

Don't eat me

July 16, 2021

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OVERVIEW

ALX Oncology (Nasdaq: ALXO) 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 Lead product candidate ALX148 initiating multiple Phase 2 trials

CD47 blocker

- Designed for use in combination
- Tolerability profile enables higher dosing
- Higher dosing may enable greater efficacy

Clinical proof-of-principle in both hematologic and solid tumors

Initial focus on solid tumors, MDS, and AML

Early-stage antibody candidate ALTA-002* for systemic CpG delivery

• IND by end of 2022

*SIRPa Toll-like receptor agonist antibody conjugate (TRAAC)

CD47: TUMOR ASSOCIATED ANTIGEN (TAA)- MYELOID CHECKPOINT DUALITY



TAA-Expression levels on cancer and normal cells

Checkpoint Mechanism: "do not eat me"



ALX **ØNCOLOGY**

TARGETING CD47 AS TUMOR ASSOCIATED ANTIGEN



But also targets normal cells



Dose limitations prevent full blockade of CD47 and active Fc competes with combo drug

Anti CD47 with active Fc directly targets cancer cells

ALX ONCOLOGY

TARGETING CD47 AS CHECKPOINT: ALX ONCOLOGY'S APPROACH

It spares normal cells



Anti CD47 with inactive Fc binds and block CD47-SIRP α interaction

ALX

ØNCOLOGY

High dose allows full blockade of CD47 and maximizes activity of combo drug

ALX148: METICULOUSLY DESIGNED CD47 BLOCKER

ØNCOLOGY



Designed for safety and efficacy

High affinity CD47 binding domains of SIRP $\!\alpha$

Inactive Fc domain

- ~Half the molecular weight of an antibody
- Increases solid tumor penetration
- Cross-reactive to human, monkey, mouse
- Standard antibody manufacturing process

ALX148 DEMONSTRATES SUPERIOR PHAGOCYTOSIS



ALX ØNCOLOGY

INACTIVE FC SHOWS REDUCED CYTOPENIA IN MICE IN VITRO







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

Mouse cross-reactivity allows for safety and efficacy testing in mouse models

ALX ØNCOLOGY

Inactive Fc is the core determinant of safety profile

COMBINATION EFFICACY WITH TAA (RITUXIMAB) ANTIBODIES AND CHECKPOINT INHIBITOR (ATEZOLIZUMAB)



Mouse cross-reactivity allows for better clinical translation of preclinical models: presence of CD47 sink and mouse models with intact immune system

ALX148 CLINICAL PHARMACOKINETICS AND CD47 TARGET OCCUPANCY

ALX148 Serum Levels for Cycle 1 Day 1



- Steady-state half-life of ALX148 at 10 mg/kg QW is predicted to be ~30 days.
- ALX148 PK profile is not impacted by combination drugs.

CD47 Target Occupancy by ALX148



 Near complete CD47 target occupancy (TO) by ALX148 is maintained at ≥ 3 mg/kg QW across dosing interval

0.3 and 1 mg/kg QW show near complete target occupancy at peak, but not at trough

ALX148 DEMONSTRATES FAVORABLE TOLERABILITY PROFILE



¹100 mg/kg of ALX148 \cong 200 mg/kg of a typical antibody ²Single agent safety, ALX presentation, ASCO 2018 poster

ALX ØNCOLOGY ALX148 has not yet reached a maximum tolerated dose

ALX PIPELINE

Indication		cation	Combination Agent	Preclinical	IND stage	Phase 1	Phase 2	Phase 3	Fast Track	Collaboration Partner
		HNSCC	Keytruda							
Combination Studies	SOLID TUMORS	Carcinoma	Keytruda + 5FU + Platinum							
		GC Gastric/Gastroesophageal Junction Cancer	Herceptin							
			Herceptin + Cyramza + paclitaxel							Lilly
		Breast Cancer	Zanidatamab							zymeworks
LX148	λĐ	MDS Myelodysplastic Syndromes	Azacitidine							
A	MATOLC	AML Acute Myeloid Leukemia	Azacitidine + Venclexta							
	HEI	NHL Non-Hodgkin's Lymphoma	Rituximab							
ALTA- 002*		Advanced Cancer								TALLAC

*SIRPa Toll-like receptor agonist antibody conjugate (TRAAC)

ALX148 DEMONSTRATES CONSISTENT TOLERABILITY PROFILE

Treatment related adverse events*	ALX148 + + Cyramza + d	Herceptin chemo (N=18)	ALX148 + (N=	Herceptin =30)	ALX148 + + chem	Keytruda no (N=5)	da ALX148 + Keytruda (N=52)		ALX148 + Rituximab (N=33)	
	Total n (%)	≥Grade 3	Total n (%)	≥Grade 3	Total n (%)	≥Grade 3	Total n (%)	≥Grade 3	Total n (%)	≥Grade 3
Fatigue	2 (11.1%)	-	9 (30.0%)	-		-	6 (11.5%)	-	4 (12.1%)	-
Rash	3 (16.7%)	-	-	-			5 (9.6%)	-	8 (24.2%)	-
AST increased	-	-	-	-	-	/	9 (17.3%)	-	-	-
Platelets decreased	-	-	5 (16.7%)	2 (6.7%)	/	-	4 (7.7%)	2 (3.8%)	-	-
ALT increased	-	-	-	-		-	7 (13.5%)	1 (1.9%)	-	-
Pruritus	2 (11.1%)	-	3 (10.0%)	-	-	-	5 (9.6%)	-	2 (6.1%)	-
Pyrexia	-	-	3 (10.0%)	-		-	3 (5.8%)	-	-	-
Decreased appetite	-	-	3 (10.0%)	-		-	2 (3.8%)	-	-	-
Anemia	-	-	2 (6.7%)	-	-	-	5 (9.6%)	1 (1.9%)	2 (6.1%)	1 (3.0%)
Infusion reaction	-	-	-	-	-	- 11	4 (7.7%)	-	-	-
Neutropenia / Neutrophil count decr	-	-	2 (6.7%)	2 (6.7%)		- 1.5	2 (3.8%)	1 (1.9%)	2 (6.1%)	2 (6.1%)
Nausea	-	-	2 (6.7%)	-			2 (3.8%)	-	2 (6.1%)	-
Alkaline phosphatase incr	-	-	-	-			3 (5.8%)	-	-	-
Arthralgia	-	-	-	-	-	-	3 (5.8%)	-	-	-
WBC decreased	-	-	-	-	-		3 (5.8%)	-	-	-
Myalgia	-	-	-	-	-	-	2 (3.8%)	-	2 (6.1%)	-
Diarrhea	3 (16.7%)	-	-	-		-	-	-	-	-
Urticaria	3 (16.7%)	-	-	-	-		-	-	-	-

Treatment related adverse events occurring in \geq 2 subjects in all histologies at 10 & 15 mg/kg QW.

*Data cut off: April 1, 2020 for combination cohorts of ALX148 plus Keytruda and Herceptin; October 1, 2020 for combination cohorts of ALX148 plus Rituxan, Keytruda and chemotherapy (5FU, platinum); May 03, 2021 for combination cohort of ALX148 plus Herceptin and chemotherapy (Cyramza, paclitaxel).

Tolerability profile enables broad combination potential

ALX148 HAS INITIAL CLINICAL ACTIVITY ACROSS TUMOR TYPES IN MULTIPLE TRIALS

Population	≥2L HER2+ GC		≥2L HER2+ GC	1L HNSCC		≥2L HNSCC (CPI-Naïve)		≥2L NHL (15mg/kg)
Combination	ALX148 + Herceptin + Cyramza + paclitaxel		ALX148 + Herceptin	ALX148 + Keytruda + 5FU + platinum		ALX148 + Keytruda		ALX148 + Rituximab
N-evaluable	1	8	19	4		10		10
ORR	ALX148 72%	Benchmark 28%	21%	ALX148 75%	Benchmark 36%	ALX148 40%	Benchmark 15%	70%
mPFS (months)	9.1	4.4	2.2	NC	4.9	4.6	2.1	NC
mOS (months)	NC	9.6	8.1	NC	13.0	22.1	8.4	NC
Benchmark regimen	Cyramza +	- paclitaxel		Keytruda + 5FU + platinum		Single agent Keytruda		

ALX148 plus Herceptin and Cyramza and paclitaxel data as of May 03, 2021. All other data as of October 1, 2020. NC = unable to be calculated, ORR = Objective Response Rate, mPFS = median progression free survival, mOS = median overall survival. CPI = checkpoint inhibitor.

2L GC benchmark, Wilke, Lancet Oncology, 2014; 2L HNSCC benchmark, Cohen, Lancet, 2018; 1L HNSCC benchmark, Burtness, Lancet, 2019.

NHL TRIAL: ALX148 + RITUXIMAB MECHANISM OF ACTION





ALX148 increases antibody dependent cellular phagocytosis in combination with Rituximab



NHL PROOF-OF-PRINCIPLE TRIAL



Phase 1b NHL cohorts			ALX148 10 mg/kg QW + Rituximab (n=22)	ALX148 15 mg/kg QW + Rituximab (n=11)
		Follicular	5	3
	Duinean Diana	Marginal Zone (MZL)	2	1
Relapsed/Refractory NHL,	Primary Disease,	n Mantle Cell (MCL)	4	1
prior regimen with Rituximab	1.11.1.1.1.1	DLBCL	11	6
	Median Age, Yea	rs (range)	66 (32-80)	64 (53-78)
Treatment:		Μ	17	6
ALX148 10 or 15 mg/kg once	Sex, n	F 5		5
a week (QW)		Asian	18	9
Rituximab 375 mg/m ² once a week	Race, n	White	4	2
for 4 weeks, once monthly		0	7	2
	ECOG, PS, n	1	15	9
	Median Prior The	erapy, n (range)	3 (1-7)	3 (1 -5)

Data Cutoff October 1, 2020



NHL PROOF-OF-PRINCIPLE TRIAL

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

Data Cutoff: October 1, 2020; ASH 2020 Abstract 3016 **N** = Response Evaluable Patients **Indolent** = Follicular Lymphoma and Marginal Zone Lymphoma. **Aggressive** = Diffuse Large B-cell Lymphoma and Mantle Cell Lymphoma. **ORR** = Objective Response Rate. ALX148 demonstrated higher response rate at higher dosing

ALX148

NHL

ALX ØNCOLOGY

NHL: CLINICAL ACTIVITY OF ALX148 + RITUXIMAB BY PATIENT



ALX

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Data Cutoff October 1, 2020; Response evaluable patients; Responses include metabolic response per Lugano Response Criteria. ^ more than 80% increase from baseline. * 1 patient with rapid fatal progressive disease not represented in plot **ALX148**

in

NHL

NHL: ALX148 CLINICAL PHARMACOKINETICS AND EXPOSURE-RESPONSE ANALYSIS



ALX148 concentration-time profiles following first IV infusion at Cycle 1 Day 1 as single agent or in combination with Rituximab.

Data Cutoff October 1, 2020



*A significant improvement in patients with clinical response (PR,CR) with increased ALX148 exposure (AUC; p = 0.023) was observed across the exposure range evaluated (10 mg/kg QW - 15 mg/kg QW).

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ALX148

NHL

in

NON-HODGKIN LYMPHOMA PROOF-OF-PRINCIPLE SUMMARY





Other agents in CD47 class reduced dosing leading to reduced responses \bigcirc

Higher dosing enabled by ALX148 tolerability profile



Higher dosing of ALX148 led to higher responses



GC TRIAL: ALX148 + HERCEPTIN MECHANISM OF ACTION





ALX148 increases antibody dependent cellular phagocytosis in combination with Herceptin



PHASE 1B GC TRIALS: PATIENT BASELINE CHARACTERISTICS



		ALX148 + Herceptin ≥2L GC (N=20)	ALX148 + Herceptin + Cyramza/chemo ≥2L GC (N=18)
Median age, years (range)	1.11	58 (45-79)	63 (36-83)
	М	15	13
Sex, n	F	5	5
	Asian	13	15
Race, n	White	6	3
	Other	1	
	0	7	8
ECOG PS, n	1	13	10
Progressed upon prior anti-HER2 therapy, n (%)	19 (95)	17 (94)
Progressed upon ≥2 prior anti-HER2 therapy n ((%)	9 (45)	1 (6)
Progressed upon prior CPI therapy, n (%)		9 (45)	2 (11)
Visceral distant metastasis, n (%)		17 (85)	17 (94)

PHASE 1B ≥2 LINE GC TRIAL: ALX148 + HERCEPTIN



Phase 1b GC trial:



- maximum tolerated dose
- anti-cancer activity



Notes: Data Cutoff October 1, 2020. Patients who received at least one dose of ALX148 in the expansion phase, had a baseline assessment, and at least one post-baseline disease assessment; One patient with clinical progression not included in plots. ORR = Overall Response Rate. ND = Not Done. HER2 Score retrospectively assessed using archival tissue by a central IHC lab.

FDA granted ALX148 fast track designation for second-line treatment of HER2 positive GC

PHASE 1B ≥2 LINE GC TRIAL: ALX148 + HERCEPTIN + CYRAMZA + PACLITAXEL



Phase 1b higher dose + chemo trial:



R/R HER2 positive GC, 2L or greater; Progressed on prior Herceptin and fluoropyrimidine or platinum.



ALX148 10 and 15 mg/kg (QW)

- + Herceptin
- + Cyramza
- + Paclitaxel

Endpoint:

• safety of combination

ØNCOLOGY

anti-cancer activity



Data Cutoff May 03, 2021. ND = Not Done

SECOND LINE GC: PLANNED RANDOMIZED PHASE 2 CLINICAL TRIAL





ALX

HNSCC TRIAL: ALX148 + KEYTRUDA MECHANISM OF ACTION





ALX148 activates dendritic cells and enhances cross-priming of T cells



HNSCC STANDARD OF CARE & OPPORTUNITY



ALX148 in HNSCC

- Keytruda monotherapy ORR of 15% in ≥2L CPI naïve HNSCC
- Significant unmet need
- Increasing use of Keytruda monotherapy³
- Keytruda 2020 WW Sales \$14.4B⁴

¹5FU + cisplatin or carboplatin.

²83% occurrence in chemo control arm.

³Wiley 2019, Real-world treatment patterns for patients with metastatic head and neck squamous cell carcinoma treated with immuno-oncology therapy. ⁴Merck 10-K February 25, 2021

HNSCC TRIALS: PATIENT BASELINE CHARACTERISTICS



		ALX148 + Keytruda ≥2L HNSCC (N=20)	ALX148 + Keytruda + 5FU/platinum 1L HNSCC (N=5)
Median age, year	rs (range)	62.5 (35-81)	61 (45-63)
6	М	15	4
Sex, n	F	5	1
Section States	Asian	6	4
Race, n	White	12	1
	Other	2	
5000 55	0	7	4
ECOG PS, n	1	13	1
Progressed upon prior CPI therapy	y, n (%)	10 (50)	0 (0)
Visceral distant metastasis, n (%)	and the second	12 (60)	1 (20)

PHASE 1B ≥2 LINE HNSCC TRIAL: ALX148 + KEYTRUDA



Phase 1b ≥2L HNSCC trial:



- maximum tolerated dose
- anti-cancer activity

AIX

ØNCOLOGY



Notes: Data Cutoff October 1, 2020. Patients who received at least one dose of ALX148 in the expansion phase, had a baseline assessment, and at least one post-baseline disease assessment.

ORR = Overall Response Rate. **DCR** = Disease Control Rate. **CPS** = Combined Positive Score.

FDA granted ALX148 Fast Track designation for first-line treatment of patients with HNSCC

PHASE 1B HNSCC: ALX148 + KEYTRUDA + 5FU/PLATINUM FIRST LINE CHECKPOINT NAIVE



Phase 1b ≥1L HNSCC dose confirmation:



ALX **ONCOLOGY**

Data Cutoff October 1, 2020 * Intent to treat population: HNSCC (10 + 15 mg/kg) N=5; HNSCC (15 mg/kg) N=2

FIRST LINE HEAD & NECK CANCER: PHASE 2 DEVELOPMENT PLAN





ALX148

Keytruda

Chemo

ALX

ØNCOLOGY

+

+



• First patient enrolled May 2021

Endpoint:

• ORR (from benchmark of 17% to goal of 33%)

Phase 2 trial:



(Safety lead-in prior to randomization)

Endpoint:

• ORR (from benchmark of 36% to goal of 54%)

MDS TRIAL: ALX148 + AZACITIDINE MECHANISM OF ACTION





ALX148 increases pro-phagocytic signal provided by azacitidine



CD47 BLOCKADE IS CLINICALLY VALIDATED WITH SIGNIFICANT OPPORTUNITY TO IMPROVE ON MAGROLIMAB

Best Overall Response	1L MDS N=33
ORR	30 (91%)
CR	14 (42%)
CRi	NA
PR	1 (3%)
MLFS/marrow CR	8 (24%) 4 with marrow CR + HI
Hematologic improvement (HI)	7 (21%)
SD	3 (9%)
PD	0

Magrolimab with azacitidine

Sallman, ASCO 2020



Magrolimab monotherapy



Sallman, ASCO 2019

CD47 blocker 5F9 (magrolimab) shows complete responses only when paired with azacitidine, and causes frequent incidence of treatment-related, high-grade cytopenia



ORR = overall response rate. CR = complete response rate. CRi = complete remission with incomplete hematological recovery MLFS = morphologic leukemia free state SD = stable disease PD = progressive disease **ALX148**

MDS

in

PRECLINICAL: ALX148 INCREASES PHAGOCYTOSIS OF BACKBONE MDS DRUG, AZACITIDINE





Azacitidine induces calreticulin display. ALX148 increases phagocytosis in combination with azacitidine.
ALX148 INCREASES TUMOR INHIBITION OF AZACITIDINE



Combination opportunity in MDS and AML

ALX148

MDS

Disseminated AML mouse model

ALX ⁽⁾ NCOLOGY

ALX148 INCREASES TUMOR INHIBITION OF VENCLEXTA



Combination opportunity in AML

ALX **ØNCOLOGY** ALX148 AML

MDS TRIAL PLANS

Phase 1 trial: Open for Accrual



 75 mg/m^2 daily for 7 days of 28 day cycle

Endpoint:

+

safety of combination

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Phase 2 Randomized Trial

Patients:

Treatment naïve IPSS-R intermediate, high, very high risk MDS



ALX148 Recommended phase 2 dose +

Azacitidine

vs.

Azacitidine

Endpoint:

• complete response rate (CRR) (from benchmark of 17% to goal of 35%)

ALX148 in MDS

ALX148 DIFFERENTIATION POTENTIAL ENABLED BY TOLERABILITY

Tolerability



Higher dosing /

Less frequent administration

Efficacy



Fewer cytopenias





ALX148 SUMMARY

ALX148 tolerability profile enables combination with range of agents ALX148 Higher dosing and smaller molecular weight facilitate tumor penetration for greater efficacy

Clinical proof-of-principle in hematologic and solid tumors

ALX148 is the only CD47 blocker to show encouraging response data in solid tumor indications



ALX148 DEVELOPMENT PROGRESS AND FUTURE PLANS



EARLY STAGE PIPELINE: SIRPα-TRAAC COLLABORATION



ALX ONCOLOGY AND TALLAC THERAPEUTICS 50/50 JOINT COLLABORATION ON NOVEL SIRP α ANTIBODY – TLR9 AGONIST CONJUGATE (SIRP α TRAAC)

ALX ⁽⁾ N C O L O G Y • CD47-SIPRα is a dominant myeloid checkpoint mechanism where SIRPα is expressed on myeloid and dendritic cells as well as on a range of tumor cells.

Provides SIRPα antibody SIRPα expression on tumor cells enables tumor microenvironment localization of SIRPα TRAAC.

TALLAC

•

Provides TRAAC platform and TLR9 agonist Synthetic CpG oligonucleotides (CpG ODNs) are potent TLR9 agonists that stimulate antitumoral cytokine production and immune activation.

Toll-like receptor 9 (TLR9) is a key receptor in the innate immune response.

• Novel Toll-like receptor agonist antibody conjugation platform (TRAAC) enables systemic delivery of targeted TLR9 activation.

SIRPα TRAAC induces targeted immune activation, bridging innate and adaptive immune responses.

SIRPα TRAAC simultaneously overrides "don't eat me" signals by blocking CD47-SIRPα myeloid checkpoint pathway and induces TLR9-based immune activation in antigen presenting cells (APCs).

ALX **ØNCOLOGY**

TOLL-LIKE RECEPTOR 9 (TLR9): A KEY INNATE PATHWAY PROOF-OF-CONCEPT DATA IN MELANOMA PATIENTS WITH INTRATUMORAL TLR9 AGONISTS



Intratumoral programs have demonstrated clinical activity



CMP-001 (Checkmate) + Pembrolizumab in Anti-PD-1 Refractory Melanoma, ¹⁻⁴Checkmate, S1 2020.

Additional clinical data from SD-101 (Dynavax), IMO-2125 (Idera) and AST-008 (Exicure) further validate TLR9 agonism in cancer.

TALLAC TRAAC PLATFORM: SYSTEMIC, TARGETED IMMUNE ACTIVATIONANTIBODY DIRECTS TLR9 AGONIST (T-CPG) TO SPECIFIC IMMUNE CELLS

TLR9 Agonist Antibody Conjugate (TRAAC): Systemic dosing with cell specific TLR9 activation

Targeting antibody

Site specific conjugation

Targeted-CpG (T-CpG) designed specifically for compatibility with antibody conjugation, superior PK, receptor-mediated uptake and TLR9 stimulation



SIRPa IS EXPRESSED ON MYELOID AND DENDRITIC CELLS AS WELL AS SELECTED TUMOR TYPES



- SIRPα TRAAC binding to myeloid cells targets TLR9 activation in myeloid cells that matter (e.g. dendritic cells).
- SIRPα expression on tumor cells enables tumor microenvironment localization of SIRPα TRAAC.
- SIRPα TRAAC blocks CD47-SIRPα myeloid checkpoint pathway.

SIRPa TRAAC PROGRAM IS COMPLEMENTARY TO ALX148

ALX148 is an antagonistic molecule designed to maximize the activity of a wide array of anti-cancer agents by blockade of the CD47 myeloid checkpoint.

Removal of the CD47 inhibitory signal requires constant, full blockade of the pathway.





SIRP α TRAAC is an agonistic molecule that directly activates dendritic cells and initiates a coordinated innate and adaptive immune response against cancer.

In the case of agonistic molecules (TLR9 agonist), constant blockade is not required.

SIRPα TRAAC INDUCES POTENT AND SELECTIVE IMMUNE ACTIVATION AND LEADS TO POTENT SINGLE AGENT ACTIVITY IN TUMOR MODELS



Harrabi et al., SITC, 2020

ALX ØNCOLOGY

SYSTEMIC ADMINISTRATION OF SIRPα TRAAC GENERATES DURABLE ANTI-TUMOR RESPONSE AND IMMUNOLOGICAL MEMORY



- Established MC38 tumors were eradicated following 10 mg/kg 2q3d systemic treatment with SIRPα TRAAC.
- These tumor free mice were then rechallenged 60-70 days post tumor clearance.
- SIRPα TRAAC treatment group demonstrated immune protection from the tumor re-challenge.
- Naïve age-matched mice were used as control for tumor growth.

ALTA-002: TARGETING IMMUNE ACTIVATION TO WHERE IT MATTERS



ALX anti-SIRPα antibody

- SIRPα TRAAC binding to myeloid cells targets TLR9 activation in key myeloid cells (e.g. dendritic cells).
- SIRPα expression on tumor cells enables localization of SIRPα TRAAC to tumor microenvironment.
- SIRPα TRAAC blocks CD47-SIRPα myeloid checkpoint pathway.
- Antibody-like PK profile allows for convenient dosing.
- Antibody conjugate produced through established manufacturing processes.

Tallac TRAAC and TLR9 agonist

IND expected end of 2022

ALX ØNCOLOGY

FINANCIAL INFORMATION

- Consummated IPO on July 21, 2020
- Closed follow-on offering on December 14, 2020
 - Gross proceeds of \$208.0 million
 - 2.737 million shares at \$76 per share
- Cash and cash equivalents as of March 31, 2021:
 - \$429.9 million
- Expected cash runway through 2024



STRONG INTELLECTUAL PROPERTY

Robust patent position

COM patent expiry: 2036 (w/o PTE)

Exclusive, worldwide rights to high affinity SIRPα licensed from Stanford U.S. patent 10,259,859 granted

Key IP generated in-house

Non-exclusive, worldwide rights to a broad background CD47 patent portfolio from Stanford

WHY INVEST IN ALX ONCOLOGY: LEADER IN CD47 THERAPY

CD47 is a novel immune checkpoint pathway with clinical proof-of-concept

Clinical proof-of-principle in hematologic and solid tumors ALX148 is a CD47 blocker with potential for greater efficacy and tolerability due to unique mechanism of action Growing pipeline in myeloid biology

BACKUP SLIDES



CD47 MECHANISM OF ACTION AS MYELOID CHECKPOINT



ALX148: designed to work with partner anti-cancer drugs to maximize phagocytosis of cancer cells

ALX ØNCOLOGY

NHL TOLERABILITY

Selected hematologic, treatment related	ALX148 + (N=	Rituxan 33) ¹	CC-90002 (n=2	+ Rituxan 26) ²	5F9 (magrolimab) + Rituxan (n=115) ³	
adverse events	Total % (n)	≥Grade 3	Total % (n)	≥Grade 3	Total %	≥Grade 3
Neutropenia	6% (2)	6% (2)	50% (13)	39% (10)	~13%	~7%
Thrombocytopenia/ Decreased Platelets		-	35% (9)	23% (6)	~20%	~13%
Anemia	6% (2)	3% (1)	12% (3)	4% (1)	~30%	~15%

¹ASH 2020 Abstract 3016 ²ASH 2019 Abstract 4089 ³EHA 2019 Abstract S867 ALX148 in NHL

ALX148: Tolerability profile compares favorably to other CD47 blockers

ALX ⁽⁾ NCOLOGY

MAGROLIMAB NHL RESPONSE RATES AND DOSING

DLBCL w/ Rituxan	Ph1	Ph2
Ν	21	38
Dosing (mg/kg)	up to 30 Weekly	30 and 45 Every Other Week
ORR	48%	29%
CR	33%	5%
PR	14%	24%

ORR = overall response rate. CR = complete response rate. PR = partial response rate. EHA 2019 Abstract S867

Reduced dosing led to reduced overall response rate in NHL

NHL: PRELIMINARY CLINICAL TOLERABILITY



ALX148 + Rituximab (N=33)

Treatment Related Adverse Event	Total n (%)	≥Grade 3 n (%)
Rash	8 (24.2)	-
Fatigue	4 (12.1)	-
Nausea	2 (6.1)	-
Neutrophil Count Decreased	2 (6.1)	2 (6.1)
Anemia	2 (6.1)	1 (3.0)
Myalgia	2 (6.1)	
Pruritus	2 (6.1)	-

Data Cutoff: October 1, 2020

HER2 POSITIVE GC UNMET NEED

2020 US patient population by line of systemic therapy¹



5-year OS in metastatic gastric cancer is only 6%²



- Herceptin is an anti-HER2 antibody that has multiple FDA approvals in patients with HER2 positive cancers
- Clinical trials show that re-treatment with Herceptin has no activity in 2L HER2 positive gastric cancer³



¹DRG Gastroesophageal Cancer published December 2019, HER2+ rate of ~17%.
²SEER 18
³Makiyama J. Clin Oncology 2020

PHASE 1B ≥2 LINE GC TRIAL: ALX148 + HERCEPTIN + CYRAMZA + PACLITAXEL TREATMENT RELATED ADVERSE EVENTS



Treatment Related Adverse Events

ALX148 + trastuzumab + ramucirumab + paclitaxel (N=18)

	Total	n(%)
Adverse Event	ALX148	ALX148
	10 mg/kg QW	15 mg/kg QW
Diarrhea	-	3(16.7)
Rash	-	3(16.7)
Urticaria	-	3(16.7)
Pruritus	-	2(11.1)
Fatigue	1(5.6)	1(5.6)
Lymphocyte count decreased	-	1(5.6)
Abdominal pain	-	1(5.6)
Anemia	-	1(5.6)
Back pain	-	1(5.6)
Dermatitis acneiform	-	1(5.6)
Stomatitis	-	1(5.6)
Vision blurred	-	1(5.6)

≥ Grade 3 Adverse Events

ALX148 + trastuzumab + ramucirumab + paclitaxel (N=18)

Adverse Event		Total All Ca	n(%) usality		Total n(%) Related			
Grad	е	3		4	3	3	4	6 - A.
ALX148 dose QV	N 10 mg/kg	15 mg/kg	10 mg/kg	15 mg/kg	10 mg/kg	15 mg/kg	10 mg/kg	15 mg/kg
Neutrophil count decreased	1(5.6)	4(22.2)	1(5.6)	1(5.6)	-	-	-	-
Hypertension	2(11.1)	4(22.2)	-	-	-	-	-	-
Anemia	-	3(16.7)	-	-	-	-	-	-
Fatigue	-	2(11.1)	-	-	-	-	-	-
Hypophosphatemia	-	1(5.6)	-	-	-	-	-	-
Lymphocyte count decreased	-	1(5.6)	-	-	-	1(5.6)	-	-
Platelet count decreased	-	1(5.6)	-	-	-	-	-	-
Urinary tract infection	-	1(5.6)	-	-	-	-	-	-
Aspartate aminotransferase increased	-	1(5.6)	-	-	-	-	-	-
Asthenia	-	1(5.6)	-	-	-	-	-	-
Diverticulitis	-	1(5.6)	-	-	-	-	-	-
Dysphagia	-	1(5.6)	-	_	-	-	-	-
Non-cardiac chest pain	-	1(5.6)	-	-	-	-	-	-

ALX ØNCOLOGY

PHASE 1B ≥2 LINE GC TRIAL: ALX148 + HERCEPTIN + CYRAMZA + PACLITAXEL BEST OVERALL AND DURATION OF RESPONSE WHILE ON TREATMENT

≥2L HER2 positive GC





CLINICAL ACTIVITY OF ALX148 COMBINATIONS IN RESPONSE EVALUABLE PATIENTS WITH ≥2L HER2 POSITIVE GC CANCER

Population	N (EVAL)	ORR (%) [95% Cl]	DOR (m) [95% Cl]	PFS (m) [95% Cl]	PFS rate at 6 m	OS (m) [95% Cl]	0S rate at 12 m	Follow up (m) [95% Cl]
≥2L Gastric (ALX-10 mg/kg or 15 mg/kg + tras/ram/pac)	18	72.2 [49.1% ; 87.5%]	NR	9.1 [3.8 ; NR]	74.5%	NR	75.8%	10.5 [4.8 ; 12.5]
Gastric (ALX-10 mg/kg + TRP)	3	66.7 [20.8% ; 93.9%]	NR	NR	100%	NR	66.7%	14.3 [12.0;NR]
Gastric (ALX-15 mg/kg + TRP)	15	73.3 [48.1% ; 89.1%]	NR	NR	68.3%	NR	80.8%	9.4 [4.2 ; 12.5]
≥2L Gastric tras/ram/paclitaxel Rha et al ASCO 2021 ³	50	52	5.1	7.4	-	13.6		22.9
3L Gastric Enhertu DESTINY 01 ¹	126	41	11.3	5.6	43%	12.5	52%	-
≥2L Gastric ramucirumab/paclitaxel RAINBOW-ASIA Region3 ²	109	34	01	5.5		12.1		7.9
≥2L Gastric (ALX-10 mg/kg + trastuz)	19	21.1 [8.5% ; 43.3%]	8.7 [5.6; NR]	2.2 [1.9 ; 5.5]	16.7%	8.1 [3.4 ; 12.6]	38.2%	27.0 [NR]
≥3L Gastric Irinotecan or Paclitaxel DESTINY 01ControlArm ¹	62	11.3	3.9	3.5	21%	8.4	29%	

ALX ⁽⁾ NCOLOGY

¹Enhertu product insert, and Shitara et al, NEJM June 18, 2020; ²Wilke et al, Lancet October 2014; ³Rha et al #4063 ASCO 2021 (trastuzumab dosed 4 mg/kg loading followed by 2mg/kg QW)

PHASE 1B FIRST LINE HNSCC: ALX148 + KEYTRUDA + 5FU/PLATINUM TREATMENT RELATED ADVERSE EVENTS



≥ Grade 3 Adverse Events

ALX148 (10 and 15 mg/kg QW) + Keytruda + 5FU + platinum (N=5)

Total n(%) Total n(%) All Causality Related Adverse Event Grade 3 Grade 4 Grade 4 Grade 3 Neutrophil count decreased 1 (20) _ -Anemia 1 (20) -Cardiac tamponade 1 (20)* -Dysphagia 1 (20) --Pericarditis constrictive 1 (20)* ---1 (20)* Supraventricular tachycardia --

*Events occurred in a single patient with malignant pericardial effusion

No TRAEs were reported in 1L HNSCC patients (n=5)

ALX ØNCOLOGY

Data Cutoff Oct 1 2020

PHASE 1B FIRST LINE HNSCC: ALX148 + KEYTRUDA + 5FU/PLATINUM BEST OVERALL AND DURATION OF RESPONSE WHILE ON TREATMENT





ØNCOLOGY



ALX148 PK FOLLOWING COMBINATION THERAPIES IS COMPARABLE WITH AND WITHOUT CHEMOTHERAPY



ALX148

HNSCC

in

NEAR COMPLETE CD47 TARGET OCCUPANCY IS MAINTAINED THROUGHOUT ALX148 DOSING INTERVAL WHEN COMBINED WITH CHEMOTHERAPY CONTAINING REGIMENS





PRE-TREATMENT IHC RESULTS IN HOT AND COLD TUMORS HNSCC PATIENT 1 (PD-L1 POSITIVE) AND PATIENT 2 (PD-L1 NEGATIVE)



Patient 1 Best Overall Response: CR Immunologically "hot" tumor



CD8





Patient 2 Best Overall Response: PR Immunologically "cold" tumor







Patient 1: HNSCC (CPS 50) characterized as immunologically "hot" with a high density of infiltrating T lymphocytes (CD8) and tumor associated macrophages and myeloid cells (CD68 and CD163).

Patient 2: HNSCC (CPS 0) characterized as immunologically "cold" where immune cells are excluded from the tumor core while present at lower density in the peri-tumoral regions.

MDS OPPORTUNITY





Higher risk MDS patients are an area of high unmet need.



Revised international prognostic scoring system (IPSS-R). ¹Estimated: Decision Resource Group 2019 MDS Report ²Greenberg, *Blood*, 2012 ³Zeidan, *Leukemia & Lymphoma*, 2018 ⁴Fenaux, *Lancet Oncology*, 2009 ⁵Steensma, *Leukemia & Lymphoma*, 2015

HARNESSING THE POWER OF INNATE AND ADAPTIVE IMMUNE RESPONSES TO CANCER



- Successful immune-mediated elimination of cancer requires coordination between the innate and adaptive arms of the immune system.
- Innate immune cells (macrophages, myeloid cells and dendritic cells) may utilize a variety of signaling pathways, including TLR9, TLR7 or 8, STING and CD40, to trigger proinflammatory programs and engage the adaptive immune system.

DAMPs: damage-associated molecular patterns PAMPs: pathogen-associated molecular patterns PRRs: pattern recognition receptors

ALX ØNCOLOGY

TLR9 AGONIST ANTIBODY CONJUGATE (TRAAC) ENABLES VERSATILE TARGETING OF IMMUNE CELLS THAT MATTER





ALX ONCOLOGY'S SIRP α ANTIBODIES: HIGH AFFINITY AND DIVERSE EPITOPES



ALX's diverse range of SIRPα antibodies

Diversity allows selection of best-in-class SIRPα antibodies:

- Binds human SIRPα variants V1 and V2
- Cross reacts with rodent, monkey and human ${\sf SIRP}\alpha$
- Wide range of affinities
- Full coverage of SIRPα domain 1 surface allows selection for optimal epitope

ALX **ØNCOLOGY**