paid solely upon satisfying one or more subjective standards and/or completion of a specified employment period, non-equity incentive plan awards earned solely upon satisfying one or more strategic measures or operational measures, and equity awards for which the grant is not contingent upon achieving any Financial Reporting Measure performance goal and vesting is contingent solely upon completion of a specified employment period (e.g., time-based vesting equity awards) and/or attaining one or more non-Financial Reporting Measures.

“**Financial Reporting Measures**” are measures that are determined and presented in accordance with the accounting principles used in preparing the Company’s financial statements, and any measures that are derived wholly or in part from such measures. Stock price and total shareholder return are also Financial Reporting Measures. A Financial Reporting Measure need not be presented within the financial statements or included in a filing with the Securities and Exchange Commission.

Incentive-Based Compensation is “**Received**” under the Policy in the Company’s fiscal period during which the Financial Reporting Measure specified in the Incentive-Based Compensation award is attained, even if the payment, vesting, settlement or grant of the Incentive-Based Compensation occurs after the end of that period. For the avoidance of doubt, the Policy does not apply to Incentive-Based Compensation for which the Financial Reporting Measure is attained prior to the Effective Date.

“**Covered Period**” means the three completed fiscal years immediately preceding the Accounting Restatement Determination Date. In addition, Covered Period can include certain transition periods resulting from a change in the Company’s fiscal year. The Company’s obligation to recover Excess Compensation is not dependent on if or when the restated financial statements are filed.

“**Accounting Restatement Determination Date**” means the earliest to occur of: (a) the date the Board, a committee of the Board, or one or more of the officers of the Company authorized to take such action if Board action is not required, concludes, or reasonably should have concluded, that the Company is required to prepare an

Accounting Restatement; and (b) the date a court, regulator, or other legally authorized body directs the Company to prepare an Accounting Restatement.

### **Repayment of Excess Compensation**

The Company must recover such Excess Compensation reasonably promptly and Executive Officers are required to repay Excess Compensation to the Company. Subject to applicable law, the Company may recover such Excess Compensation by requiring the Executive Officer to repay such amount to the Company by direct payment to the Company or such other means or combination of means as the Committee determines to be appropriate (these determinations do not need to be identical as to each Executive Officer). These means may include:

- (a) requiring reimbursement of cash Incentive-Based Compensation previously paid;
- (b) seeking recovery of any gain realized on the vesting, exercise, settlement, sale, transfer, or other disposition of any equity-based awards;
- (c) offsetting the amount to be recovered from any unpaid or future compensation to be paid by the Company or any affiliate of the Company to the Executive Officer;
- (d) cancelling outstanding vested or unvested equity awards; and/or
- (e) taking any other remedial and recovery action permitted by law, as determined by the Committee.

The repayment of Excess Compensation must be made by an Executive Officer notwithstanding any Executive Officer's belief (whether legitimate or non-legitimate) that the Excess Compensation had been previously earned under applicable law and therefore is not subject to clawback.

In addition to its rights to recovery under the Policy, the Company or any affiliate of the Company may take any legal actions it determines appropriate to enforce an Executive Officer's obligations to the Company or to discipline an Executive Officer, including (without limitation) termination of employment, institution of civil proceedings, reporting of misconduct to appropriate governmental authorities, reduction of future compensation opportunities or change in role. The decision to take any actions described in the preceding sentence will not be subject to the approval of the Committee and can be made by the Board, any committee of the Board, or any duly authorized officer of the Company or of any applicable affiliate of the Company.

### **Limited Exceptions to the Policy**

The Company must recover the Excess Compensation in accordance with the Policy except to the limited extent that the conditions set forth below are met, and the Committee determines that recovery of the Excess Compensation would be impracticable:

- (a) The direct expense paid to a third party to assist in enforcing the Policy would exceed the amount to be recovered. Before reaching this conclusion, the Company must make a reasonable attempt to recover such Excess Compensation, document such reasonable attempt(s) to recover, and provide that documentation to the Exchange; or
- (b) Recovery would likely cause an otherwise tax-qualified retirement plan, under which benefits are broadly available to employees of the Company, to fail to meet the legal requirements as such.

### **Other Important Information in the Policy**

The Policy is in addition to the requirements of Section 304 of the Sarbanes-Oxley Act of 2002 that are applicable to the Company's Chief Executive Officer and Chief Financial Officer, as well as any other applicable

laws, regulatory requirements, rules, or pursuant to the terms of any existing Company policy or agreement providing for the recovery of compensation.

Notwithstanding the terms of any of the Company's organizational documents (including, but not limited to, the Company's bylaws), any corporate policy or any contract (including, but not limited to, any indemnification agreement), neither the Company nor any affiliate of the Company will indemnify or provide advancement for any Executive Officer against any loss of Excess Compensation. Neither the Company nor any affiliate of the Company will pay for or reimburse insurance premiums for an insurance policy that covers potential recovery obligations. In the event the Company is required to recover Excess Compensation from an Executive Officer who is no longer an employee pursuant to the Policy, the Company will be entitled to seek such recovery in order to comply with applicable law, regardless of the terms of any release of claims or separation agreement such individual may have signed.

The Committee or Board may review and modify the Policy from time to time.

If any provision of the Policy or the application of any such provision to any Executive Officer is adjudicated to be invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability will not affect any other provisions of the Policy or the application of such provision to another Executive Officer, and the invalid, illegal or unenforceable provisions will be deemed amended to the minimum extent necessary to render any such provision or application enforceable.

The Policy will terminate and no longer be enforceable when the Company ceases to be listed issuer within the meaning of Section 10D of the Exchange Act.

## ACKNOWLEDGEMENT

- I acknowledge that I have received and read the Compensation Recovery Policy (the “**Policy**”) of ALX Oncology Holdings Inc. (the “**Company**”).
- I understand and acknowledge that the Policy applies to me, and all of my beneficiaries, heirs, executors, administrators or other legal representatives and that the Company’s right to recovery in order to comply with applicable law will apply, regardless of the terms of any release of claims or separation agreement I have signed or will sign in the future.
- I agree to be bound by and to comply with the Policy and understand that determinations of the Committee (as such term is used in the Policy) will be final and binding and will be given the maximum deference permitted by law.
- I understand and agree that my current indemnification rights, whether in an individual agreement or the Company’s organizational documents, exclude the right to be indemnified for amounts required to be recovered under the Policy.
- I understand that my failure to comply in all respects with the Policy is a basis for termination of my employment with the Company and any affiliate of the Company as well as any other appropriate discipline.
- I understand that neither the Policy, nor the application of the Policy to me, gives rise to a resignation for good reason (or similar concept) by me under any applicable employment agreement or arrangement.
- I acknowledge that if I have questions concerning the meaning or application of the Policy, it is my responsibility to seek guidance from the Chief Financial Officer or the General Counsel of the Company (each, a “**Compliance Officer**” and collectively, the “**Compliance Officers**”), or my own personal advisors.
- I acknowledge that neither this Acknowledgement nor the Policy is meant to constitute an employment contract.

Please review, sign, and return this form to a Compliance Officer.

### Executive

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*(print name)*

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*(signature)*

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*(date)*

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## Corporate Directory

### Senior Leadership Team

**Jason Lettmann**  
Chief Executive Officer

**Jaume Pons, Ph.D.**  
President and  
Chief Scientific Officer

**Sophia Randolph, M.D., Ph.D.**  
Chief Medical Officer

**Christopher Byrd, J.D., Ph.D.**  
General Counsel

**Peter García**  
Chief Financial Officer

**Shelly Pinto**  
Senior Vice President, Finance  
and Chief Accounting Officer

### Board of Directors

**Corey Goodman, Ph.D.**  
Executive Chairman,  
ALX Oncology  
Managing Partner,  
venBio

**Scott Garland**  
Former Chief Executive Officer,  
PACT Pharma Inc.

**Rekha Hemrajani**  
Former Chief Executive Officer,  
Jiya Acquisition Corp.

**Jason Lettmann**  
Chief Executive Officer,  
ALX Oncology

**Jack Nielsen**  
Managing Partner,  
Vivo Capital

**Jaume Pons, Ph.D.**  
President and  
Chief Scientific Officer,  
ALX Oncology

**Sophia Randolph, M.D., Ph.D.**  
Chief Medical Officer,  
ALX Oncology

### Corporate Headquarters

**ALX Oncology Holdings Inc.**  
323 Allerton Avenue  
South San Francisco, CA 94080

### For More Information

**Caitlyn Doherty**  
Manager, Investor Relations and  
Corporate Communications  
cdoherty@alxoncology.com  
Tel: 650.466.7125

### Transfer Agent

**Computershare Investor Services**  
P.O. Box 505000  
Louisville, KY 40233-5000  
Tel: 800.736.3001  
www.computershare.com/investor

### Common Stock

NASDAQ Global Select Market®: ALXO

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This communication contains "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. Each of these forward-looking statements involves risks and uncertainties. Actual results may differ materially from those, express or implied, in these forward-looking statements. Important factors that could impair the value of our assets and business are disclosed in the risk factors contained in our Annual Report on Form 10-K filed with the Securities and Exchange Commission (the "SEC") on March 7, 2024, and in our Quarterly Reports on Form 10-Q and other documents filed with the SEC from time to time. Except to the extent required by law, we undertake no obligation to update such statements to reflect events that occur or circumstances that exist after the date on which they were made.

