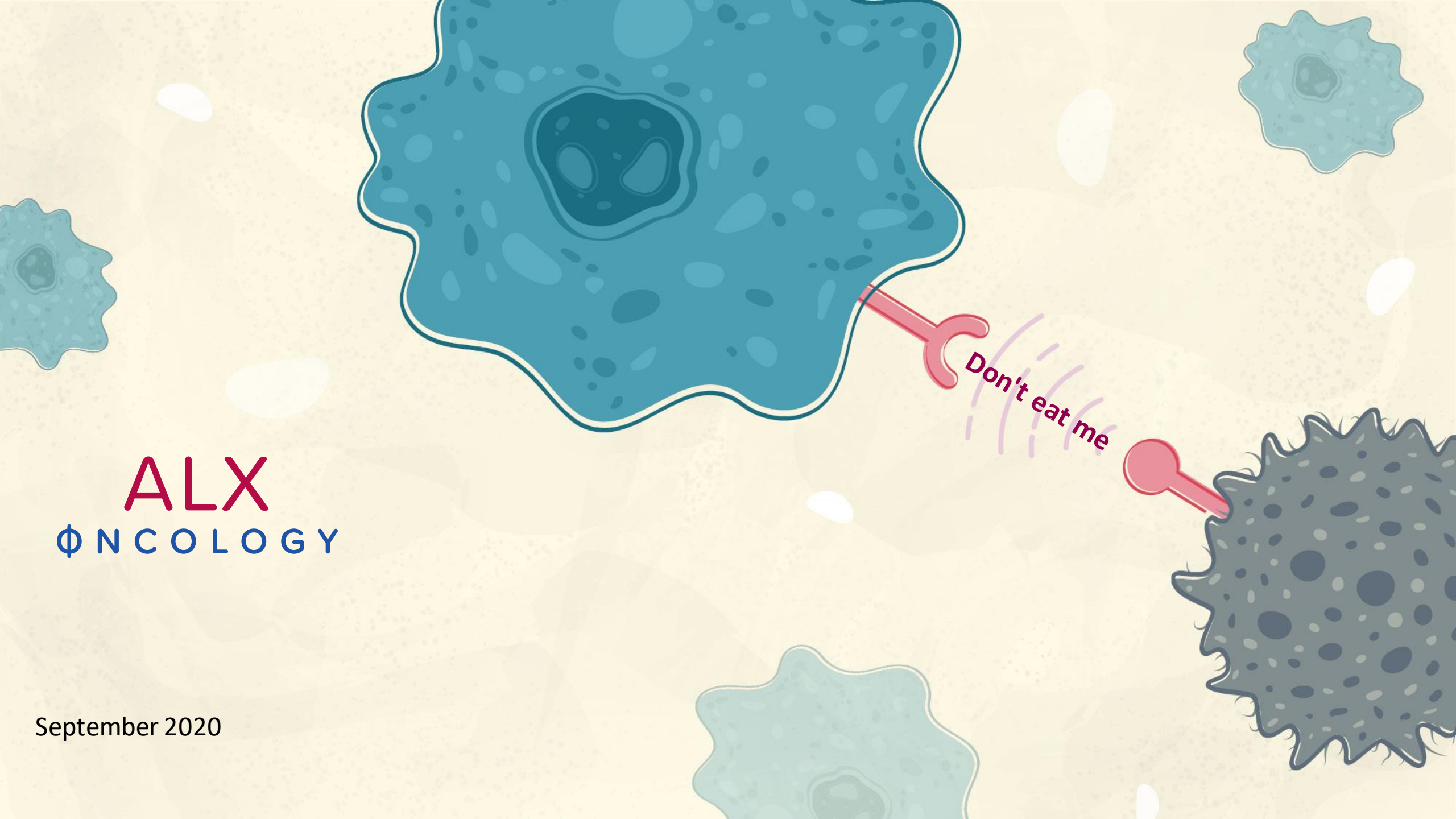


# ALX ΦNCOLOGY

September 2020



# DISCLAIMER

This presentation contains forward-looking statements that involve substantial risks and uncertainties. All statements other than statements of historical facts contained in this presentation, 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, plans and objects of management for future operations, as well as statements regarding industry trends, are 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.

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 presentation and are subject to a number of risks, uncertainties and assumptions, including, among other things: our history of incurring significant net losses since our inception and our expectation that we will continue to incur significant net losses for the foreseeable future; sufficiency of our cash and cash equivalents to fund our planned operations; the need for additional capital to finance our operations; our limited operating history and absence of products approved for commercial sale; our substantial dependency on the success of our lead product candidate, ALX148, which is in clinical development and which has not completed a pivotal trial; the fact that 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 (“FDA”) or other comparable foreign regulatory authorities; the possibility that our product candidates may cause significant adverse events or other undesirable side effects when used alone or in combination with other treatments; the fact that the 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; the lengthy, time-consuming and inherently unpredictable nature of the regulatory approval processes of the FDA and comparable foreign regulatory authorities, which could lead to our inability to generate product revenue; our ability to obtain, maintain and enforce patent protection and other intellectual property for our product candidates and related technology; our dependency on our key personnel and our ability to successfully attract, motivate and retain highly qualified personnel; the potential adverse impact of COVID-19 on our business, including our ongoing and planned clinical trials and preclinical

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This presentation also contains estimates and other statistical data made by independent parties and by us relating to market size and growth and other data about our industry. This data involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. In addition, projections, assumptions, and estimates of our future performance and the future performance of the markets in which we operate are necessarily subject to a high degree of uncertainty and risk.

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venBio



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**Jaume Pons, PhD**  
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venBio



R<sub>1</sub>NAT



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Consulting  
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Wyeth



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PDL  
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AMGEN



# 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**

CD47 blocker

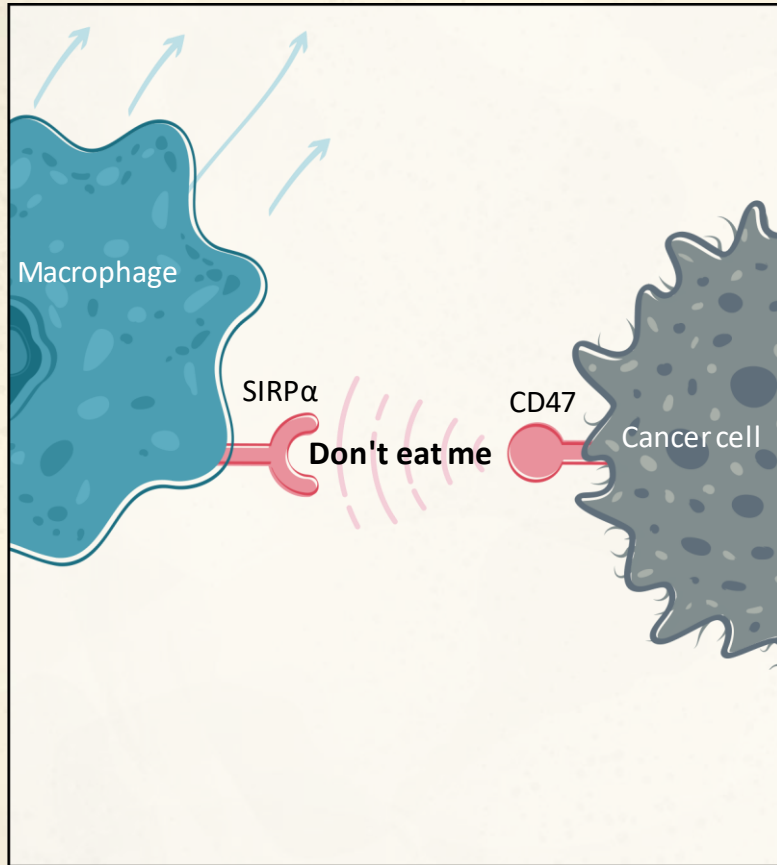
- Designed for use in combination
- Tolerability profile enables higher dosing
- Higher dosing may enable greater efficacy

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

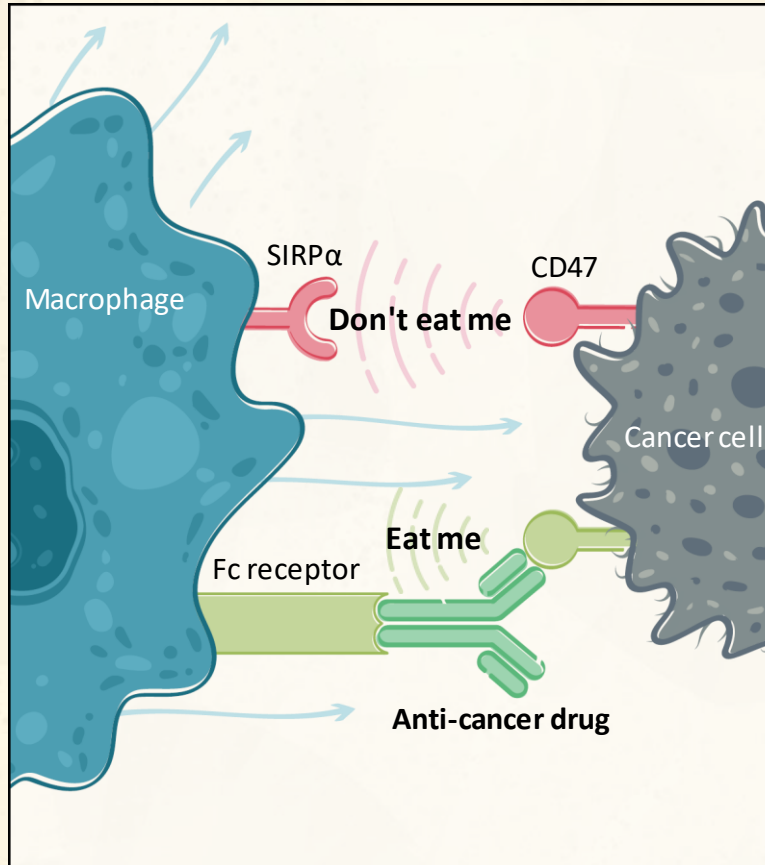
Initial focus on MDS, AML and solid tumors

# ALX148: MECHANISM OF ACTION

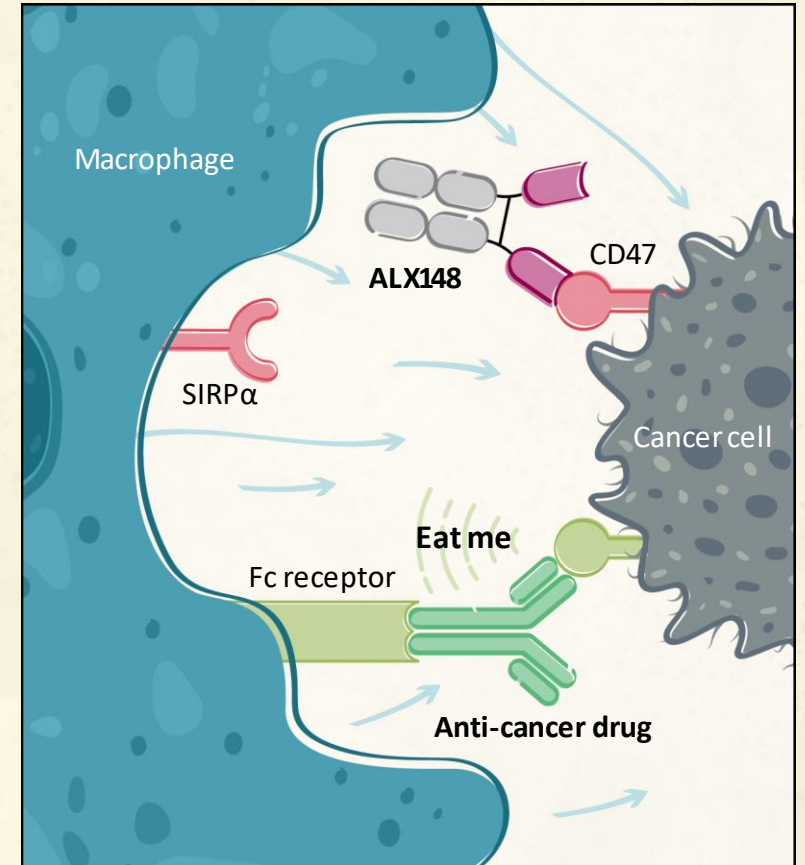
Basal state:



Anti-cancer drug alone:



ALX148 combined with anti-cancer drug:



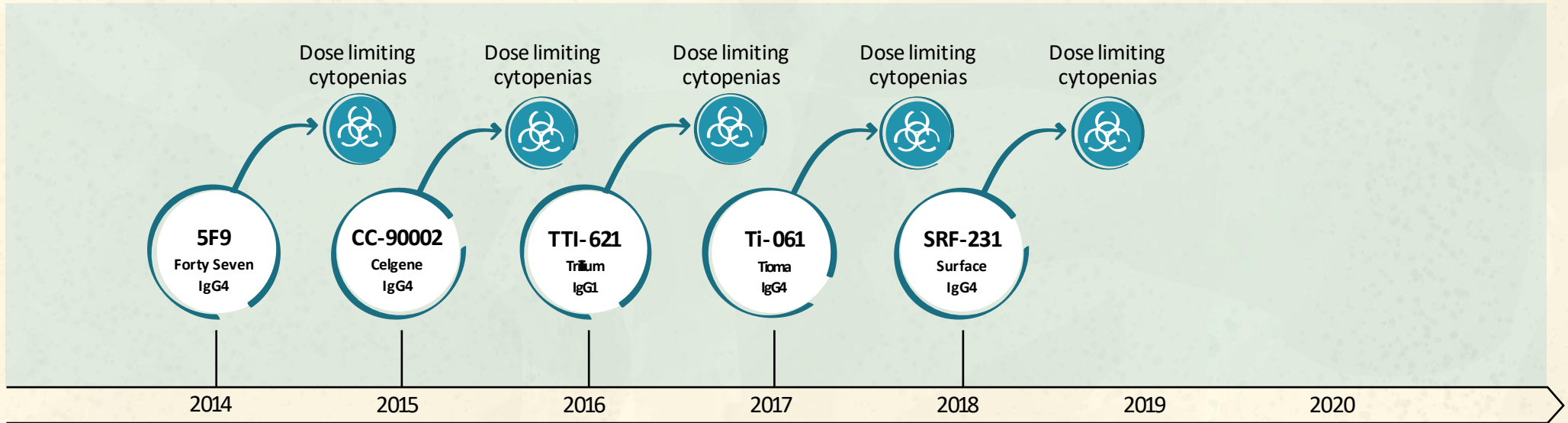
ALX148 designed to work with partner anti-cancer drugs to maximize phagocytosis of cancer cells

# CD47 BLOCKER DEVELOPMENT



## CD47 as a therapeutic target

Weissman / van den Berg  
2009-2011

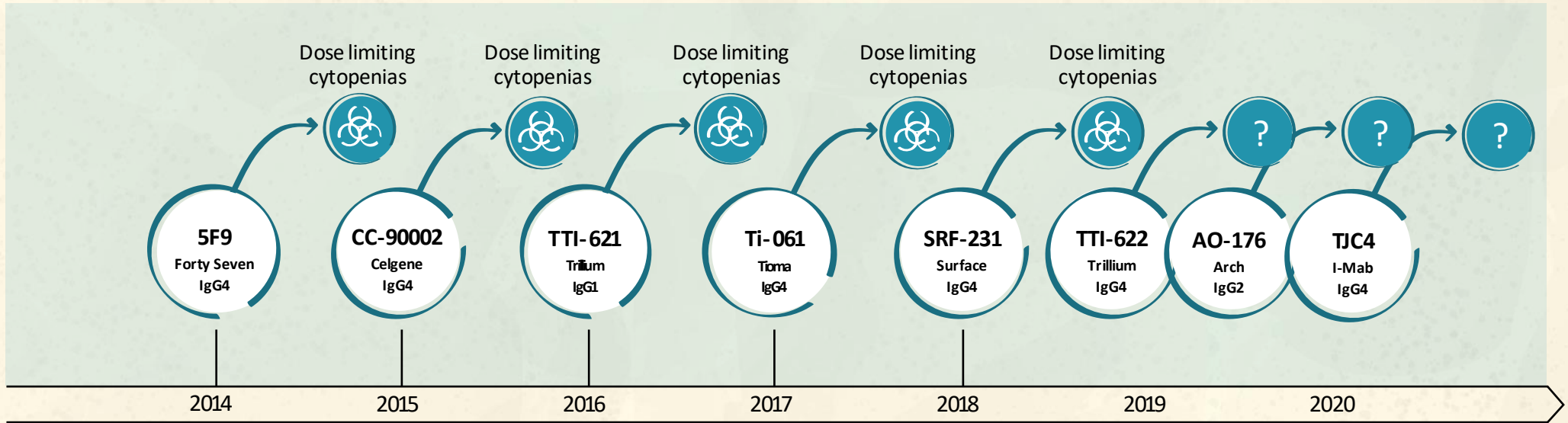


# CD47 BLOCKER DEVELOPMENT




## CD47 as a therapeutic target


Weissman / van den Berg  
2009-2011

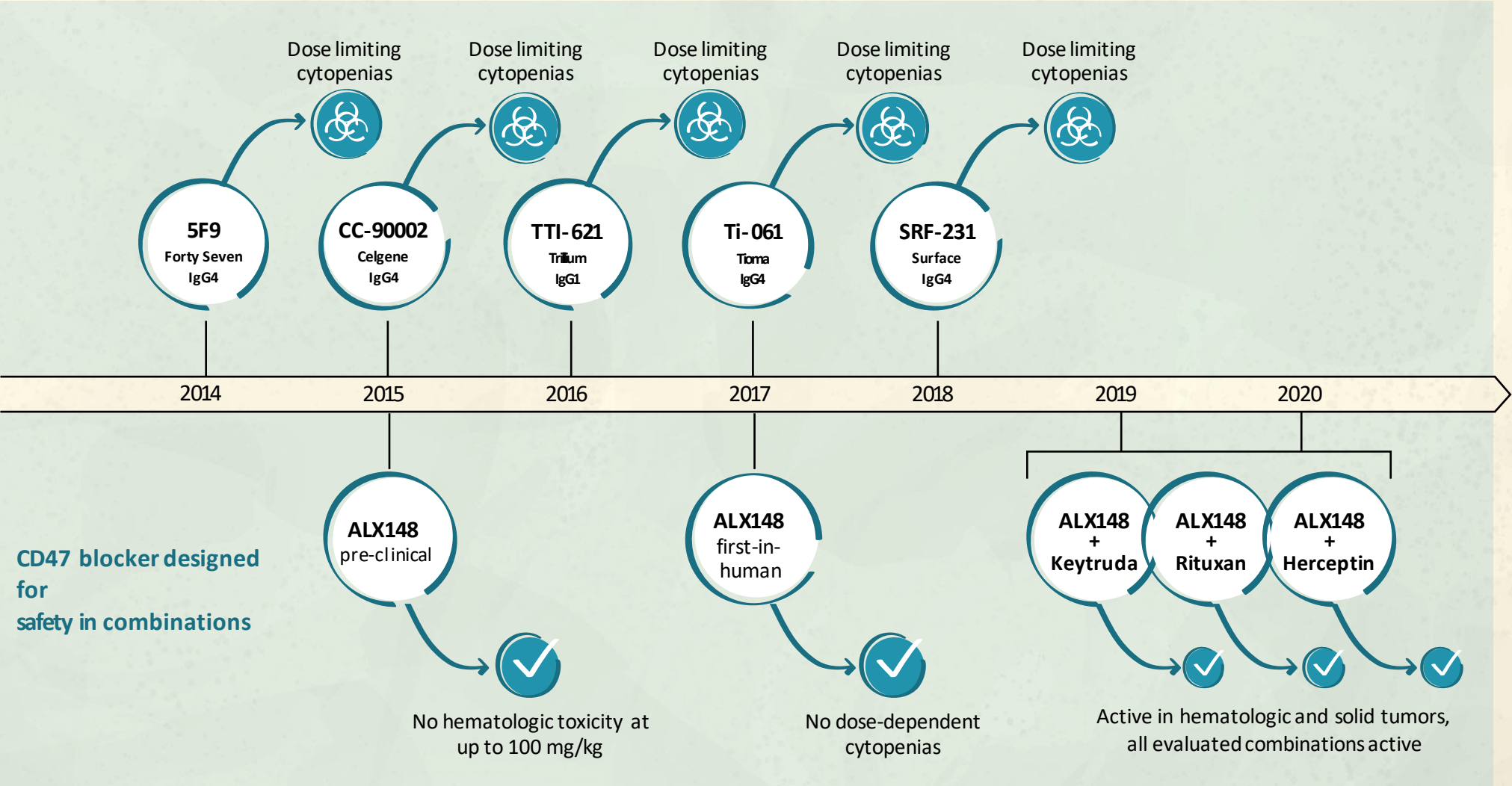




# CD47 BLOCKER DEVELOPMENT

  
**CD47 as a therapeutic target**  
Weissman / van den Berg  
2009-2011

  
**Blocking without Fc avoids cytopenias**  
Garcia  
2013





# CD47 BLOCKER DEVELOPMENT



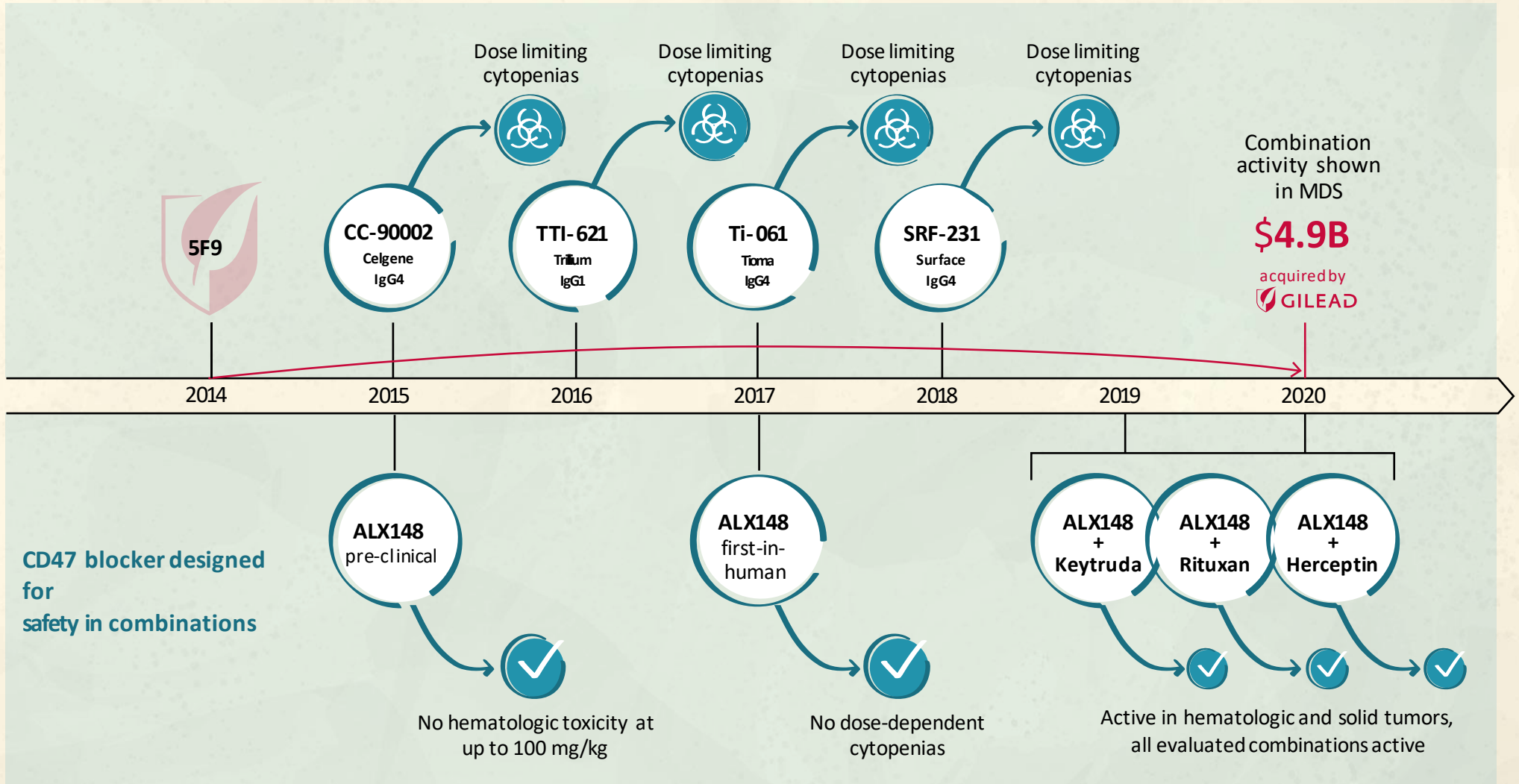
## CD47 as a therapeutic target

Weissman / van den Berg  
2009-2011



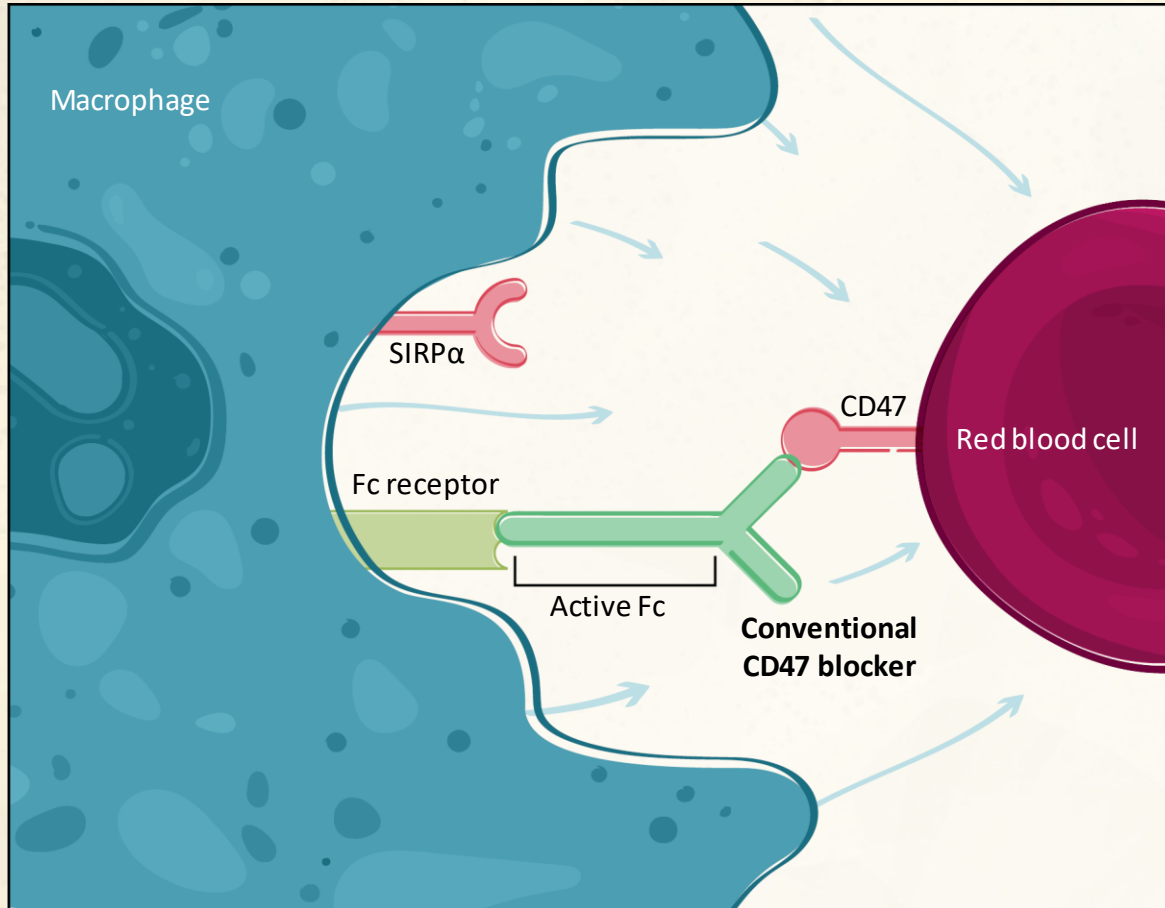
## Blocking without Fc avoids cytopenias

Garcia  
2013

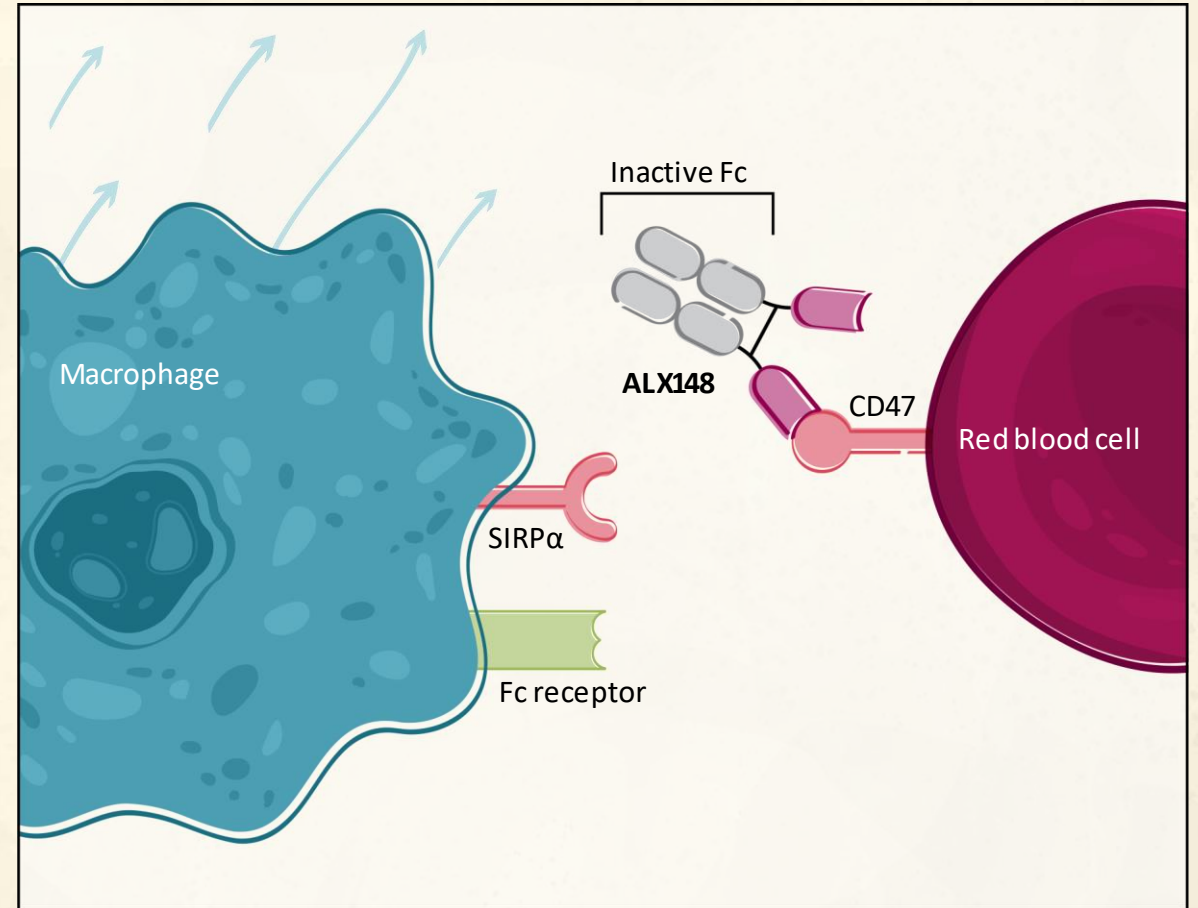


# ALX148 IS DESIGNED TO AVOID HEMATOLOGIC TOXICITY

CD47 blockers with an active Fc result in cytopenias:



ALX148 with an inactive Fc mitigates cytopenias:



# ALX148: METICULOUSLY DESIGNED CD47 BLOCKER

High affinity CD47 binding domain of SIRP $\alpha$



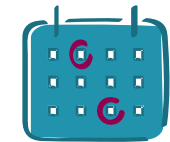
Potently blocks CD47 signal on cancer cells

Inactive Fc domain eliminates binding activity



No dose dependent cytopenia

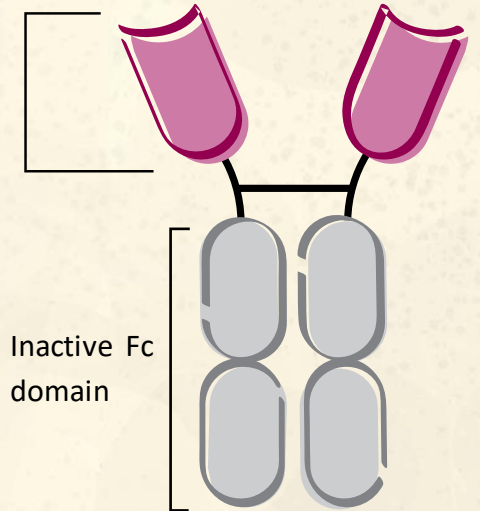
Presence of Fc domain ensures slow clearance and long half-life



Less frequent dosing

## Designed for safety and efficacy

High affinity CD47 binding domains of SIRP $\alpha$

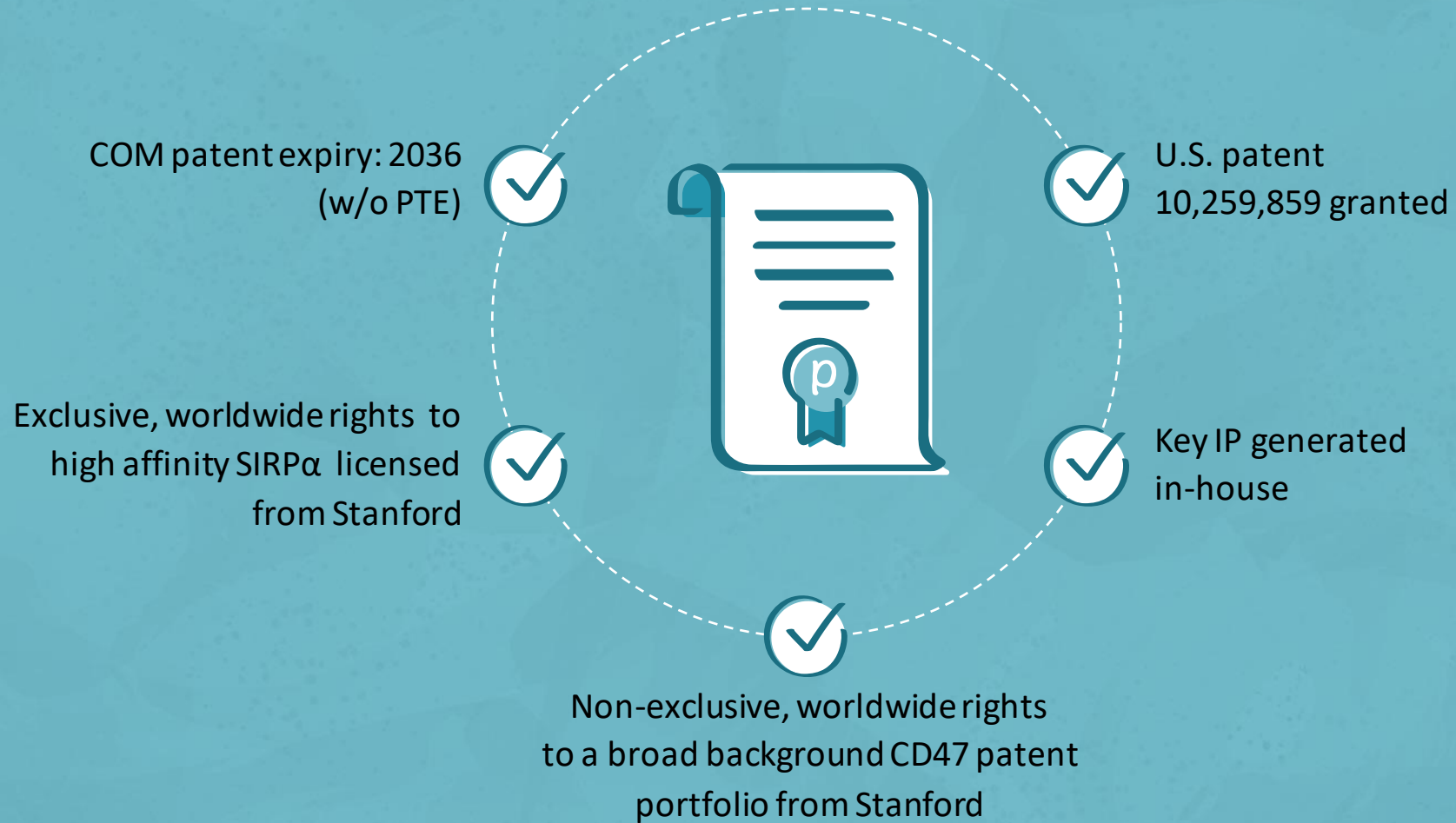


- ~Half the molecular weight of an antibody
- Increases solid tumor penetration
- Standard antibody manufacturing process

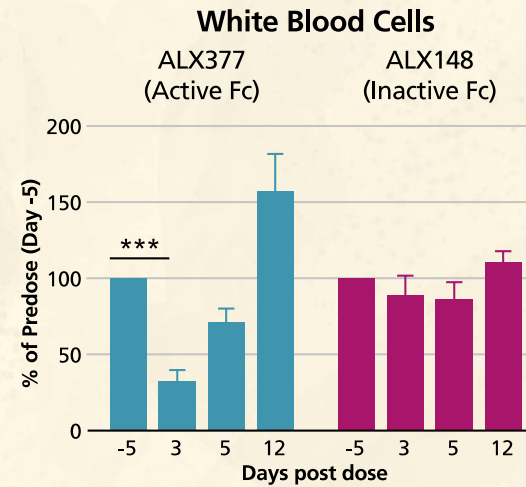
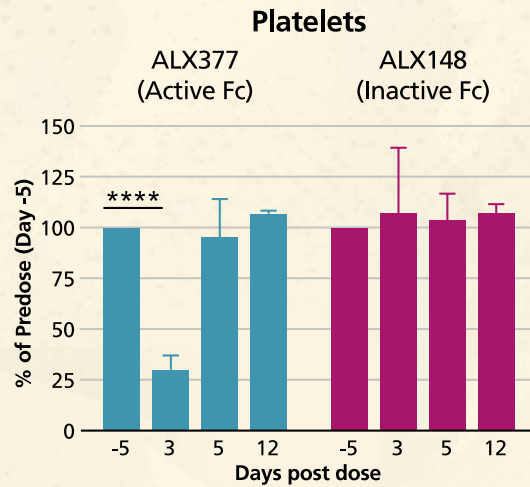
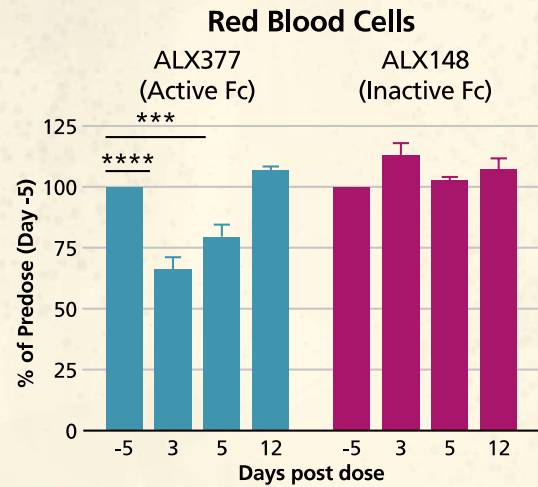


# STRONG INTELLECTUAL PROPERTY

## Robust patent position



# INACTIVE FC SHOWS REDUCED CYTOPENIA IN MICE

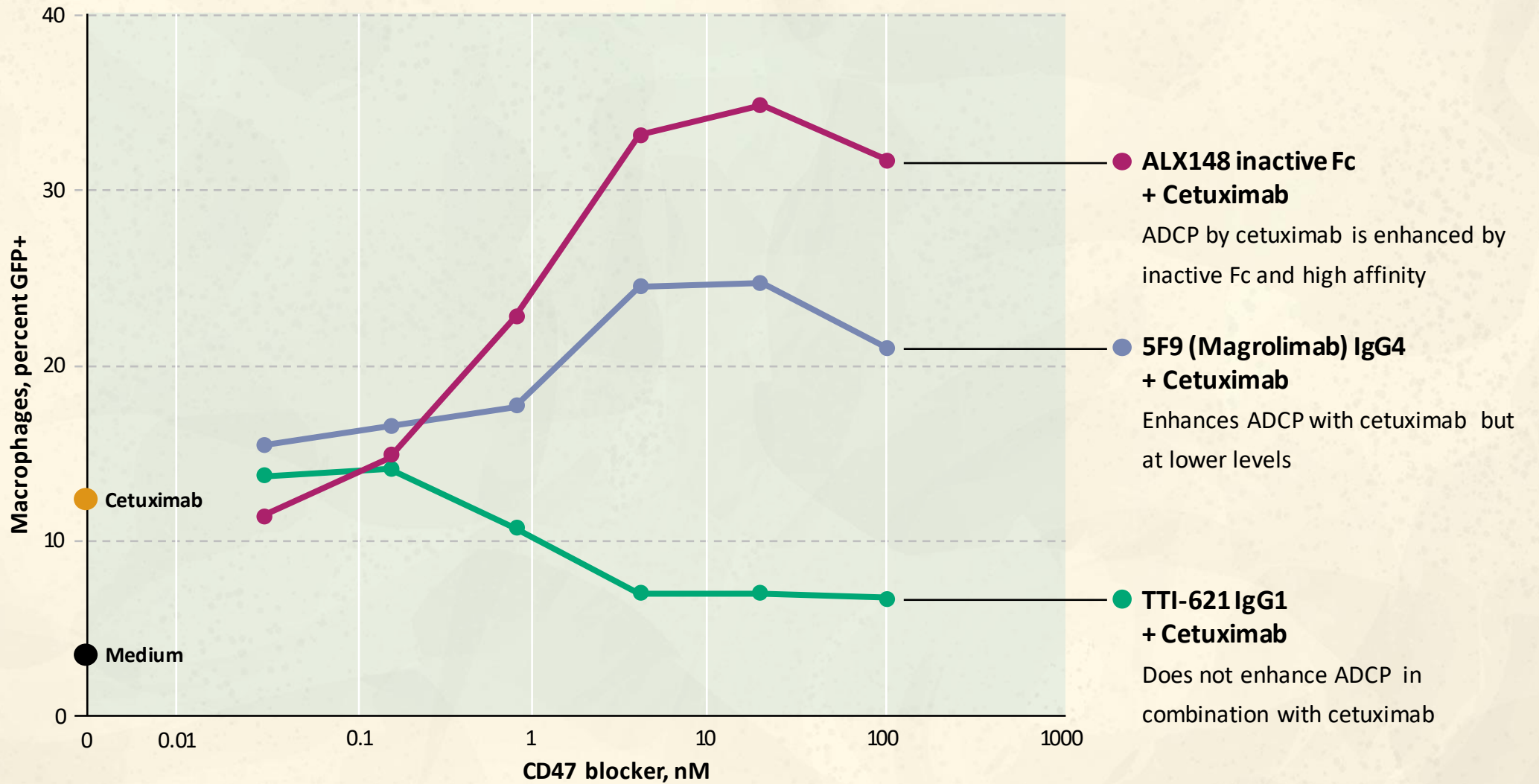
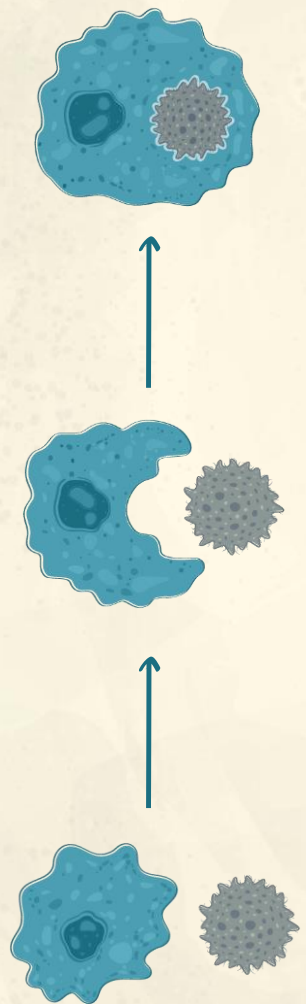


CD-1 mice received 30 mg/kg IV single dose

\*\*\*\*p<0.0001, \*\*\*p<0.001



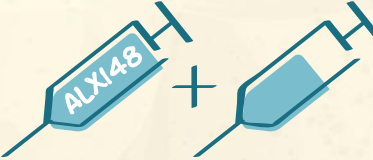
Inactive Fc is the core determinant of safety profile

# ALX148 DEMONSTRATES SUPERIOR PHAGOCYTOSIS





# ALX148 DEMONSTRATES FAVORABLE TOLERABILITY PROFILE

	 Preclinical	 Single agent	 Combinations
Highest administered dose	<b>100 mg/kg<sup>1</sup></b> with no observable adverse events	<b>30 mg/kg Q2W</b> No evidence of dose-dependent cytopenias	<b>15 mg/kg QW</b> currently dosed <b>60 mg/kg Q4W</b> planned

<sup>1</sup>100 mg/kg of ALX148  $\cong$  200 mg/kg of a typical antibody

ALX148  
has not yet reached a  
maximum tolerated  
dose

# PIPELINE

	Indication	IND filing preparation	IND submitted	Phase 1	Phase 2	Phase 3	Fast track
HEMATOLOGY	<b>MDS</b> Myelodysplastic Syndromes	azacitidine					
	<b>AML</b> Acute Myeloid Leukemia	azacitidine + venetoclax					
	<b>NHL</b> Non-Hodgkin Lymphoma	Rituxan					
SOLID TUMORS	<b>HNSCC</b> Head and Neck Squamous Cell Carcinoma	Keytruda					
		Keytruda + 5FU + platinum					✓
	<b>Gastric/GEJ</b> Gastroesophageal Junction Cancer	Herceptin					
		Herceptin + Cyramza + paclitaxel					✓

>150

patients dosed  
with ALX148  
since 2017

# ALX148 DEMONSTRATES CONSISTENT TOLERABILITY PROFILE

## Treatment related adverse events

	ALX148 + Rituxan (N=33)		ALX148 + Keytruda (N=52)		ALX148 + Herceptin (N=30)	
	Total n (%)	≥Grade 3	Total n (%)	≥Grade 3	Total n (%)	≥Grade 3
Fatigue	3 (9.1%)	-	6 (11.5%)	-	9 (30.0%)	-
Rash	6 (18.2%)	-	5 (9.6%)	-	-	-
AST increased	-	-	9 (17.3%)	-	-	-
Platelets decreased	-	-	4 (7.7%)	2 (3.8%)	5 (16.7%)	2 (6.7%)
ALT increased	-	-	7 (13.5%)	1 (1.9%)	-	-
Pruritus	-	-	5 (9.6%)	-	3 (10.0%)	-
Pyrexia	-	-	3 (5.8%)	-	3 (10.0%)	-
Decreased appetite	-	-	2 (3.8%)	-	3 (10.0%)	-
Anemia	2 (6.1%)	1 (3.0%)	5 (9.6%)	1 (1.9%)	2 (6.7%)	-
Infusion reaction	-	-	4 (7.7%)	-	-	-
Neutropenia / Neutrophil count decr	2 (6.1%)	2 (6.1%)	2 (3.8%)	1 (1.9%)	2 (6.7%)	2 (6.7%)
Nausea	2 (6.1%)	-	2 (3.8%)	-	2 (6.7%)	-
Alkaline phosphatase incr	-	-	3 (5.8%)	-	-	-
Arthralgia	-	-	3 (5.8%)	-	-	-
WBC decreased	-	-	3 (5.8%)	-	-	-
Myalgia	-	-	2 (3.8%)	-	-	-

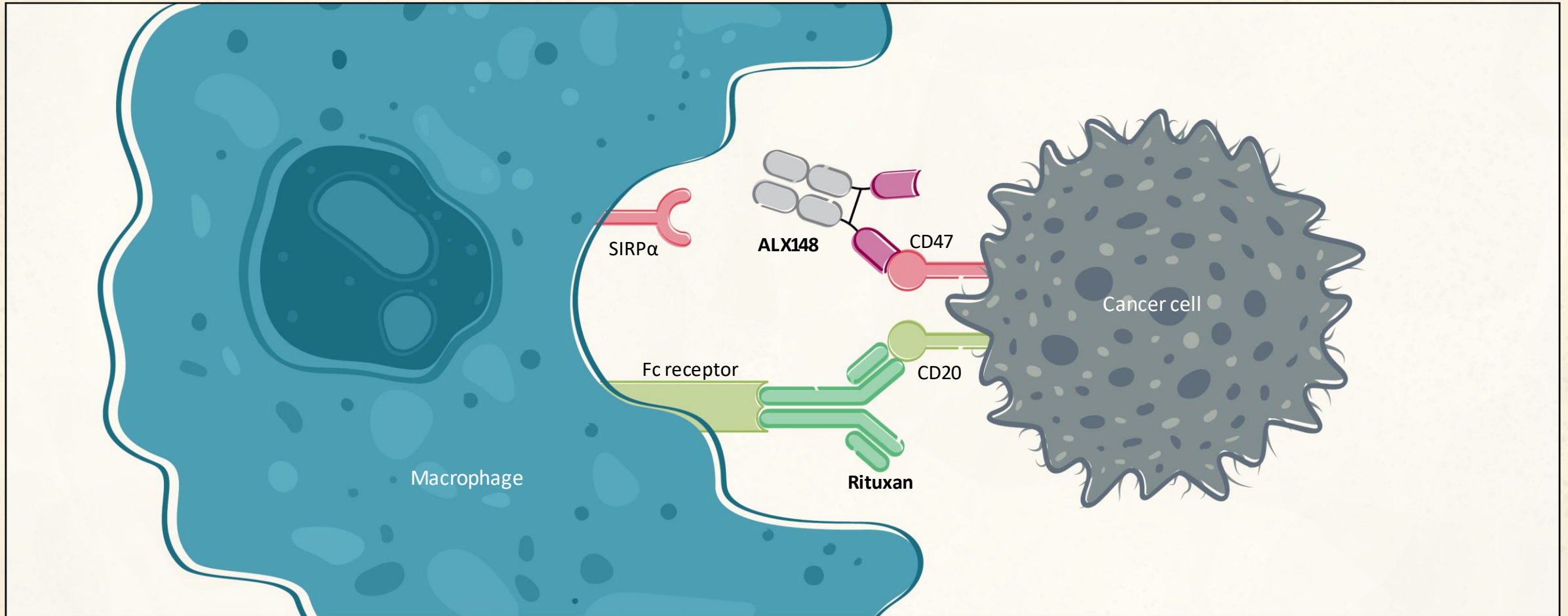
Tolerability profile  
may enable broad  
combination potential

Treatment related adverse events occurring in ≥2 subjects in all histologies at 10 & 15 mg/kg QW. Data Cutoff 1 April 2020.



# NHL TRIAL: ALX148 + RITUXAN MECHANISM OF ACTION

ALX148  
in  
NHL



**ALX148 increases phagocytosis in combination with Rituxan**

# NHL TOLERABILITY

ALX148  
in  
NHL

Selected Hematologic, Treatment Related Adverse Events	ALX148 + Rituxan (N=33) <sup>1</sup>		CC-90002 + Rituxan (n=26) <sup>2</sup>		5F9 (magrolimab) + Rituxan (n=115) <sup>3</sup>	
	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%

<sup>1</sup>As of 1 April 2020

<sup>2</sup>Abstract 4089 ASH 2019

<sup>3</sup>Abstract S867 EHA 2019

ALX148's  
Tolerability profile  
compares favorably to  
other CD47 blockers

# MAGROLIMAB NHL RESPONSE RATES AND DOSING

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

Reduced dosing led to  
reduced overall  
response rate in NHL

ORR = overall response rate.  
CR = complete response rate.

Abstract S867 EHA 2019



# NHL PROOF-OF-PRINCIPLE TRIAL

ALX148  
in  
NHL

## Phase 1b NHL cohorts



Relapsed/Refractory NHL,  
prior regimen with Rituxan



Treatment:

**ALX148** 10 or 15 mg/kg  
once a week (QW)

+

**Rituxan** 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%	11	54.6%
Aggressive	15	33.3%	7	42.9%
Indolent	7	57.1%	4	75.0%

As of 1 April 2020

**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

# NON-HODGKIN LYMPHOMA PROOF-OF-PRINCIPLE SUMMARY



**Other agents in CD47 class  
reduced dosing leading to reduced  
responses**



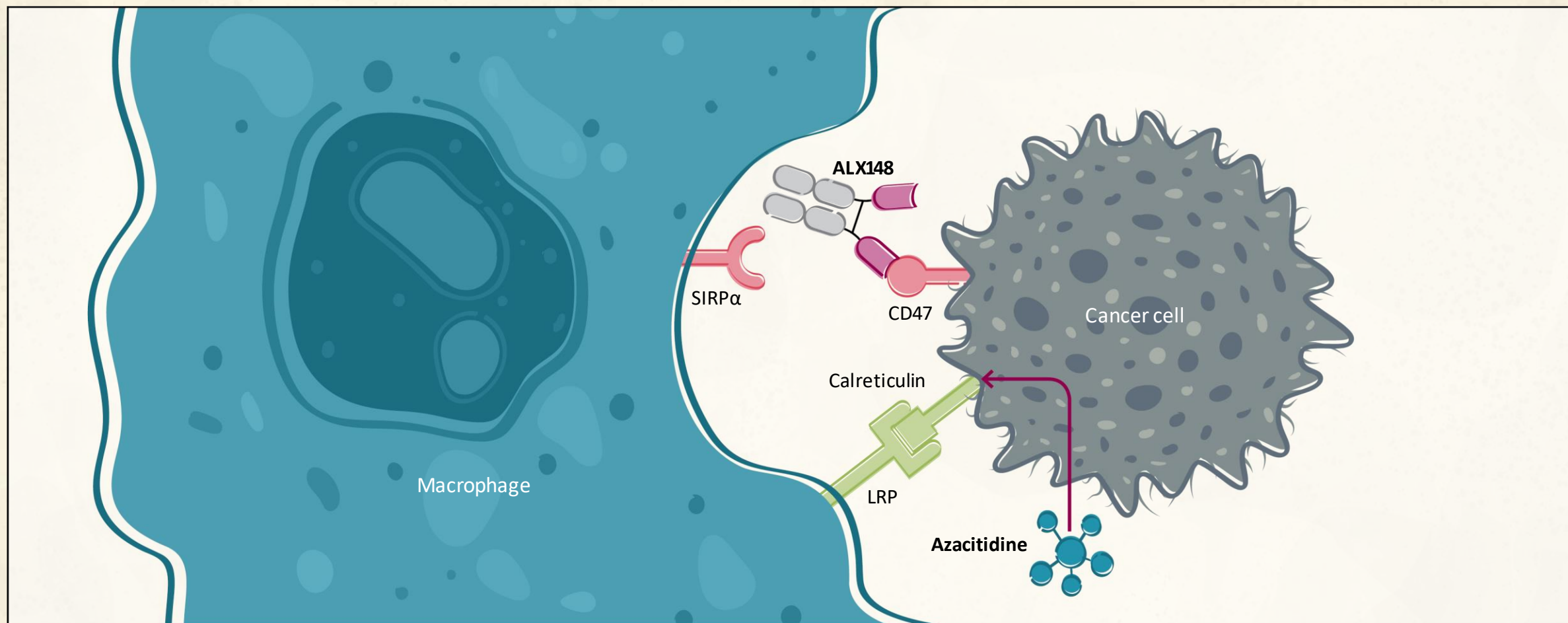
**Higher dosing enabled by  
ALX148 tolerability profile**



**Higher dosing of ALX148  
led to higher responses**

# MDS TRIAL: ALX148 + AZACITIDINE MECHANISM OF ACTION

ALX148  
in  
MDS

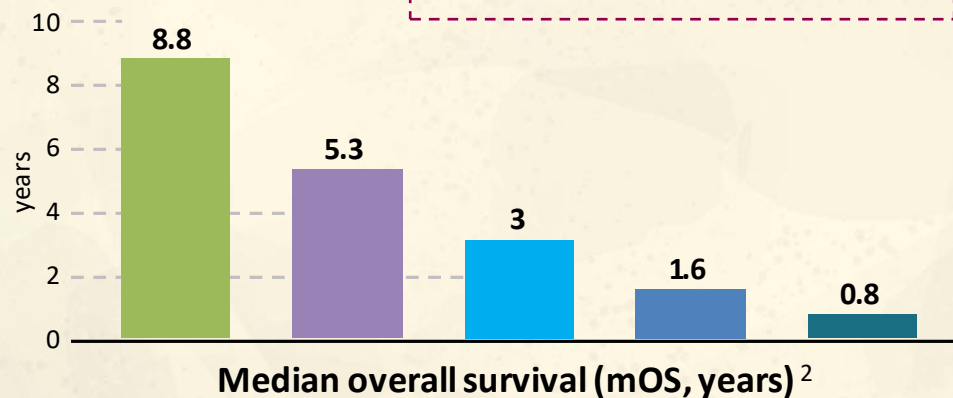
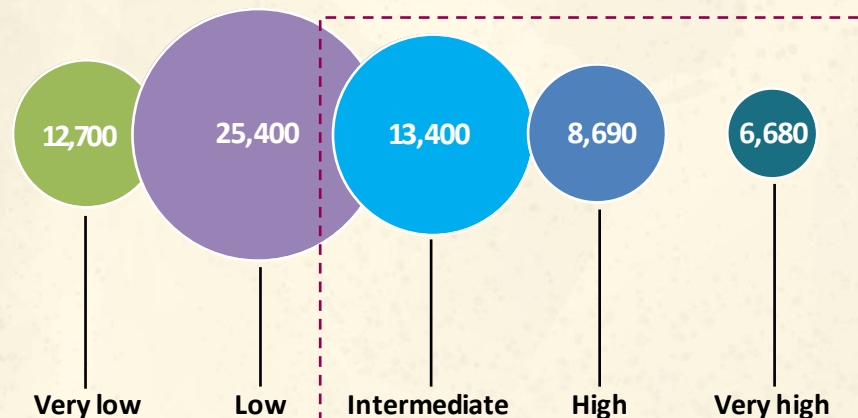


ALX148 increases pro-phagocytic signal provided by azacitidine

# MDS OPPORTUNITY

ALX148  
in  
MDS

US Diagnosed Prevalent Cases <sup>1</sup>



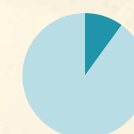
## Higher Risk (HR) MDS



Bone marrow transplant

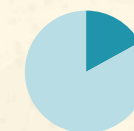


Azacitidine,  
Decitabine



**<10%**

Receive allogeneic transplant<sup>3</sup>



**17%**

Treated with azacitidine achieve a CR<sup>4</sup>

## Overall MDS



Nearly all pts transfused due to cytopenias



**41 of 100**

Will die from cytopenia-related causes<sup>5</sup>

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



# 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

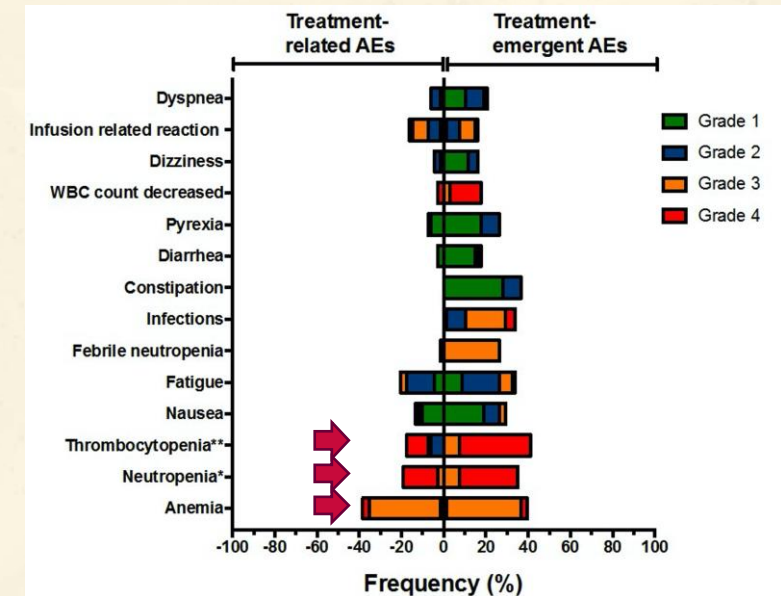
## Magrolimab with azacitidine

Sallman, ASCO 2020

Best Overall Response	R/R AML/MDS 5F9 mono N=10
ORR	1 (10%)
CR	➔ 0
CRi	0
PR	0
MLFS/ marrow CR	1 (10%)
HI	-
SD	7(70%)
PD	2 (20%)

## Magrolimab monotherapy

Sallman, ASCO 2019



All grade TRAEs: 38% Anemia  
19% Neutropenia  
18% Thrombocytopenia

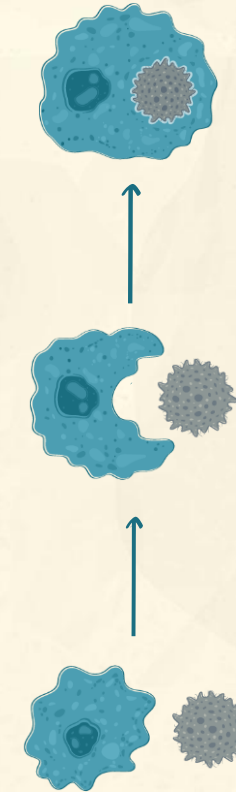
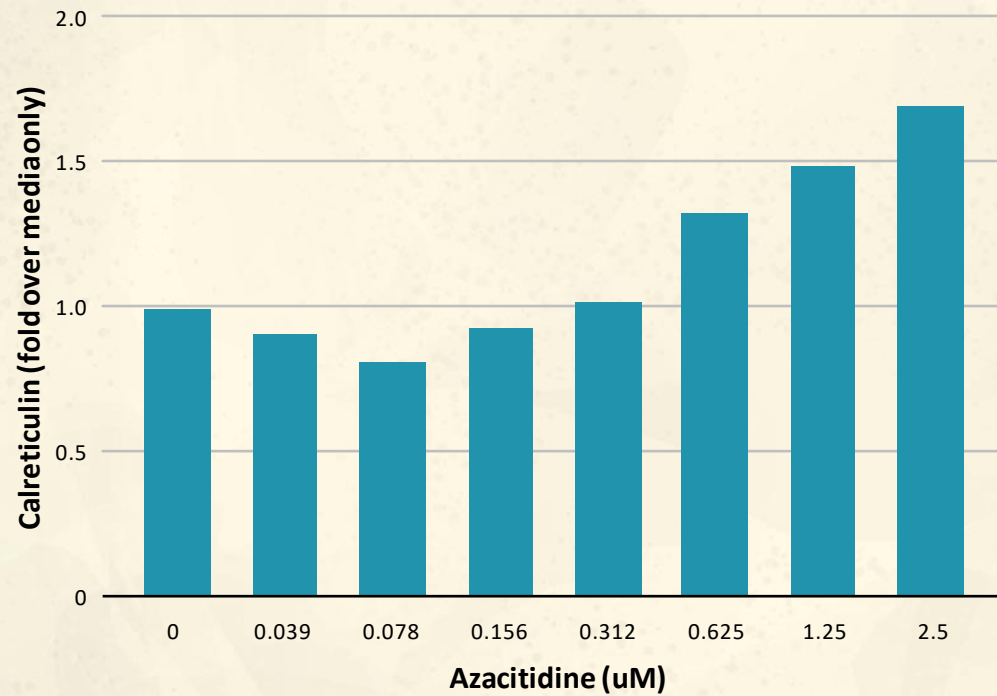
Sallman, ASCO 2020

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

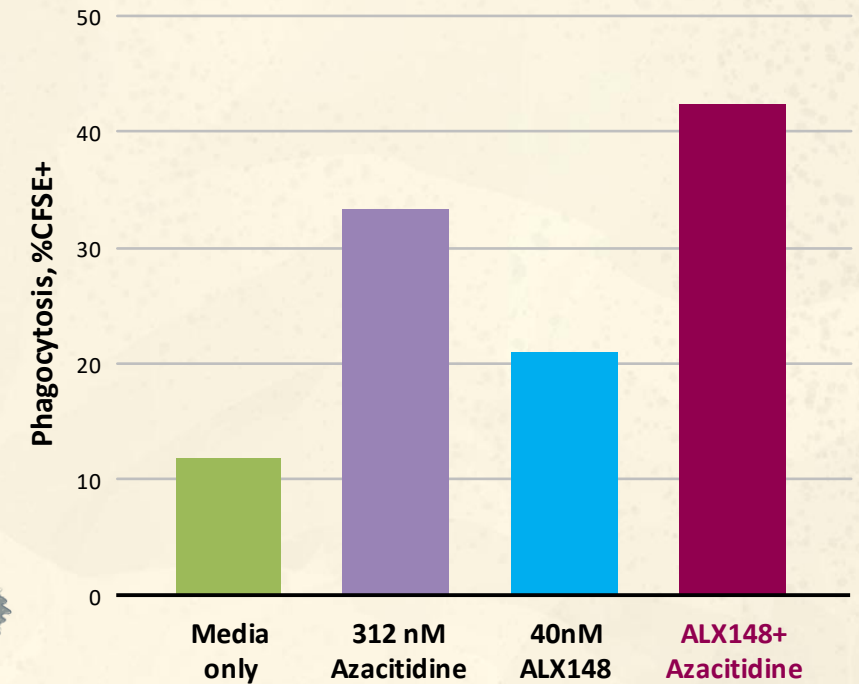
# PRECLINICAL: ALX148 INCREASES PHAGOCYTOSIS OF BACKBONE MDS DRUG, AZACITIDINE

ALX148  
in  
MDS

Calreticulin levels on HL60 Cells



Phagocytosis of HL60 Cells

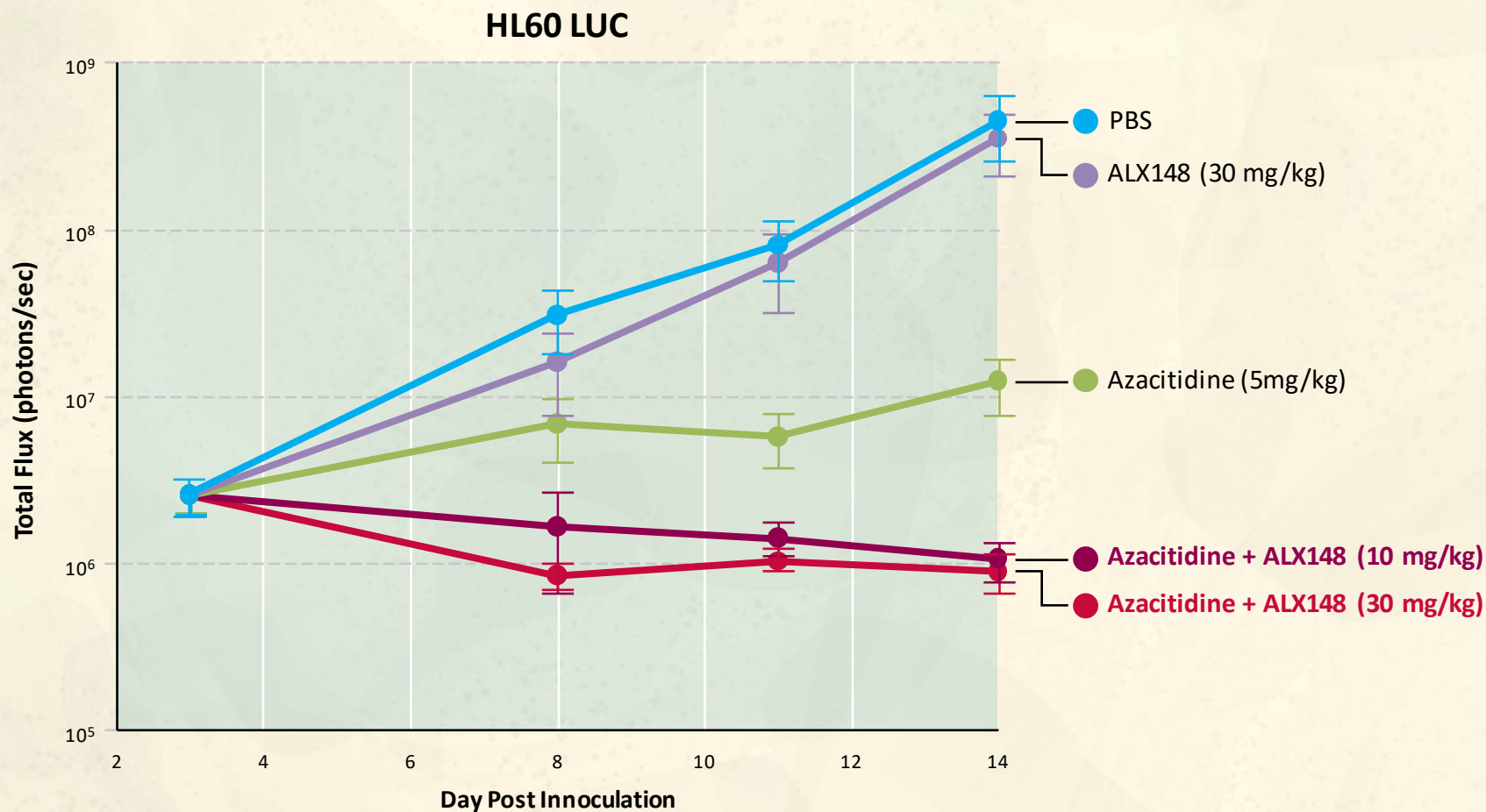


Azacitidine induces calreticulin display.

ALX148 increases phagocytosis in combination with azacitidine.

# ALX148 INCREASES TUMOR INHIBITION OF AZACITIDINE

ALX148  
in  
MDS

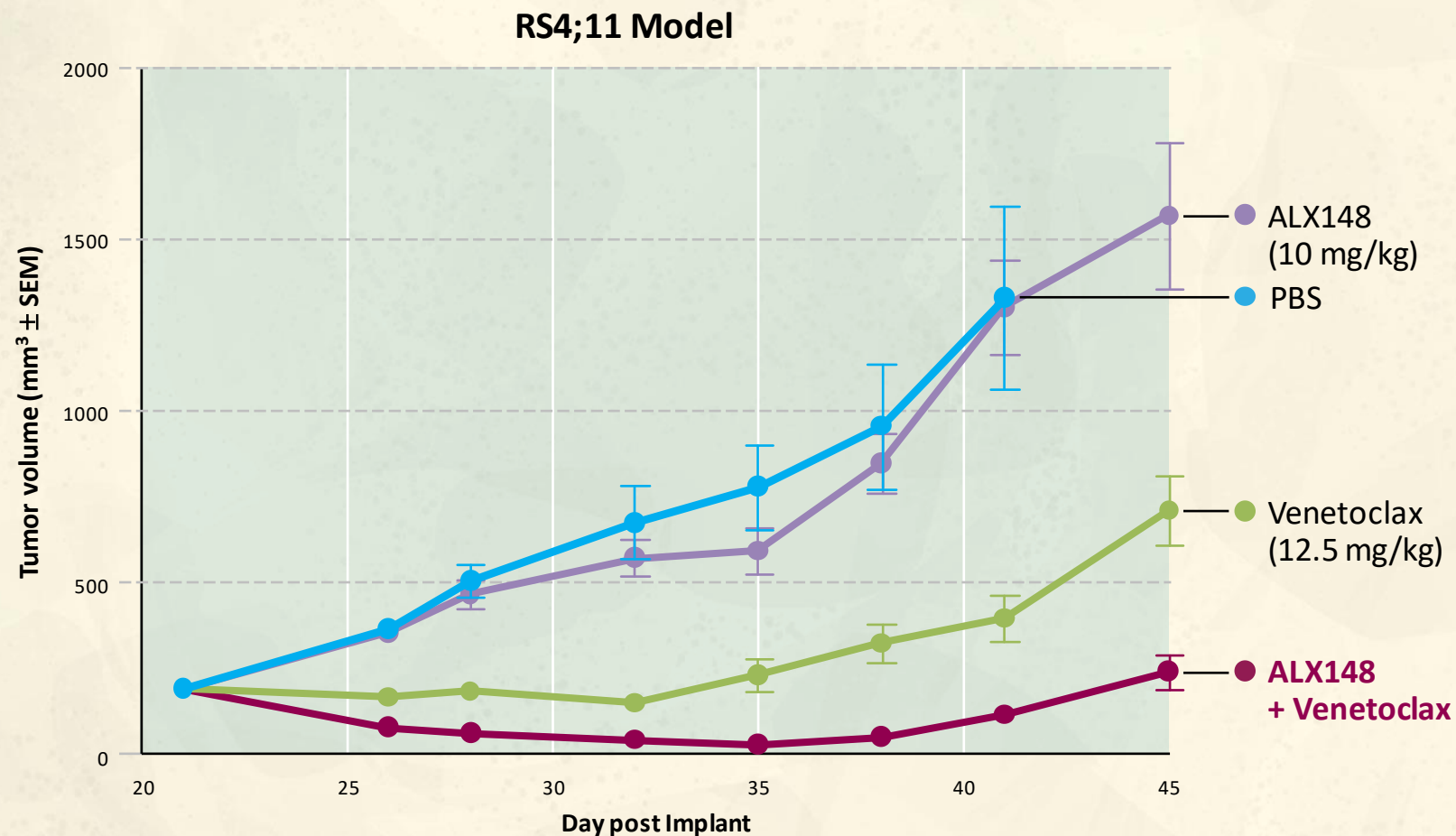


Combination  
opportunity in MDS  
and AML

Disseminated AML mouse model

# ALX148 INCREASES TUMOR INHIBITION OF VENETOCLAX

ALX148  
in  
MDS



Combination  
opportunity  
in AML



# MDS TRIAL PLANS

## Phase 1 trial



Patients:

**N=~24**

R/R and treatment naïve  
IPSS-R intermediate,  
high, very high risk MDS



Treatment:

**ALX148**

20 mg/kg (Q2W)  
30 mg/kg (Q2W)  
or 60 mg/kg (Q4W)  
+

**Azacitidine**

75 mg/m<sup>2</sup> daily for 7 days  
of 28 day cycle



Endpoint:

- safety of combination

## Phase 2 trial



Patients:

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



Treatment:

**ALX148**

Recommended phase 2 dose  
+  
**Azacitidine**

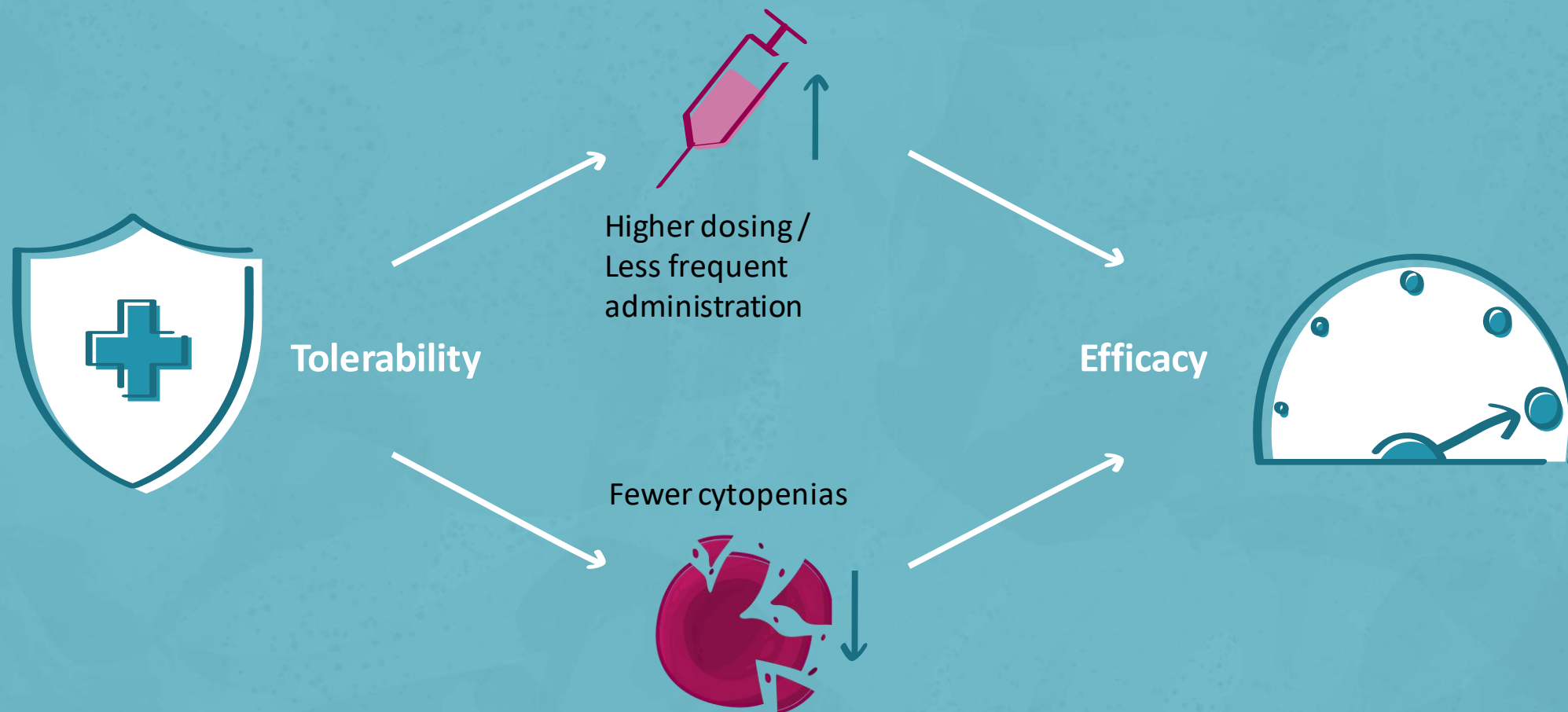


Endpoint:

- objective response rate (CR+PR)

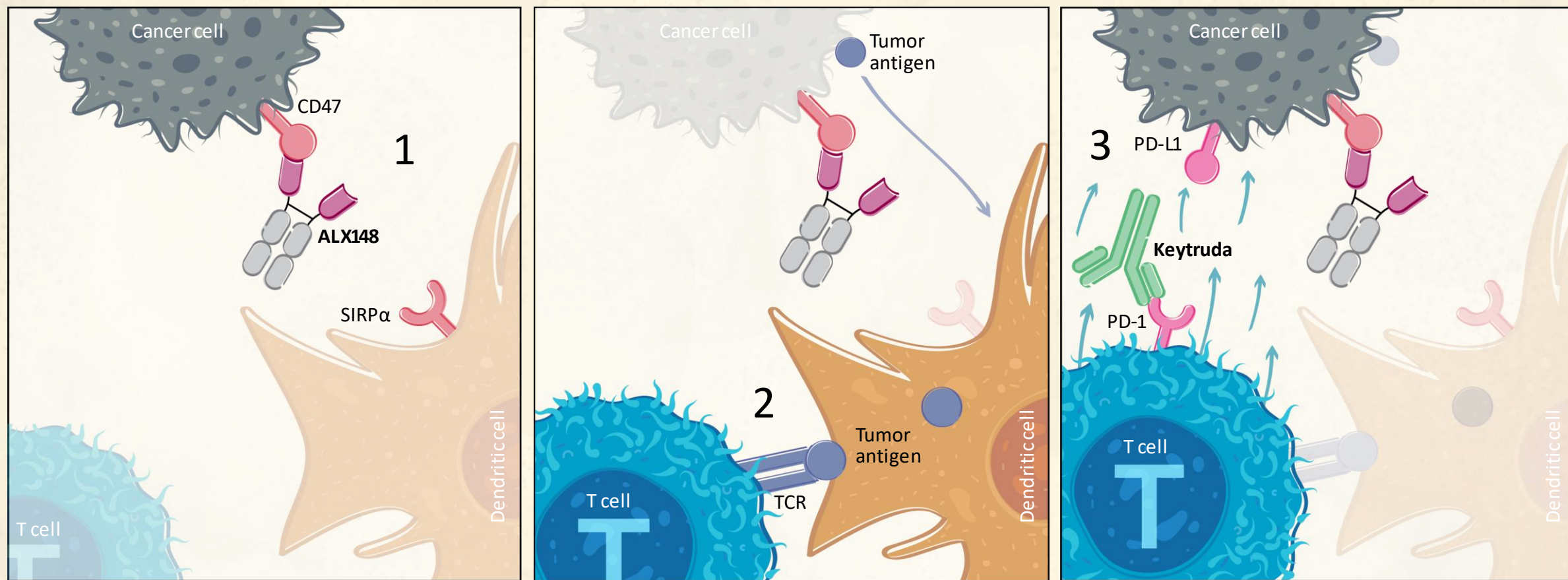
# ALX148 DIFFERENTIATION POTENTIAL ENABLED BY TOLERABILITY

ALX148  
in  
MDS



# HNSCC TRIAL: ALX148 + KEYTRUDA MECHANISM OF ACTION

ALX148  
in  
HNSCC



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

# HNSCC STANDARD OF CARE & OPPORTUNITY

	ORR	mPFS (months)	mOS (months)	≥Gr3 TRAEs
1L Keytruda + chemo <sup>1</sup> (KEYNOTE 048)	36%	4.9	13.0	72% <sup>2</sup>
Keytruda monotherapy (KEYNOTE 048)	17%	2.3	11.5	17%
2L Keytruda monotherapy (KEYNOTE 040)	15%	2.1	8.4	13%

- Keytruda monotherapy ORR of 15% in 2L
- Significant unmet need
- Increasing use of Keytruda monotherapy<sup>3</sup>
- Keytruda 2019 WW Sales \$11.1B<sup>4</sup>

<sup>1</sup>5FU + cisplatin or carboplatin.

<sup>2</sup>83% occurrence in chemo control arm.

<sup>3</sup>Wiley 2019, Real-world treatment patterns for patients with metastatic head and neck squamous cell carcinoma treated with immuno-oncology therapy.

<sup>4</sup>Merck 10-K 26Feb2020



# HNSCC TRIAL

ALX148  
in  
HNSCC

## Phase 1b HNSCC trial:



Response evaluable patients

**N=20:** recurrent/metastatic HNSCC, at least one prior systemic therapy



Treatment:

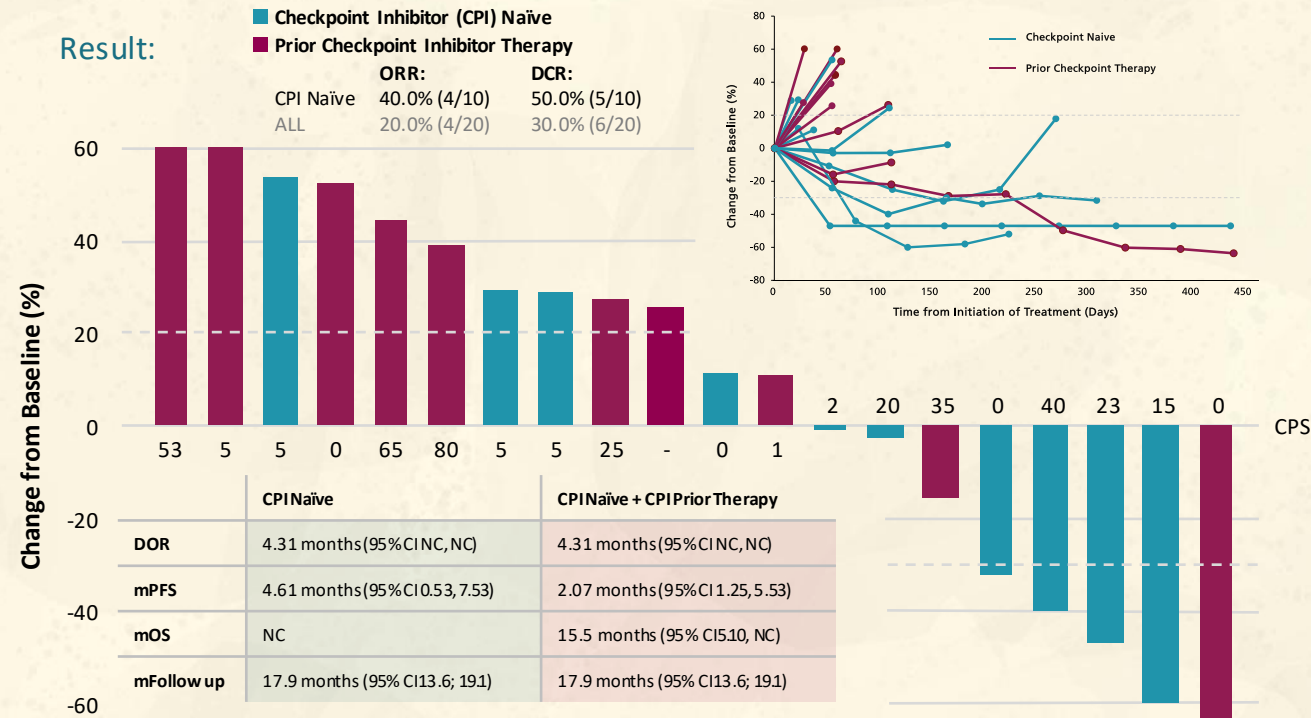
**ALX148** 10 mg/kg once a week (QW)  
+  
**Keytruda**  
200 mg every three weeks (Q3W)



Endpoints:

- maximum tolerated dose
- anti-cancer activity

Result:



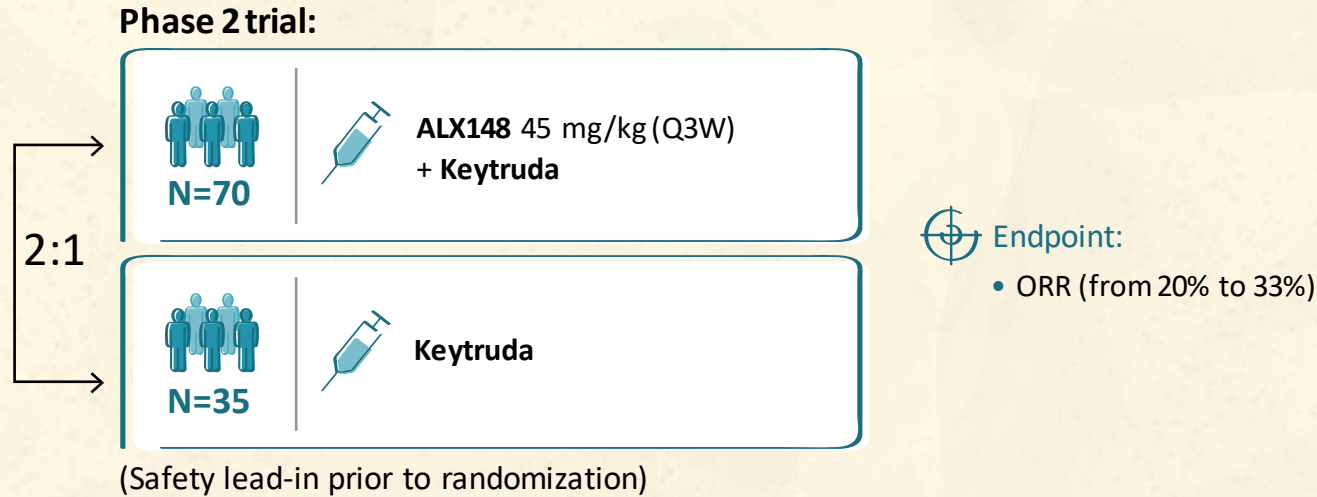
**FDA granted ALX148 Fast Track designation for first-line treatment of patients with HNSCC**

**Notes:** Data Cutoff 1 April 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.

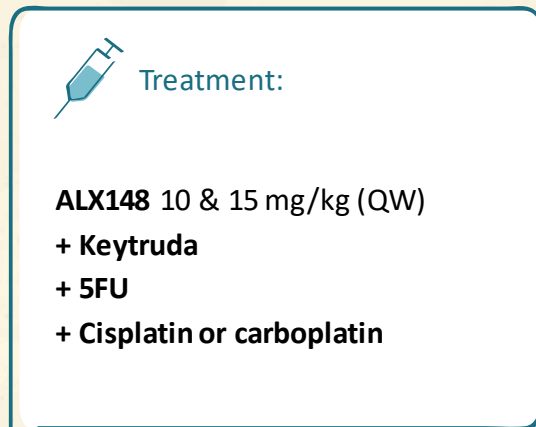
# DEVELOPMENT PLAN – FIRST LINE HEAD & NECK CANCER

ALX148  
+  
Keytruda

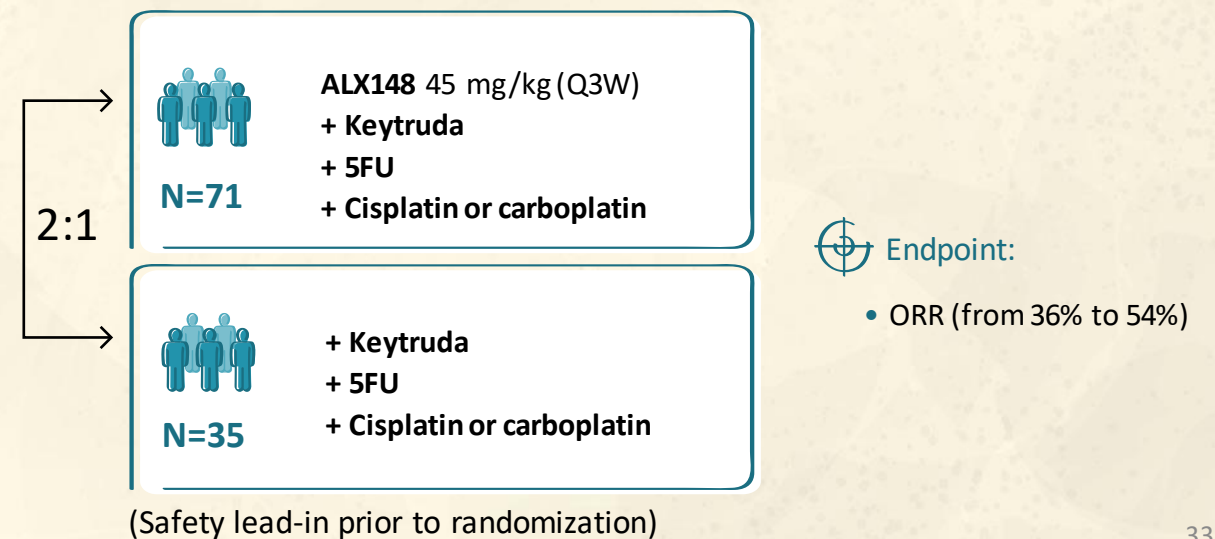


ALX148  
+  
Keytruda  
+  
Chemo

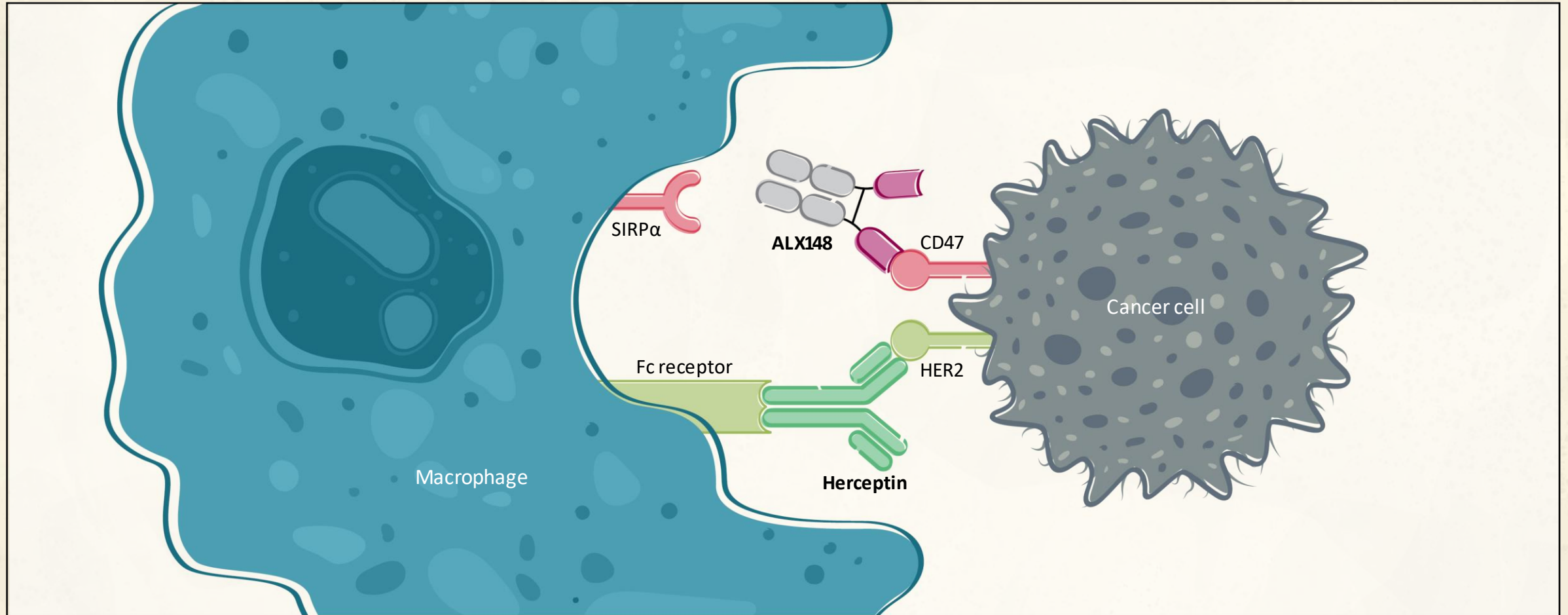
## Phase 1b dose confirmation:



## Phase 2 trial:



# GASTRIC TRIAL: ALX148 + HERCEPTIN MECHANISM OF ACTION



ALX148 increases phagocytosis in combination with Herceptin

# GASTRIC/GEJ CLINICAL TRIAL

ALX148  
in  
GASTRIC

## Phase 1b Gastric/GEJ trial:

 Response  
evaluable patients

**N=19** R/R HER2 positive gastric/GEJ

 Treatment:

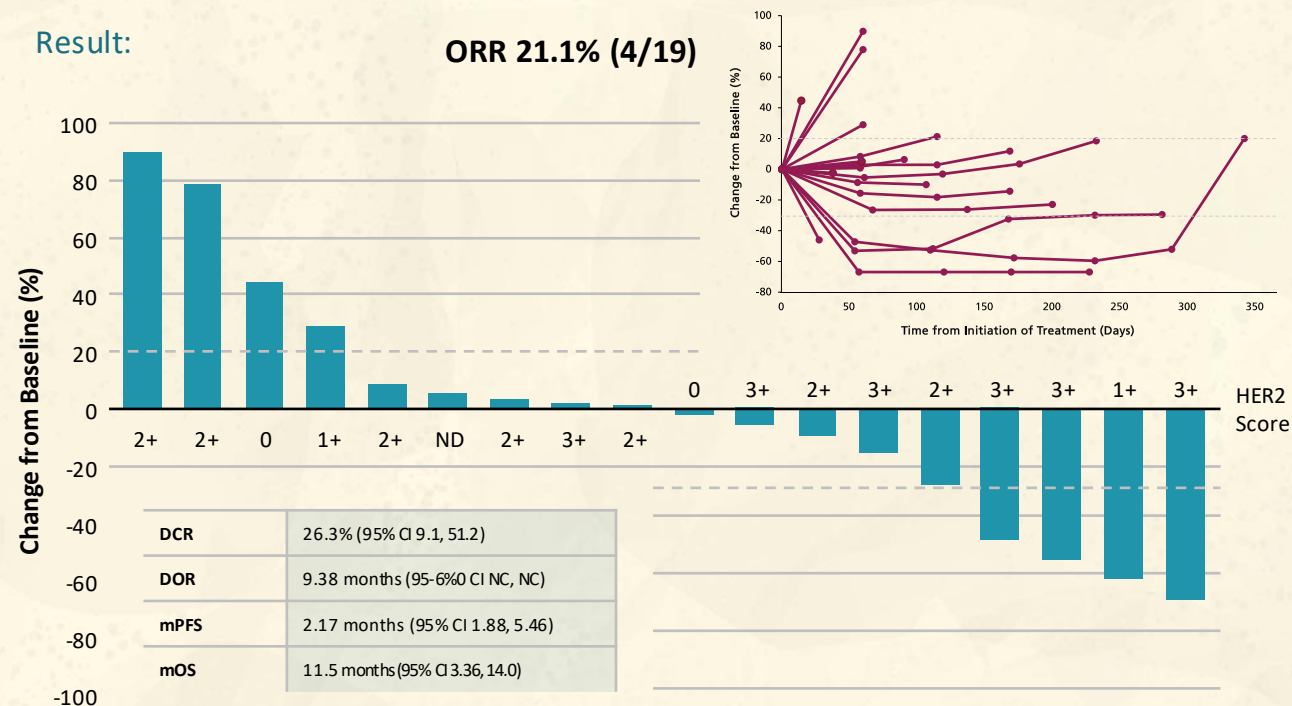
**ALX148** 10 mg/kg once a week (QW)  
+ **Herceptin**  
8 mg/kg once, then  
6 mg/kg every three weeks (Q3W)

 Endpoints:

- maximum tolerated dose
- anti-cancer activity

Result:

**ORR 21.1% (4/19)**



**FDA granted ALX148 fast track designation for second-line treatment of HER2-positive gastric/GEJ carcinoma**

**Notes:** Data Cutoff 1 April 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.



## Ongoing Phase 1b higher dose + chemo trial:



Patients:

R/R HER2 positive gastric/GEJ, 2L or greater with prior Herceptin treatment



Treatment:

**ALX148** 10 and 15 mg/kg (QW)  
+ **Herceptin**  
+ **Cyramza**  
+ **Paclitaxel**



Endpoint:

- safety of combination

## Planned Phase 2:



Patients:

2L or greater HER2 positive gastric/GEJ with prior Herceptin treatment



Treatment: (N~50)

**ALX148** 45 mg/kg (Q3W)

+ **Herceptin**

+ **Cyramza**

+ **Paclitaxel**



Endpoint:

- ORR (from 30% to 50%)

# CLINICAL SUMMARY



**ALX148 tolerability profile  
enables combination with  
range of agents**

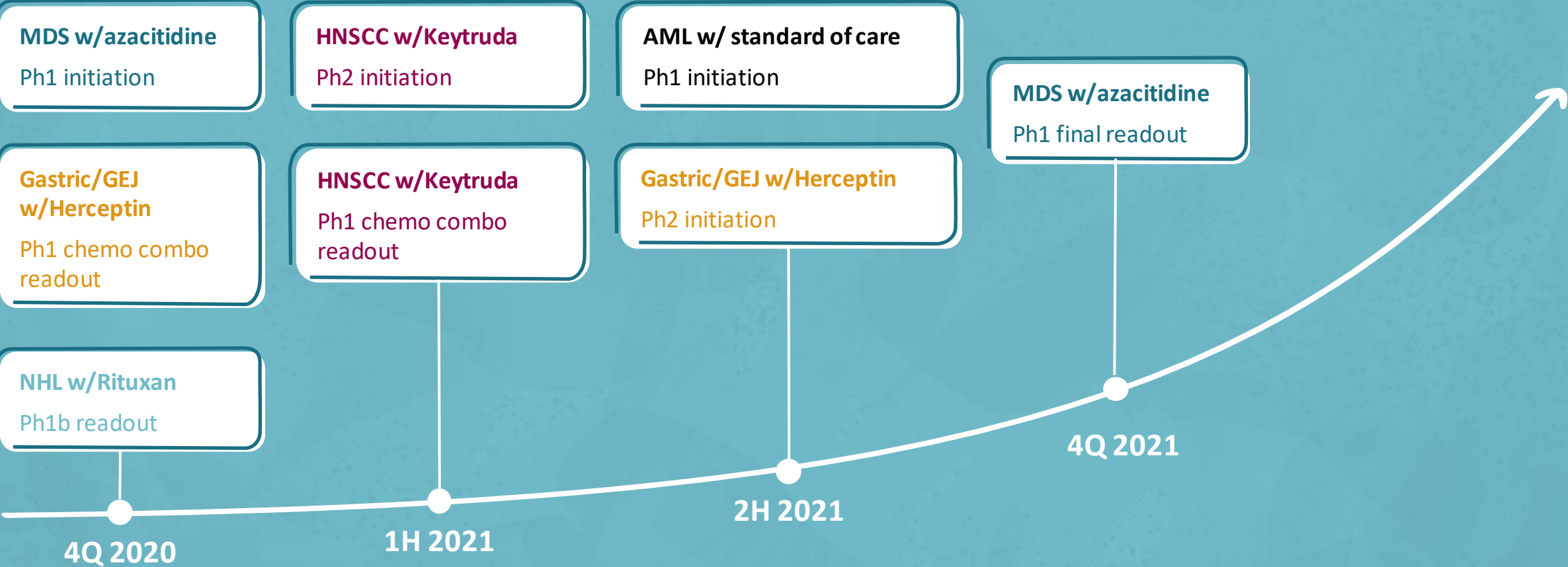


**Higher dosing and  
smaller molecular weight facilitate  
tumor penetration for greater  
efficacy**



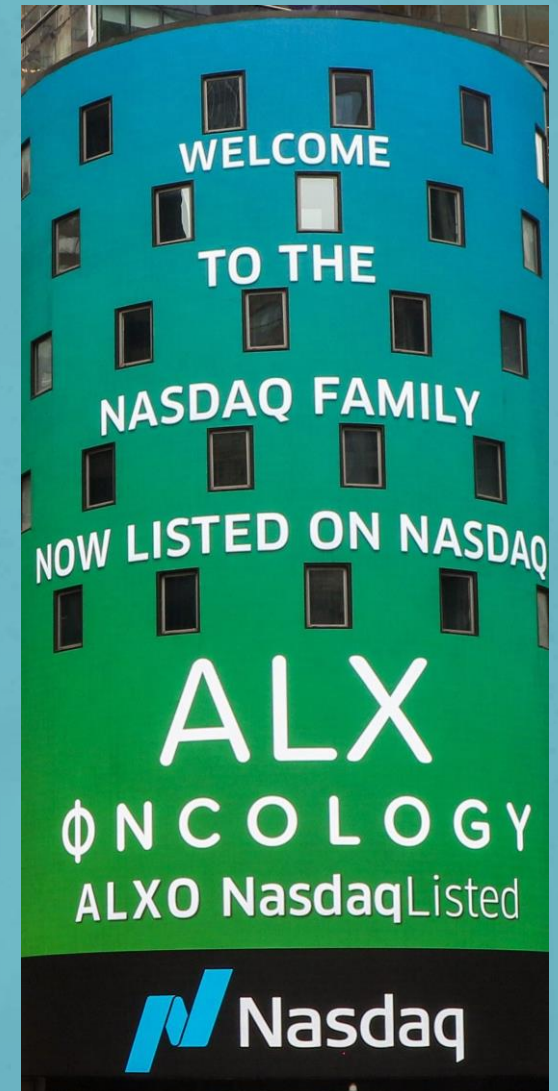
**ALX148 is the  
only CD47 blocker to show  
encouraging response data in solid  
tumor indications**

# DEVELOPMENT PROGRESS AND FUTURE PLANS



## FINANCIAL INFORMATION

- Cash and cash equivalents as of June 30, 2020:
  - \$98.1 million
- Consummated IPO on July 21, 2020
  - Gross proceeds of \$185.7 million
  - 9.775 million shares at \$19 per share
  - Estimated net proceeds of \$169.0 million, which is after deducting underwriting discounts and commissions, and offering-related expenses
  - Expected cash runway through 2023





# WHY INVEST IN ALX ONCOLOGY



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



**World class team and investor syndicate**



**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**