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TEAM



Jaume Pons, PhD President and CEO





Sophia Randolph, MD, PhD Chief Medical Officer





Jeanne JewChief Business Officer





Peter GarcíaChief Financial Officer





Hong I. Wan, PhD Consulting Chief Scientific Officer



Wyeth[®]



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

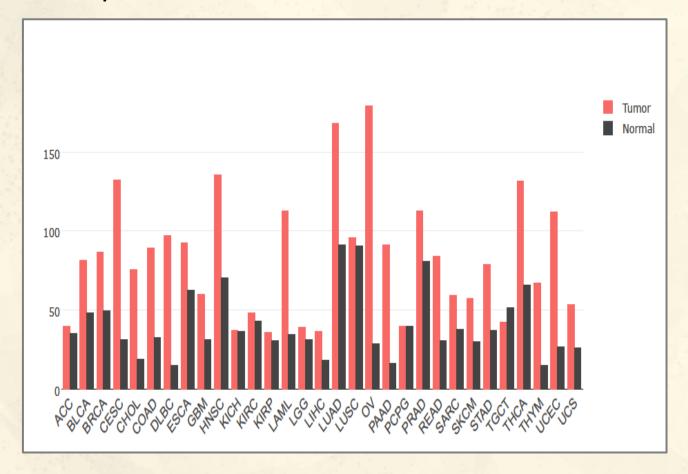
Early-stage antibody candidate for systemic CpG delivery (SIRP α TRAAC*)

• IND by end of 2022

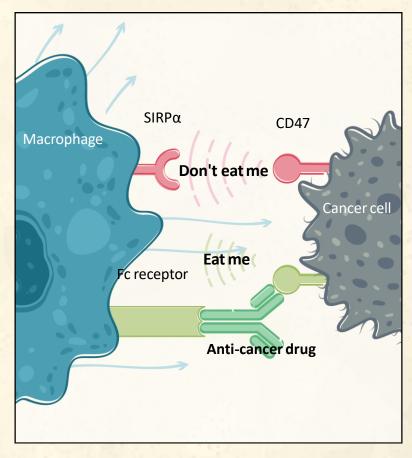


CD47: TUMOR ASSOCIATED ANTIGEN (TAA)- MYELOID CHECKPOINT DUALITY

TAA-Expression levels on cancer and normal cells



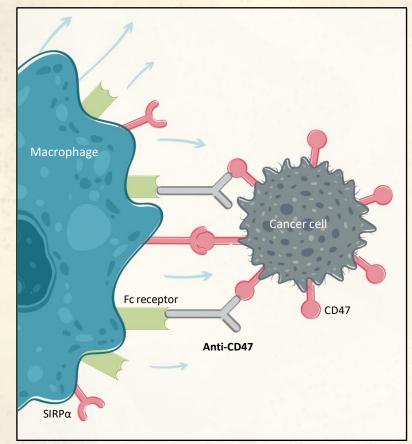
Checkpoint Mechanism: "do not eat me"

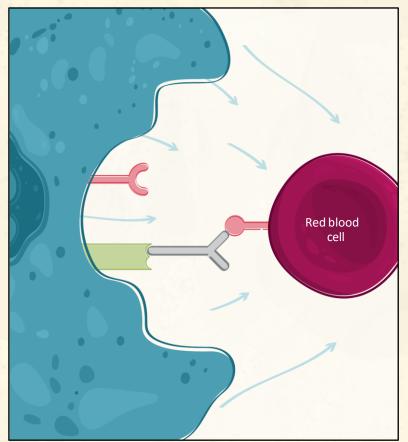


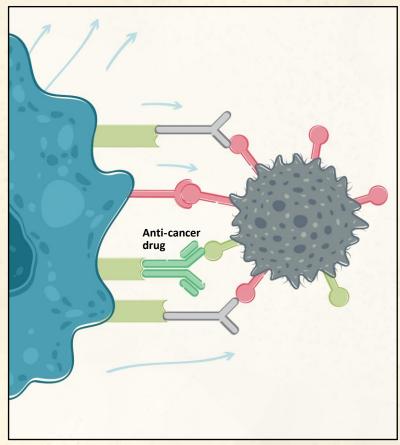


TARGETING CD47 AS TUMOR ASSOCIATED ANTIGEN

But also targets normal cells







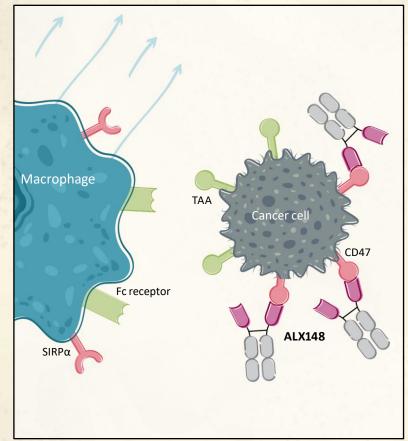
Anti CD47 with active Fc directly targets cancer cells



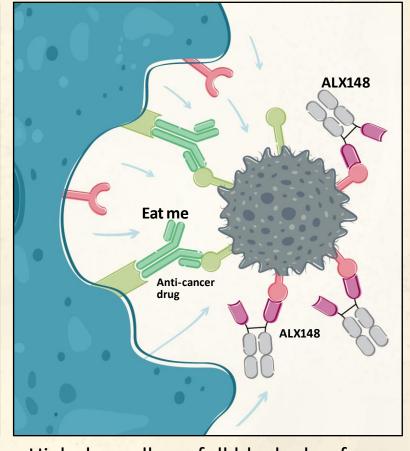
Dose limitations prevent full blockade of CD47 and active Fc competes with combo drug

TARGETING CD47 AS CHECKPOINT: ALX ONCOLOGY'S APPROACH

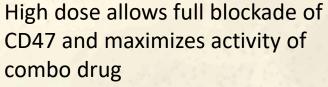
It spares normal cells



Inactive Fc **ALX148** Red blood cell



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





ALX148: METICULOUSLY DESIGNED CD47 BLOCKER



Inactive Fc domain eliminates binding activity



No dose dependent cytopenia

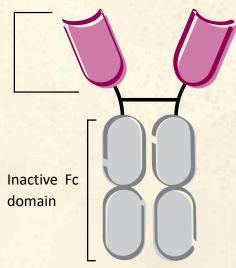
Presence of Fc domain ensures slow clearance and long half-life



Less frequent dosing

Designed for safety and efficacy

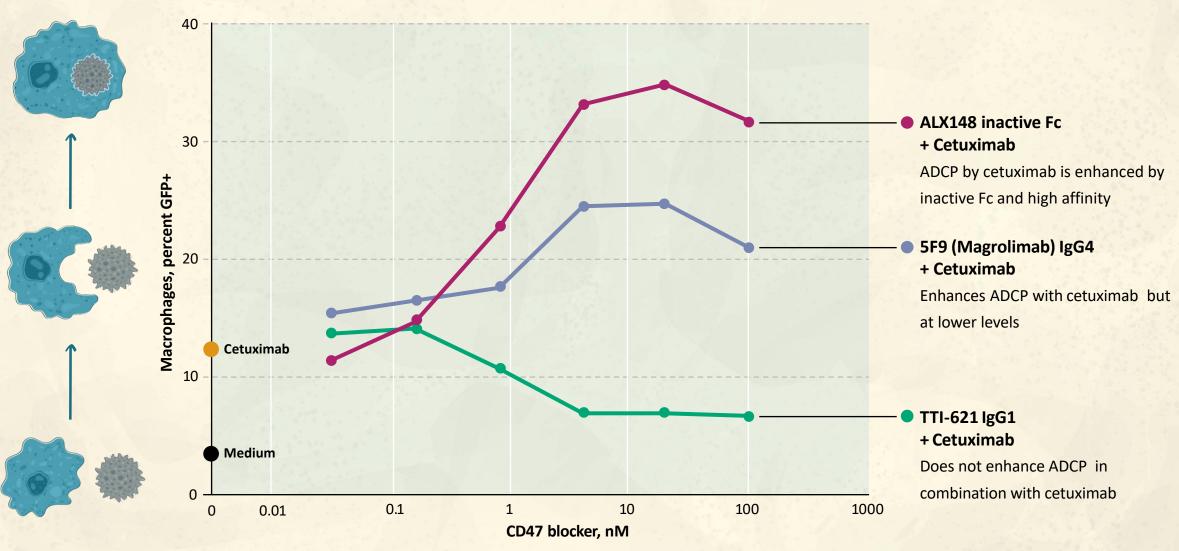
High affinity CD47 binding domains of SIRPα



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

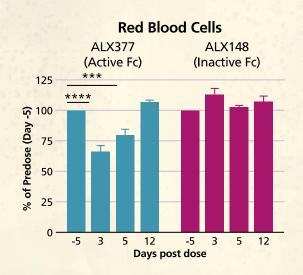


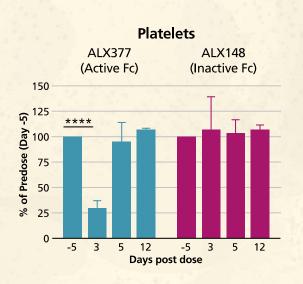
ALX148 DEMONSTRATES SUPERIOR PHAGOCYTOSIS

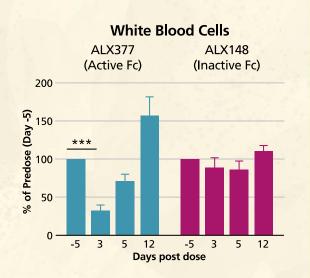




INACTIVE FC SHOWS REDUCED CYTOPENIA IN MICE IN VITRO







Inactive Fc is the core determinant of safety profile

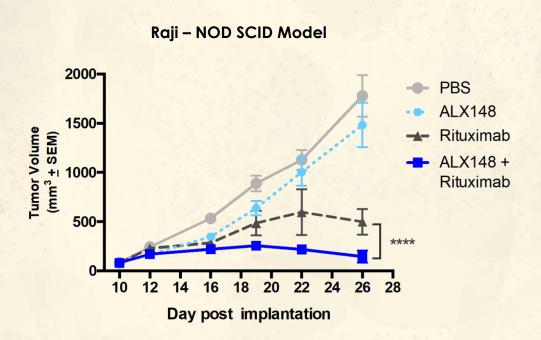
CD-1 mice received 30 mg/kg IV single dose

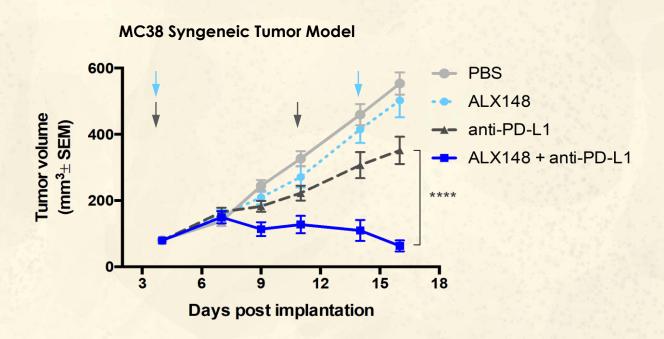
****p<0.0001, ***p<0.001

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



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



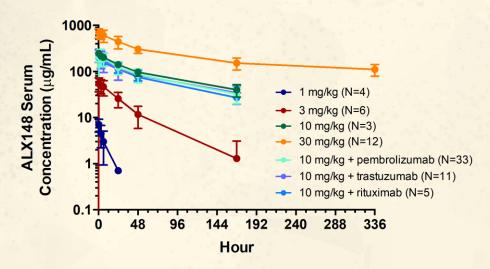


Mouse cross-reactivity allows for better clinical translation of preclinical models: presence of CD47 sink and mouse models with intact immune system



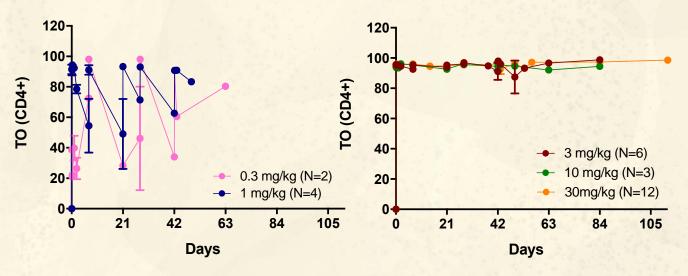
ALX148 CLINICAL PHARMACOKINETICS AND CD47 TARGET OCCUPANCY

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.

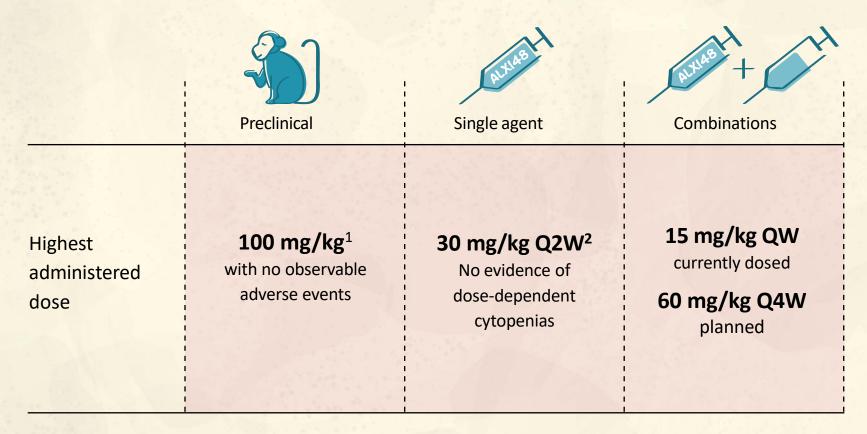
CD47 Target Occupancy by ALX148



- 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



ALX148



has not yet reached a maximum tolerated dose

 $^{^1100~\}text{mg/kg}$ of ALX148 $\cong 200~\text{mg/kg}$ of a typical antibody

²Single agent safety, ALX presentation, ASCO 2018 poster

ALX PIPELINE

	Indi	cation	Combination Agent	Preclinical	IND stage	Phase 1	Phase 2	Phase 3	Fast Track	Collaboration Partner
		HNSCC	Keytruda							MERCK
S	TUMORS	Head And Neck Squamous Cell Carcinoma	Keytruda + 5FU + Platinum						Ø	MERCK
Studies		GC	Herceptin							
nation	Gastric/Gastroesonhagea		Herceptin + Cyramza + paclitaxel							
Combination		Breast Cancer	Zanidatamab							zymeworks
ALX148	γĐ	MDS Myelodysplastic Syndromes	Azacitidine		1022					
4	HEMATOLOGY	AML Acute Myeloid Leukemia	Azacitidine + Venclexta							
	HE	NHL Non-Hodgkin's Lymphoma	Rituximab							
SIRPa- TRAAC*		Advanced Cancer								TALLAC

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



ALX148 DEMONSTRATES CONSISTENT TOLERABILITY PROFILE

Treatment related adverse events*		Herceptin chemo (N=14)		Herceptin =30)		Keytruda o (N=5)	ALX148 + (N=	-	ALX148 + (N=	
	Total n (%)	≥Grade 3	Total n (%)	≥Grade 3	Total n (%)	≥Grade 3	Total n (%)	≥Grade 3	Total n (%)	≥Grade 3
Fatigue	2 (14.0%)	-	9 (30.0%)	-	<u> </u>		6 (11.5%)	-	4 (12.1%)	-
Rash	3 (21.0%)	-	-	-		- **	5 (9.6%)	-	8 (24.2%)	-
AST increased	-	-	•	-	-	/ · · · · · · · · · · · · · · · · · · ·	9 (17.3%)	-	-	-
Platelets decreased	-	-	5 (16.7%)	2 (6.7%)	- 4/	_ ·	4 (7.7%)	2 (3.8%)	-	-
ALT increased	-	-	-	-	- Y//	-	7 (13.5%)	1 (1.9%)	-	-
Pruritus	2 (14.0%)	-	3 (10.0%)	-		-	5 (9.6%)	-	2 (6.1%)	-
Pyrexia	-	-	3 (10.0%)	-	2 - 7	-	3 (5.8%)	-	-	-
Decreased appetite	-	-	3 (10.0%)	-	- 3	-	2 (3.8%)	-	-	-
Anemia	-	-	2 (6.7%)	-		-	5 (9.6%)	1 (1.9%)	2 (6.1%)	1 (3.0%)
Infusion reaction	-	-	-	-		- "-	4 (7.7%)	-	-	-
Neutropenia / Neutrophil count decr	-	-	2 (6.7%)	2 (6.7%)			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	-	-	-	-	<u>-</u>	-	3 (5.8%)	-	-	-
Arthralgia	-	-	-	-	11 V-12 ()	-	3 (5.8%)	-	-	-
WBC decreased	-	-	-	-		-	3 (5.8%)	-	-	-
Myalgia	-	-	-	-	T 5 37-2	-	2 (3.8%)	-	2 (6.1%)	-
Diarrhea	3 (21.0%)	-	-	-	- C.	1 1 2	-	-	-	-
Urticaria	3 (21.0%)	-	-	-	-	L	-	-	-	-

Treatment related adverse events occurring in ≥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) and Herceptin and chemotherapy (Cyramza, paclitaxel).



ALX148 HAS INITIAL CLINICAL ACTIVITY ACROSS TUMOR TYPES IN MULTIPLE TRIALS

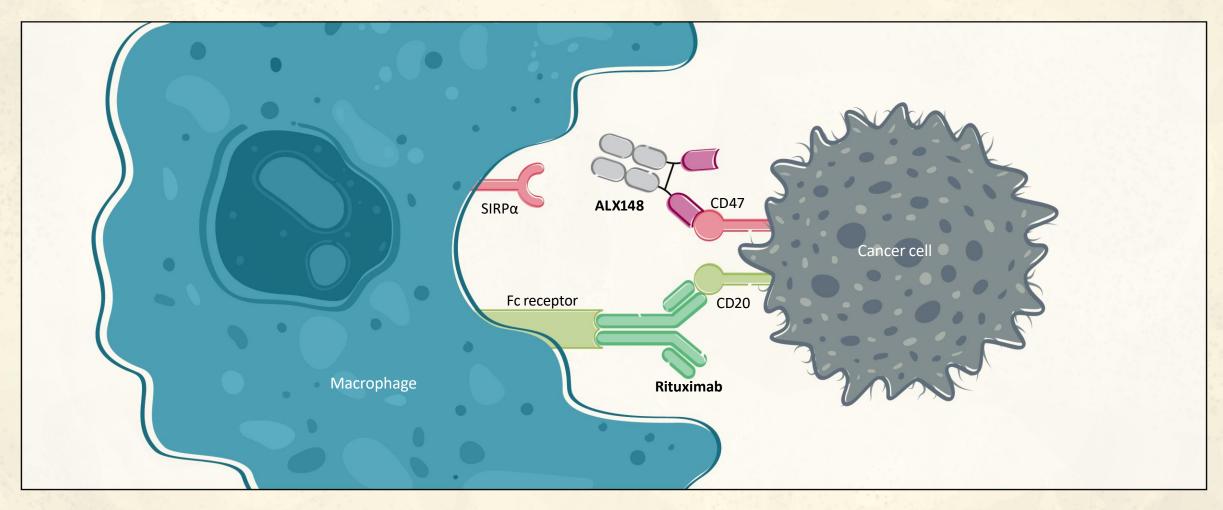
Population	≥2L HER2+ GC		≥2L HER2+ GC	1L HNSCC		≥2L HNSCC (CPI-Naïve)		≥2L NHL (15mg/kg)
Combination	ALX148 + Herceptin + Cyramza + paclitaxel		ALX148 + Herceptin	ALX148 + Keytruda + 5FU + platinum		ALX148 + Keytruda		ALX148 + Rituximab
N-evaluable	14		19	4		10		10
ORR	ALX148 64%	Benchmark 28%	21%	ALX148 75%	Benchmark 36%	ALX148 40%	Benchmark 15%	70%
mPFS (months)	NC	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		

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



Relapsed/Refractory NHL, prior regimen with Rituximab



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

Rituximab 375 mg/m² once a week for 4 weeks, once monthly for 8 months

		ALX148 10 mg/kg QW + Rituximab (n=22)	ALX148 15 mg/kg QW + Rituximab (n=11)
	Follicular	5	3
D.: D:	Marginal Zone (MZL)	2	1
Primary Diseas	e, n Mantle Cell (MCL)	4	1
	DLBCL	11	6
Median Age, Ye	ears (range)	66 (32-80)	64 (53-78)
<u> </u>	М	17	6
Sex, n	F	5	5
	Asian	18	9
Race, n	White	4	2
F606 P6	0	7	2
ECOG, PS, n	1	15	9
Median Prior T	herapy, n (range)	3 (1-7)	3 (1 -5)

Data Cutoff October 1, 2020



	10 mg/k	g QW	15 mg/k	g QW
Population	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%

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.

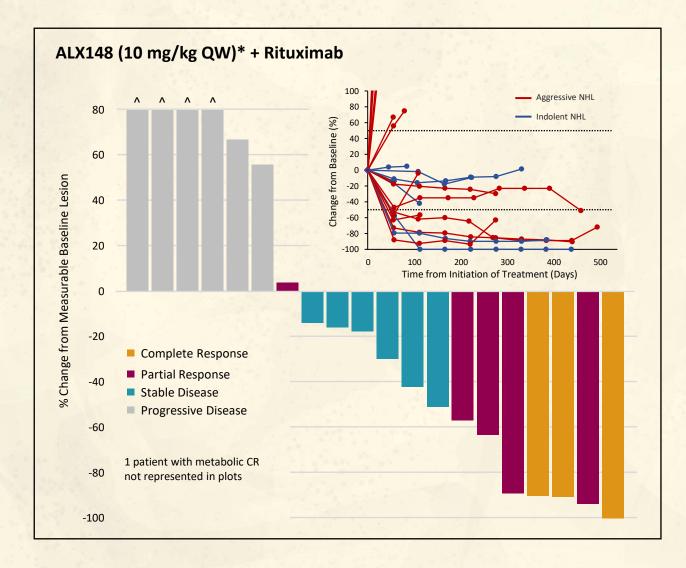
ORR = Objective Response Rate.

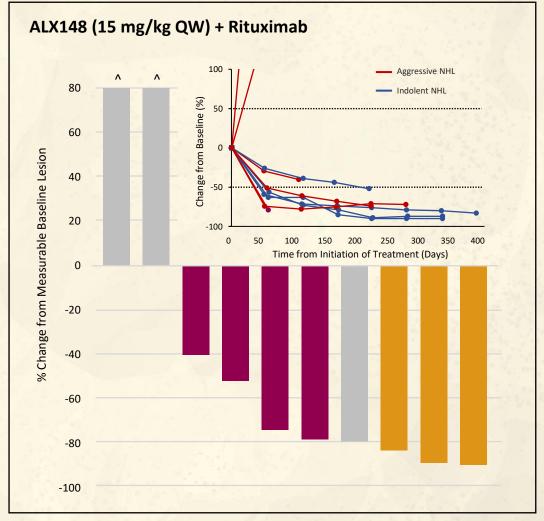


ALX148
demonstrated higher
response rate
at higher dosing

NHL: CLINICAL ACTIVITY OF ALX148 + RITUXIMAB BY PATIENT



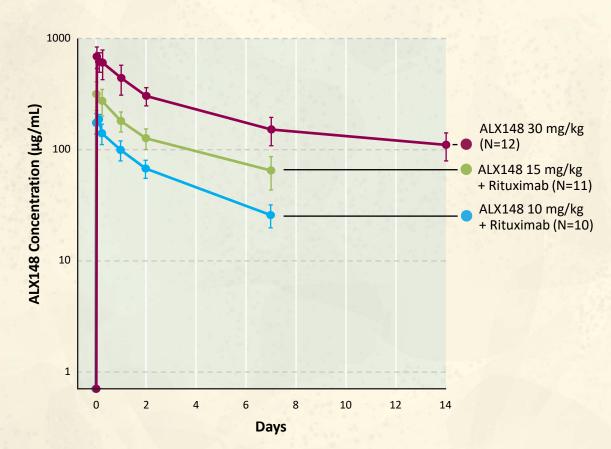




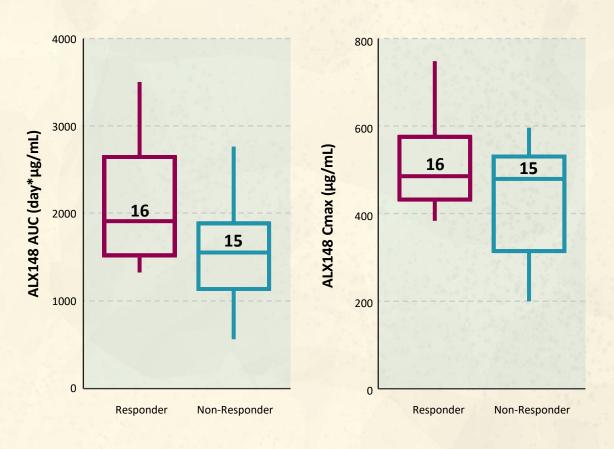


NHL: ALX148 CLINICAL PHARMACOKINETICS AND EXPOSURE-RESPONSE





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



^{*}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).



ANALYSIS

Data Cutoff October 1, 2020



Other agents in CD47 class reduced dosing leading to reduced responses



Higher dosing enabled by ALX148 tolerability profile

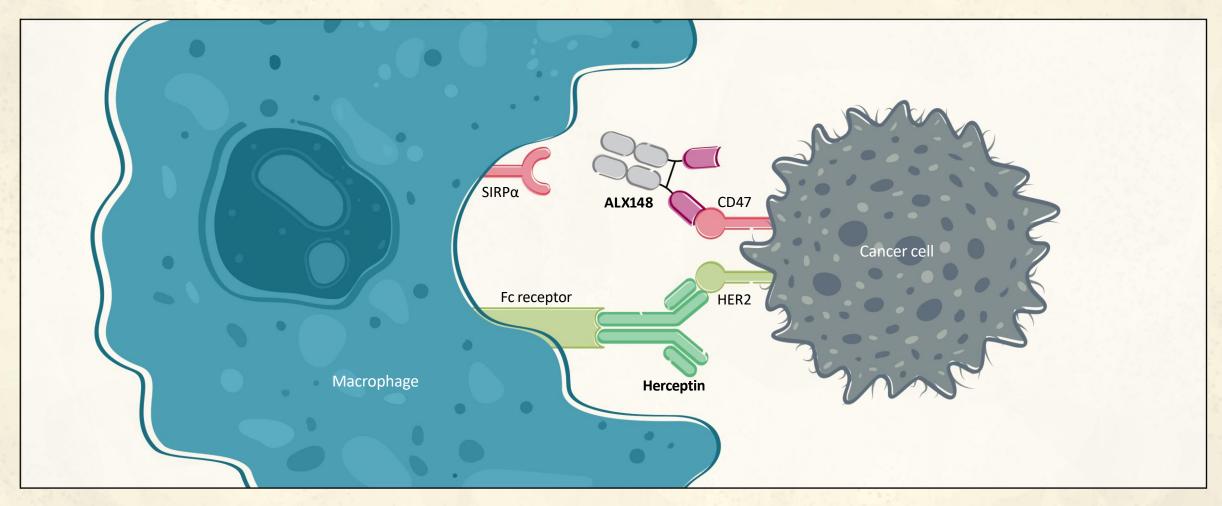


Higher dosing of ALX148 led to higher responses



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=14)
Median age, years (range)		58 (45-79)	63 (36-83)
	М	15	10
Sex, n	F	5	4
	Asian	13	11
Race, n	White	6	3
	Other	1	
5000 00	0	7	5
ECOG PS, n	1	13	9
Progressed upon prior anti-HER2 therapy, n (9	%)	19 (95)	13 (93)
Progressed upon ≥2 prior anti-HER2 therapy n	ı (%)	9 (45)	1 (7.1)
Progressed upon prior CPI therapy, n (%)		9 (45)	1 (7.1)
Visceral distant metastasis, n (%)		17 (85)	13 (93)



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

Phase 1b GC trial:



N=19 HER2 positive GC

Progressed on prior fluoropyrimidine, Herceptin or platinum.



ALX148 10 mg/kg once a week (QW)

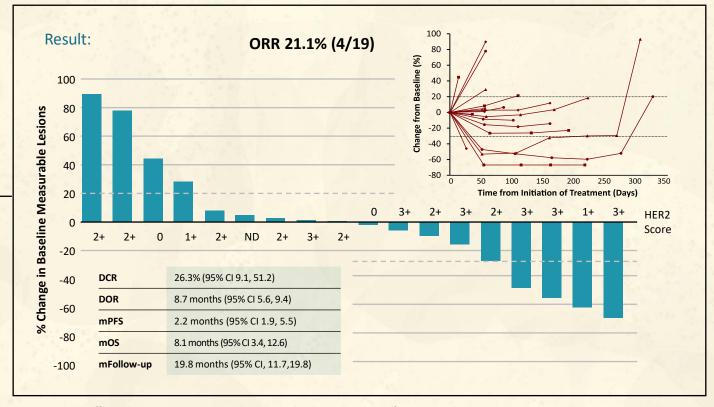
+ Herceptin

8 mg/kg once, then

6 mg/kg every three weeks (Q3W)



- 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:



Patients:

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

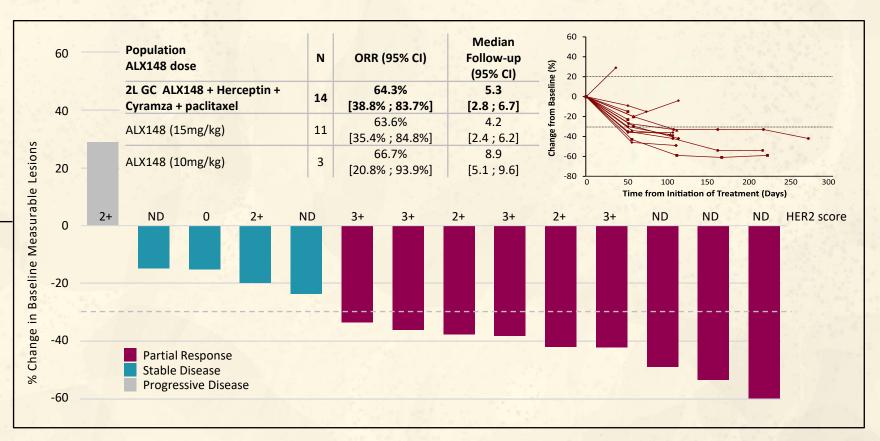


ALX148 10 and 15 mg/kg (QW)

- + Herceptin
- + Cyramza
- + Paclitaxel



- safety of combination
- anti-cancer activity

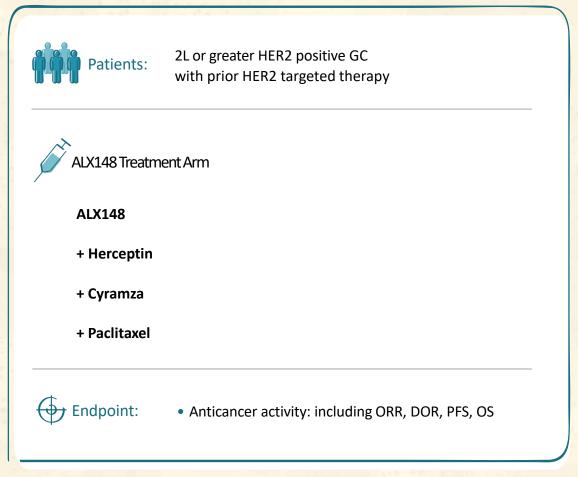


Data Cutoff October 1, 2020. ND = Not Done



SECOND LINE GASTRIC CANCER: PLANNED RANDOMIZED PHASE 2 CLINICAL TRIAL

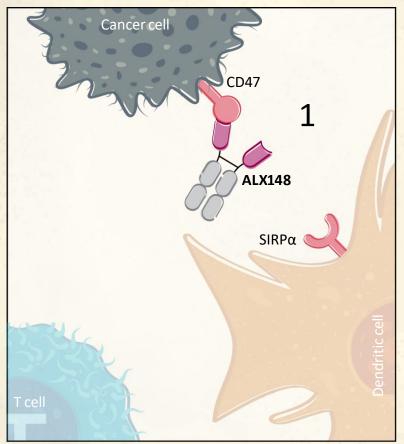
Randomized Planned Phase 2:

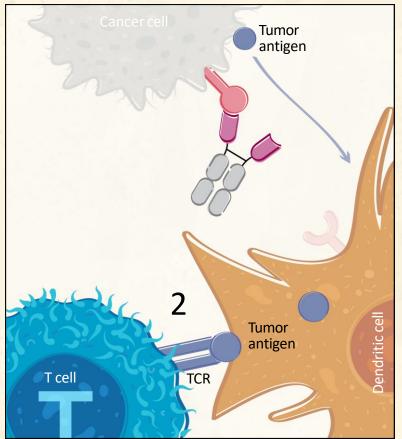


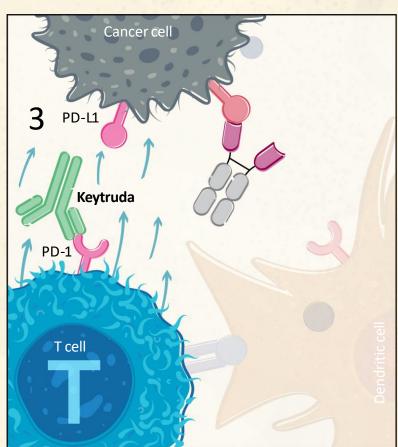


HNSCC TRIAL: ALX148 + KEYTRUDA MECHANISM OF ACTION











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

HNSCC STANDARD OF CARE & OPPORTUNITY



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

- Significant unmet need
- Increasing use of Keytruda monotherapy³
- Keytruda 2020 WW Sales \$14.4B⁴

⁴Merck 10-K February 25, 2021



Keytruda monotherapy ORR of 15% in ≥2L CPI naïve HNSCC

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.

HNSCC TRIALS: PATIENT BASELINE CHARACTERISTICS

		ALX148 + Keytruda ≥2L HNSCC (N=20)	ALX148 + Keytruda + 5FU/platinum 1L HNSCC (N=5)
Median age, years (range)		62.5 (35-81)	61 (45-63)
Carrier III	М	15	4
Sex, n	F	5	1
	Asian	6	4
Race, n	White	12	1
	Other	2	-
ECOC DC -2	0	7	4
ECOG PS, n	1	13	1
ogressed upon prior CPI therap	y, n (%)	10 (50)	0 (0)
sceral distant metastasis, n (%)		12 (60)	1 (20)



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

Phase 1b ≥2L HNSCC trial:



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



ALX148 10 mg/kg once a week (QW)

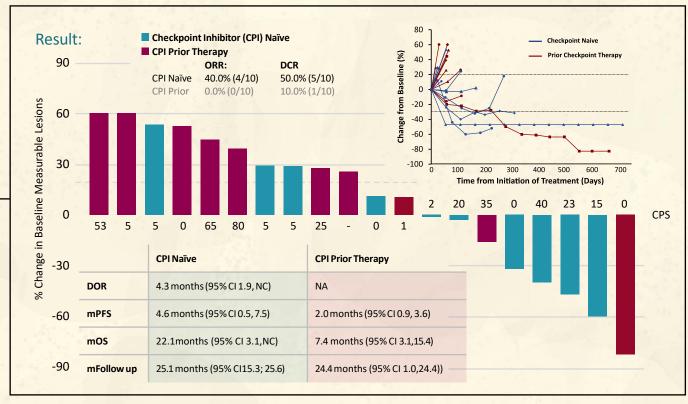
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Keytruda

200 mg every three weeks (Q3W)



- 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.

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



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

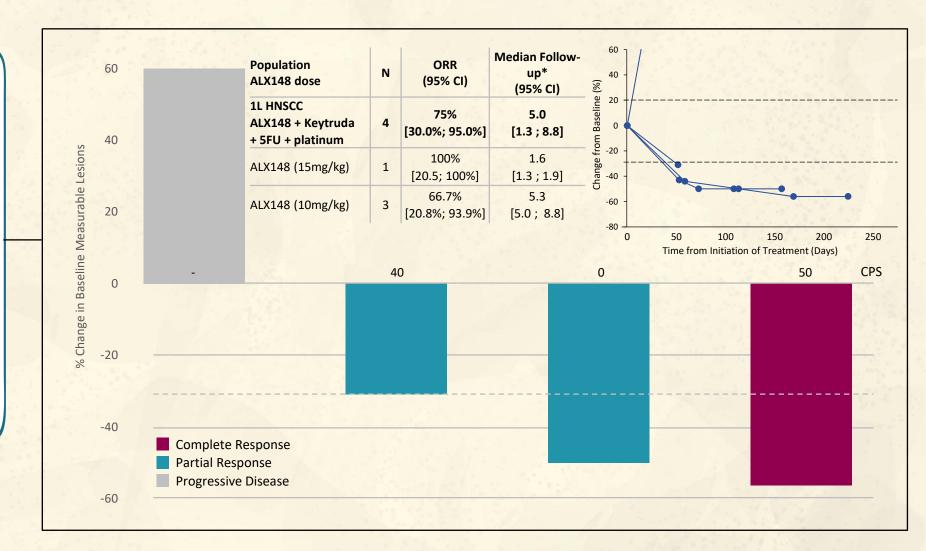
Phase 1b ≥1L HNSCC dose confirmation:



ALX148 10 & 15 mg/kg (QW)

- + Keytruda
- + 5FU
- + Cisplatin or carboplatin

No prior treatment for advanced disease

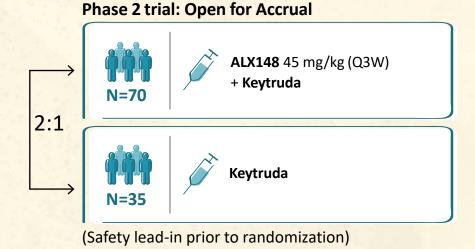




FIRST LINE HEAD & NECK CANCER: PHASE 2 DEVELOPMENT PLAN







• First patient enrolled May 2021

Endpoint:

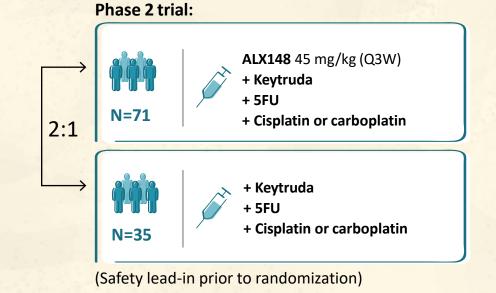
• ORR (from benchmark of 17% to goal of 33%)

ALX148

Keytruda

+

Chemo



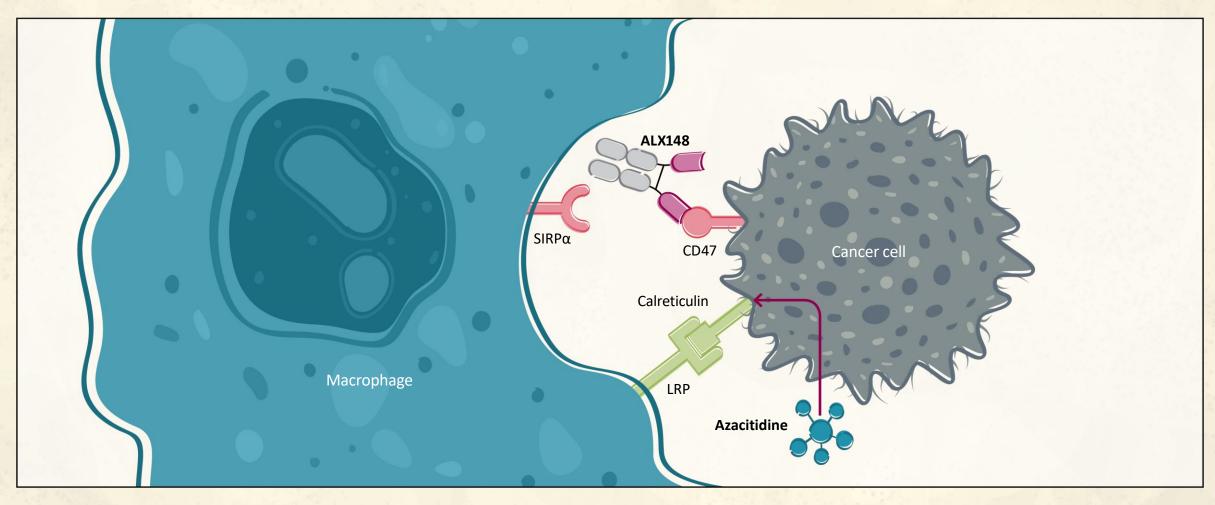
Endpoint:

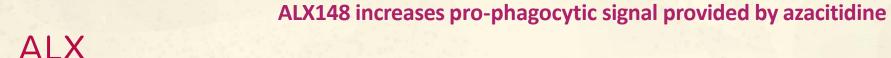
• ORR (from benchmark of 36% to goal of 54%)



MDS TRIAL: ALX148 + AZACITIDINE MECHANISM OF ACTION









ALX148 in

MDS

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

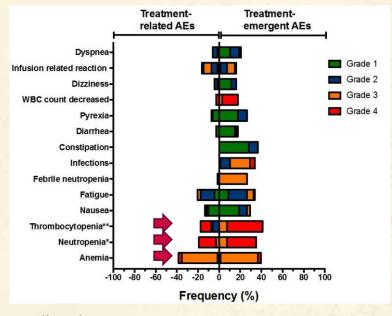
Best Overall Response	1L MDS N=33
ORR	30 (91%)
CR	14 (42%)
CRi	NA
PR	1 (3%)
MLFS/marrow CR	8 (24%) 4 with marrow CR + HI
Hematologic improvement (HI)	7 (21%)
SD	3 (9%)
PD	0

Magro	limab	with	azacitidine
			J J.

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

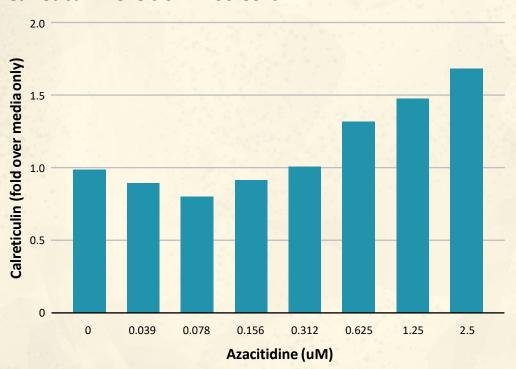


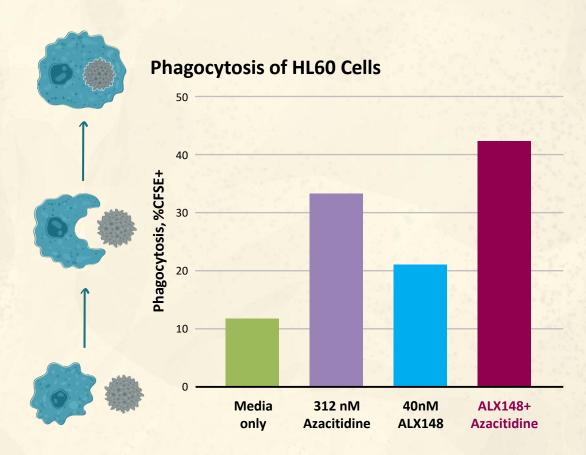
Sallman, ASCO 2020

ALX148 in MDS

PRECLINICAL: ALX148 INCREASES PHAGOCYTOSIS OF BACKBONE MDS DRUG, AZACITIDINE

Calreticulin levels on HL60 Cells





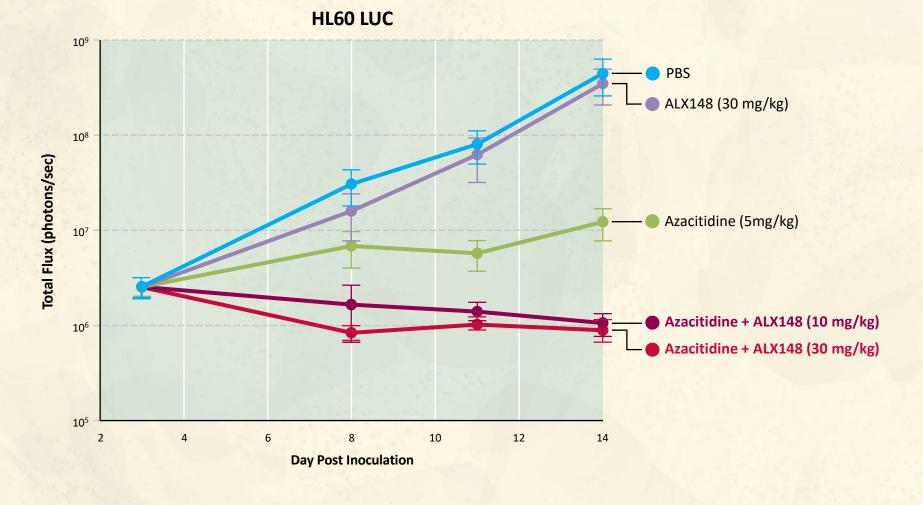
Azacitidine induces calreticulin display.

ALX148 increases phagocytosis in combination with azacitidine.



ALX148 INCREASES TUMOR INHIBITION OF AZACITIDINE

ALX148 in MDS



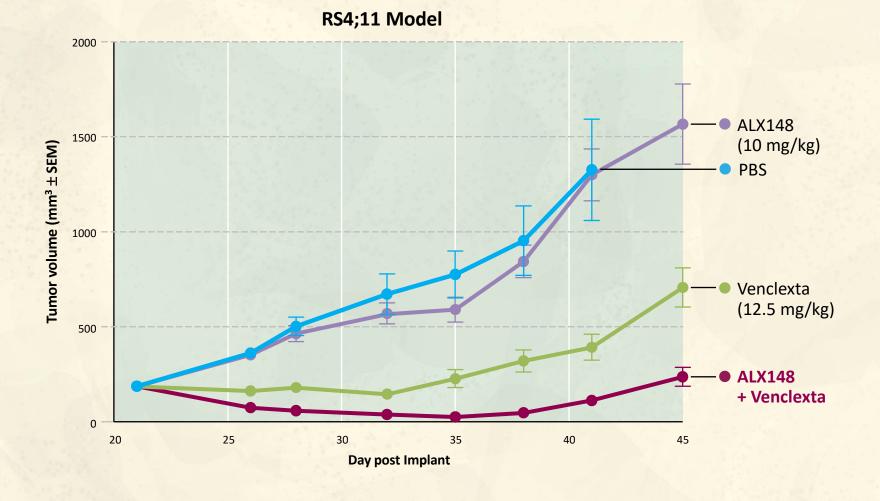
Combination opportunity in MDS and AML

Disseminated AML mouse model



ALX148 INCREASES TUMOR INHIBITION OF VENCLEXTA

ALX148 in AML



Combination opportunity in AML



MDS

MDS TRIAL PLANS

Phase 1 trial: Open for Accrual



Patients:

$N = ^224$

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/m² daily for 7 days of 28 day cycle



safety of combination

Phase 2 Randomized Trial



Patients:

Treatment naïve

IPSS-R intermediate, high, very

high risk MDS



Treatment:

ALX148

Recommended phase 2 dose

Azacitidine

VS.

Azacitidine



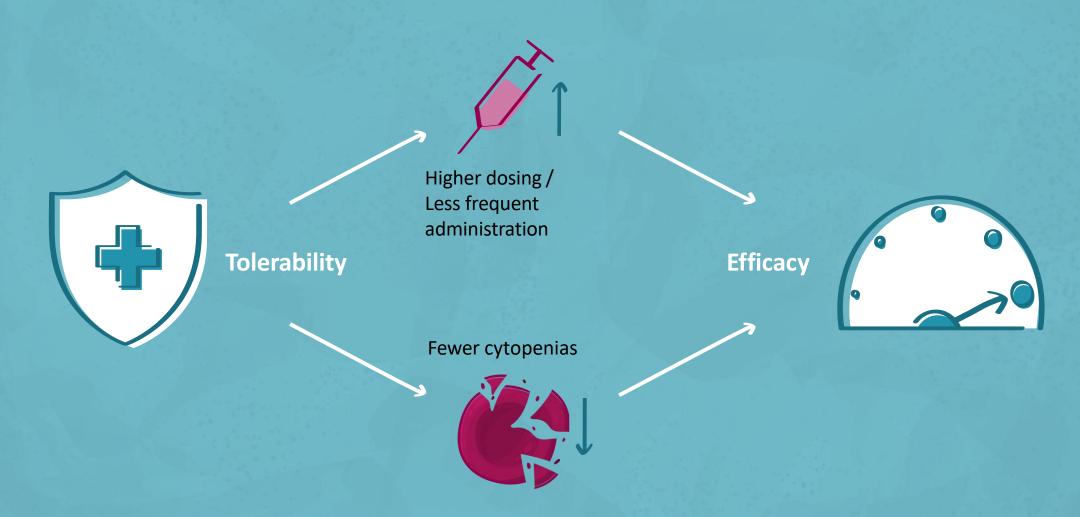
Endpoint:

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



ALX148 DIFFERENTIATION POTENTIAL ENABLED BY TOLERABILITY

in MDS





ALX148 SUMMARY



ALX148 tolerability profile enables combination with range of agents



and
smaller molecular weight
facilitate tumor
penetration for greater
efficacy



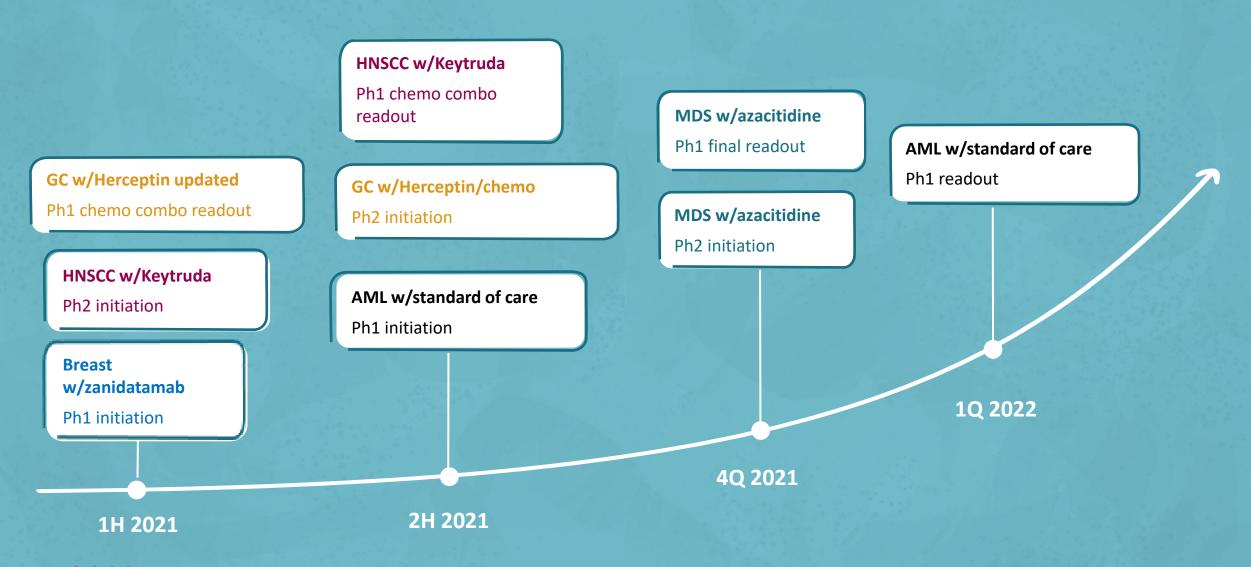
Clinical proof-of-principle in hematologic and solid tumors



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)



Provides SIRPα antibody

- CD47-SIPR α is a dominant myeloid checkpoint mechanism where SIRP α is expressed on myeloid and dendritic cells as well as on a range of tumor cells.
- SIRP α expression on tumor cells enables tumor microenvironment localization of SIRP α TRAAC.



Provides
TRAAC platform
and TLR9 agonist

- Toll-like receptor 9 (TLR9) is a key receptor in the innate immune response.
- Synthetic CpG oligonucleotides (CpG ODNs) are potent TLR9 agonists that stimulate antitumoral cytokine production and immune activation.
- 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.

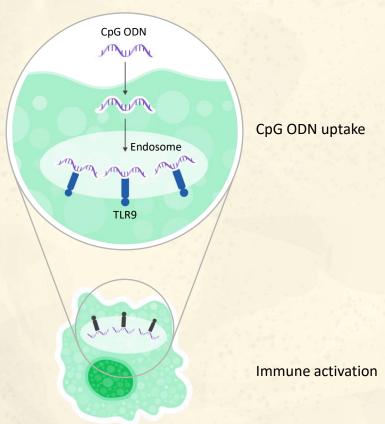
SIRPα TRAAC simultaneously overrides "don't eat me" signals by blocking CD47-SIRPα myeloid checkpoint pathway and induces TLR9-based immune activation in antigen presenting cells (APCs).



TOLL-LIKE RECEPTOR 9 (TLR9): A KEY INNATE PATHWAY

PROOF-OF-CONCEPT DATA IN MELANOMA PATIENTS WITH INTRATUMORAL TLR9 AGONISTS

TLR9 stimulation by CpG ODN leads to immune cell activation



Intratumoral programs have demonstrated clinical activity



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

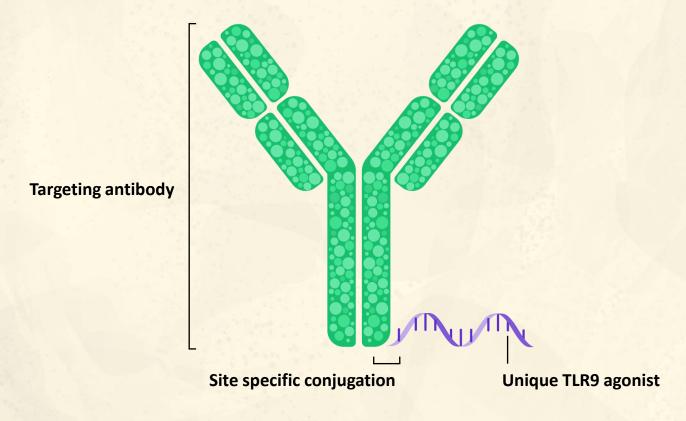
Additional clinical data from SD-101 (Dynavax), IMO-2125 (Idera) and AST-008 (Exicure) further validate TLR9 agonism in cancer.



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

TLR9 Agonist Antibody Conjugate (TRAAC):

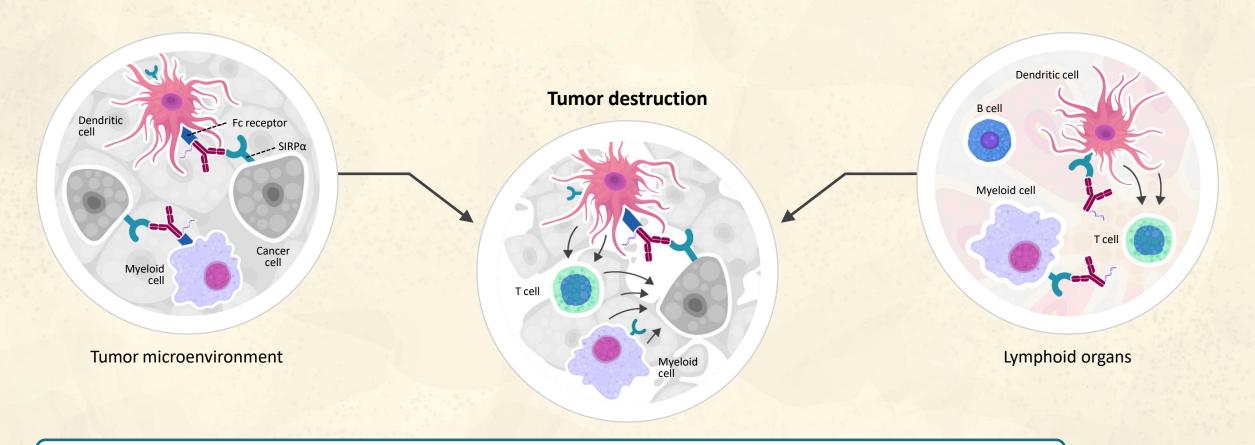
Systemic dosing with cell specific TLR9 activation



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



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



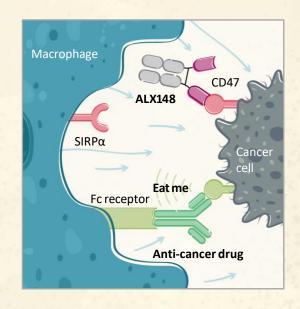
- SIRPα TRAAC binding to myeloid cells targets TLR9 activation in myeloid cells that matter (e.g. dendritic cells).
- SIRPα expression on tumor cells enables tumor microenvironment localization of SIRPα TRAAC.
- SIRPα TRAAC blocks CD47-SIRPα myeloid checkpoint pathway.

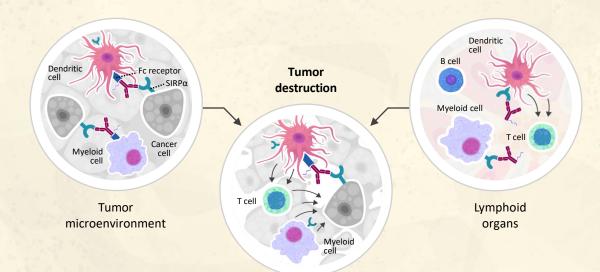


SIRPα TRAAC PROGRAM IS COMPLEMENTARY TO ALX148

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.



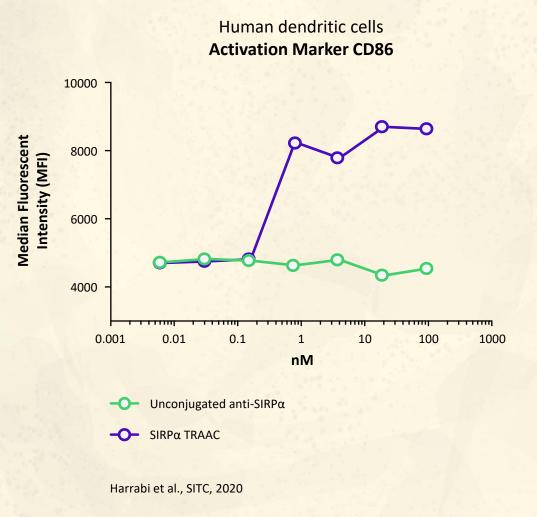


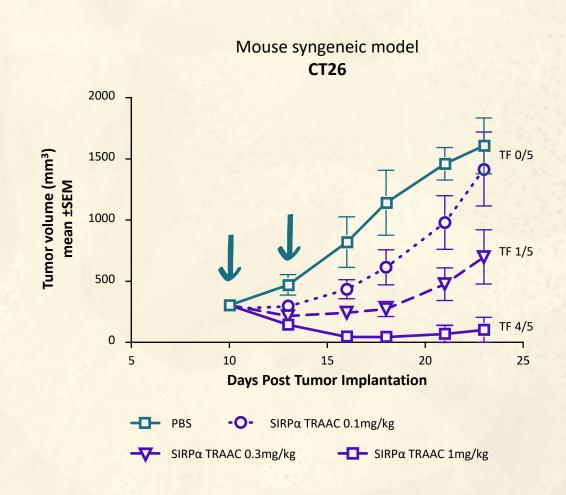
SIRP α TRAAC is an agonistic molecule that directly activates dendritic cells and initiates a coordinated innate and adaptive immune response against cancer.

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



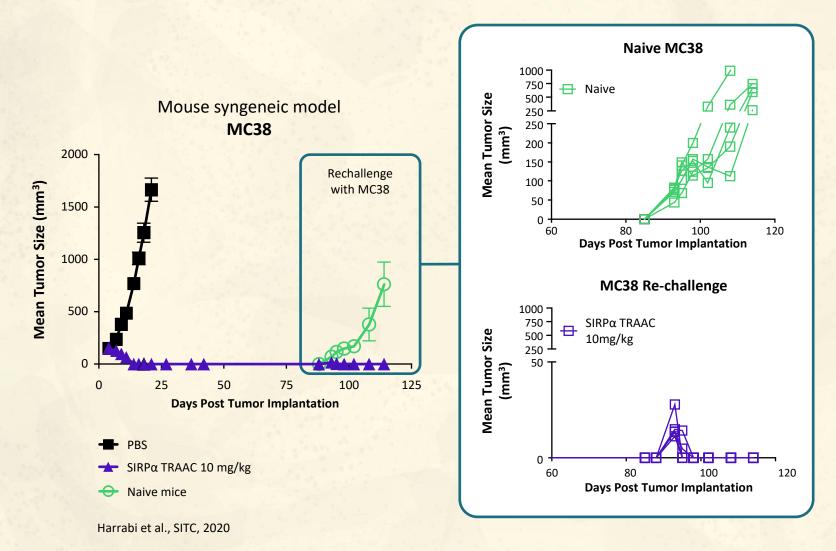
SIRPα TRAAC INDUCES POTENT AND SELECTIVE IMMUNE ACTIVATION AND LEADS TO POTENT SINGLE AGENT ACTIVITY IN TUMOR MODELS







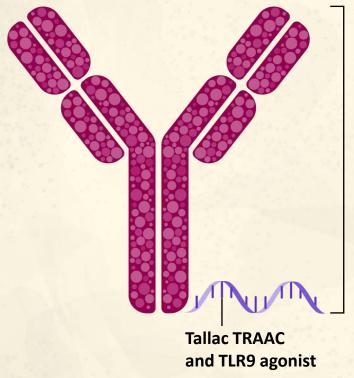
SYSTEMIC ADMINISTRATION OF SIRPα TRAAC GENERATES DURABLE ANTI-TUMOR RESPONSE AND IMMUNOLOGICAL MEMORY



- 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.



SIRP α TRAAC: TARGETING IMMUNE ACTIVATION TO WHERE IT MATTERS



ALX anti-SIRPα antibody

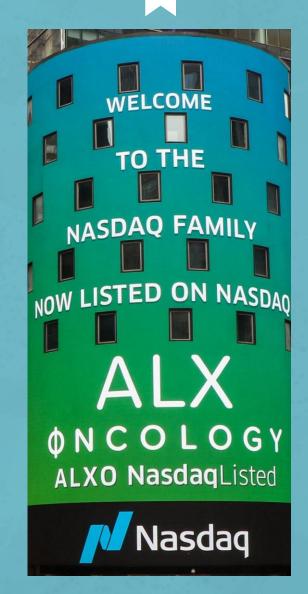
- SIRPα TRAAC binding to myeloid cells targets TLR9 activation in key myeloid cells (e.g. dendritic cells).
- SIRP α expression on tumor cells enables localization of SIRP α TRAAC to tumor microenvironment.
- SIRPα TRAAC blocks CD47-SIRPα myeloid checkpoint pathway.
- Antibody-like PK profile allows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

IND expected end of 2022



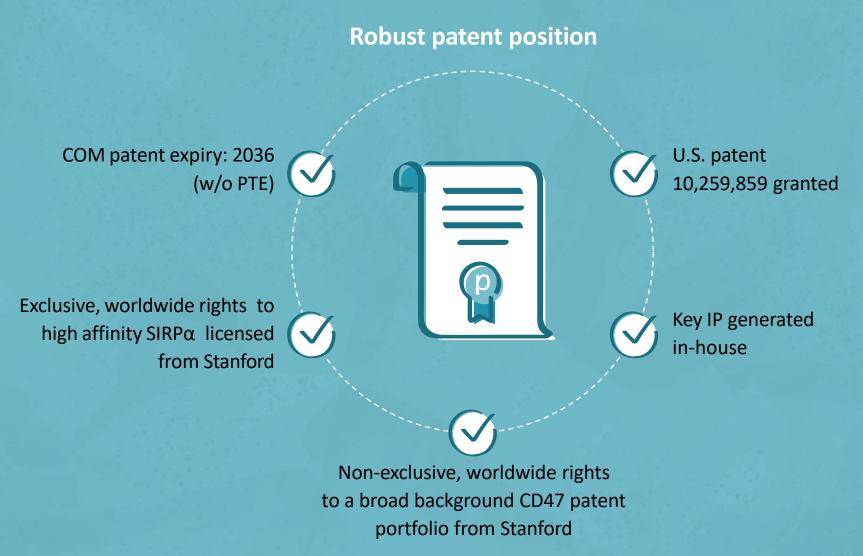
FINANCIAL INFORMATION

- 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





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

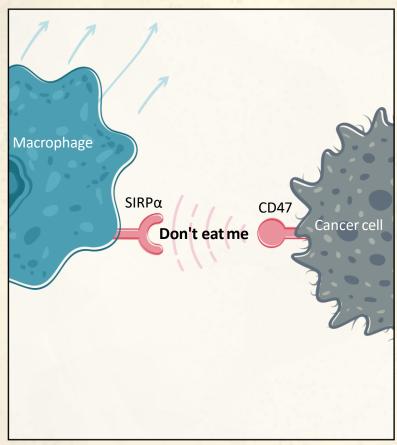


BACKUP SLIDES

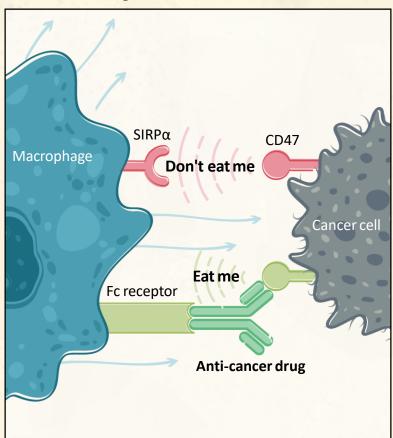


CD47 MECHANISM OF ACTION AS MYELOID CHECKPOINT

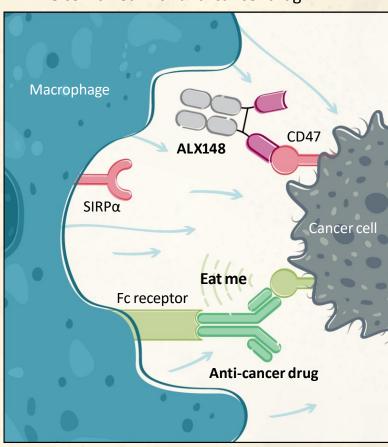
Basal state:



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



Selected hematologic, treatment related	ALX148 + Rituxan (N=33) ¹		CC-90002 + Rituxan (n=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:
Tolerability profile
compares favorably to
other CD47 blockers



MAGROLIMAB NHL RESPONSE RATES AND DOSING

	M 1	Ш.	
	1.7		
	N. 1		
k			

DLBCL w/ Rituxan	Ph1	Ph2
N	21	38
Dosing (mg/kg)	up to 30 Weekly	30 and 45 Every Other Week
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.

PR = partial response rate.

EHA 2019 Abstract S867



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)	-

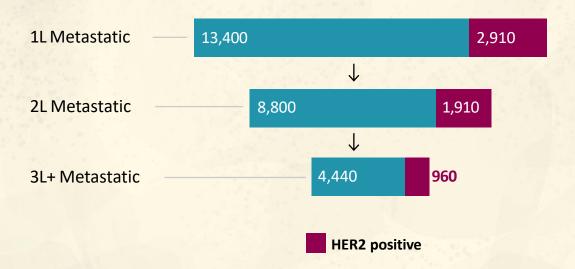
Data Cutoff: October 1, 2020



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



 $^{^{1}\}text{DRG}$ Gastroesophageal Cancer published December 2019, HER2+ rate of ~17%.

² SEER 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 (10/15 mg/kg QW) + Herceptin + Cyramza + paclitaxel (N=14)

Adverse Event	Total n(%)		
Diarrhea	3 (21)		
RASH*	3 (21)		
Urticaria	3 (21)		
Fatigue	2 (14)		
Pruritus	2 (14)		
Lymphocyte count decreased	1 (7)		
Abdominal pain	1 (7)		

^{*}RASH: Rash, Dermatitis

≥ Grade 3 Adverse Events

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

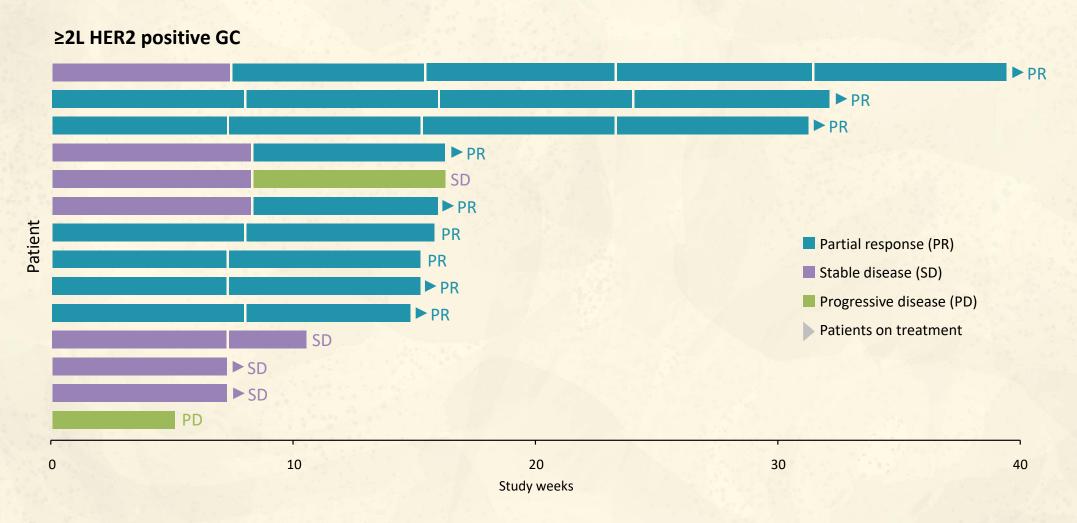
+ Cyramza + paclitaxel (N=14)

Grade 3	Grade 4	Grade 3	Grade 4
5 (36)	1 (7)		<u>-</u>
5 (36)	-		
1 (7)	- (1, 11)		
1 (7)	-	17.000	-
1 (7)		1 (7)	
1 (7)			- A
1 (7)		-	
	All Ca Grade 3 5 (36) 5 (36) 1 (7) 1 (7) 1 (7) 1 (7)	5 (36) 1 (7) 5 (36) - 1 (7) - 1 (7) - 1 (7) - 1 (7) -	All Causality Rel Grade 3 Grade 4 Grade 3 5 (36) 1 (7) - 5 (36) - 1 (7) - 1 (7) - 1 (7) - 1 (7) - 1 (7) - 1 (7) - 1 (7) -

Data Cutoff October 1, 2020



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





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

≥ Grade 3 Adverse Events

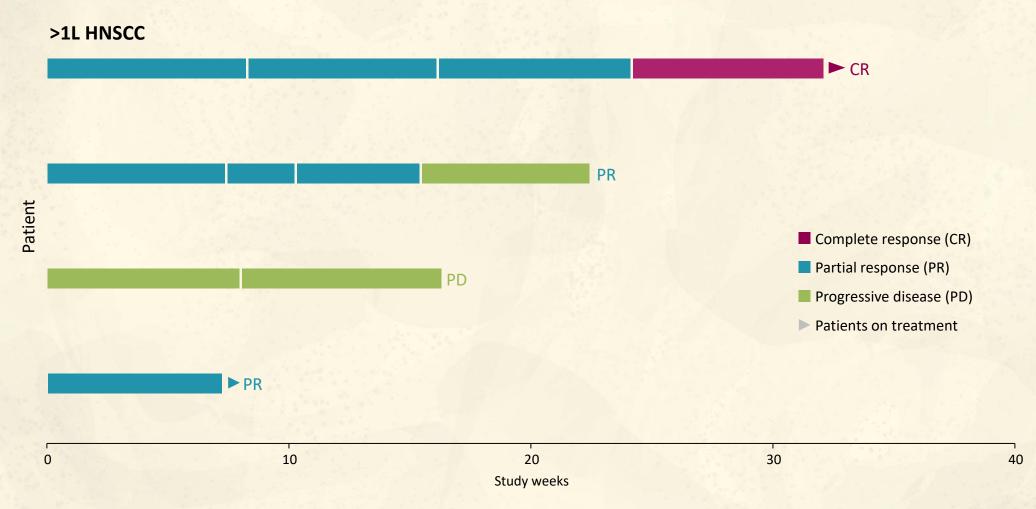
ALX148 (10 and 15 mg/kg QW) + Keytruda + 5FU + platinum (N=5)

Adverse Event		l n(%) nusality	Total n(%) Related	
	Grade 3	Grade 4	Grade 3	Grade 4
Neutrophil count decreased	1 (20)			
Anemia	1 (20)			
Cardiac tamponade	-	1 (20)*		-
Dysphagia	1 (20)	77 - H	-	
Pericarditis constrictive	1 (20)*	<u>-</u>		
Supraventricular tachycardia	1 (20)*			100

^{*}Events occurred in a single patient with malignant pericardial effusion



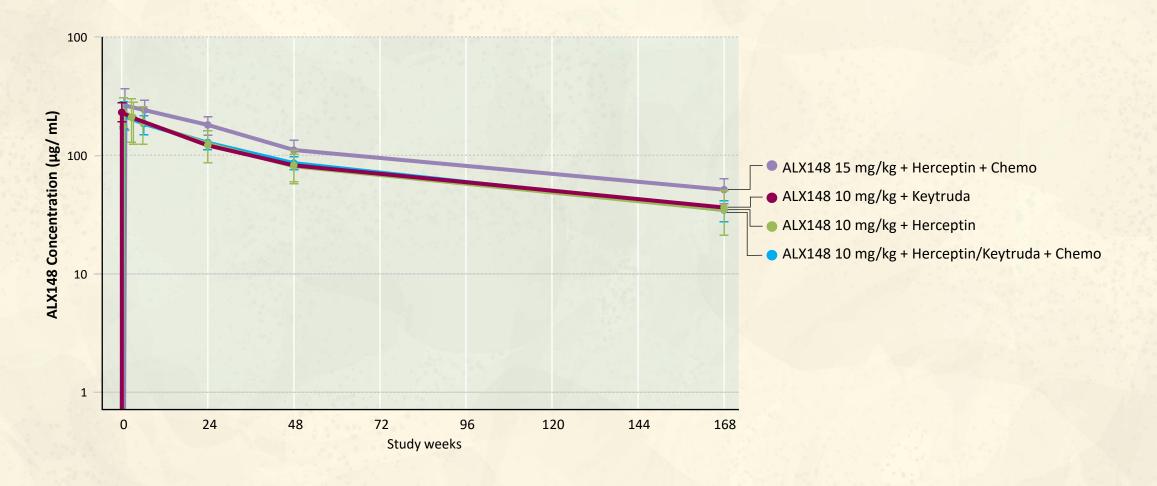
PHASE 1B FIRST LINE HNSCC: ALX148 + KEYTRUDA + 5FU/PLATINUM BEST OVERALL AND DURATION OF RESPONSE WHILE ON TREATMENT



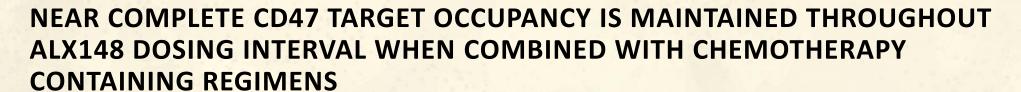


ALX148 in HNSCC

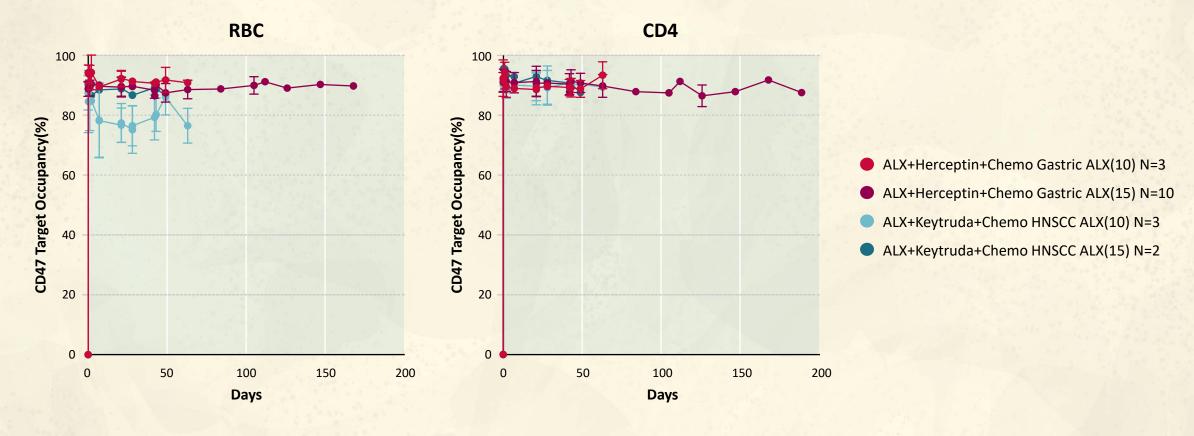
ALX148 PK FOLLOWING COMBINATION THERAPIES IS COMPARABLE WITH AND WITHOUT CHEMOTHERAPY









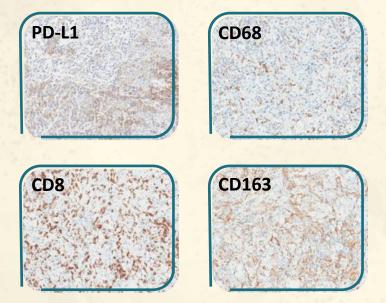




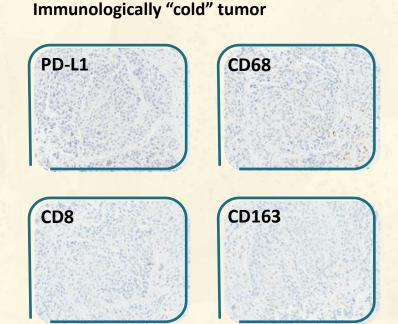
PRE-TREATMENT IHC RESULTS IN HOT AND COLD TUMORS HNSCC PATIENT 1 (PD-L1 POSITIVE) AND PATIENT 2 (PD-L1 NEGATIVE)



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



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).



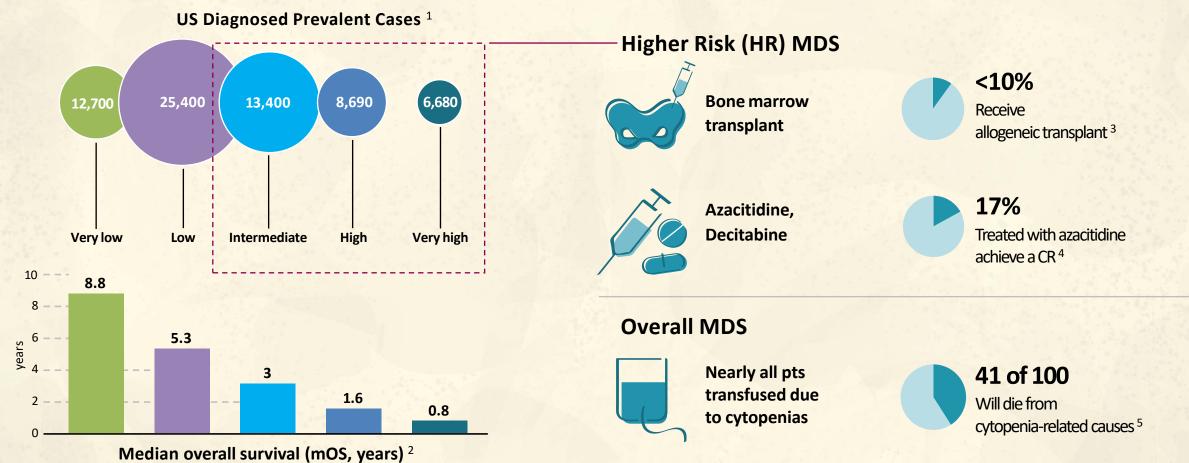
Patient 2 Best Overall Response: PR

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



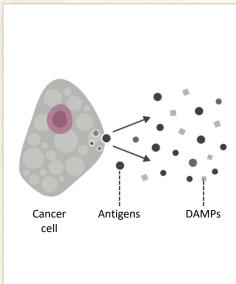


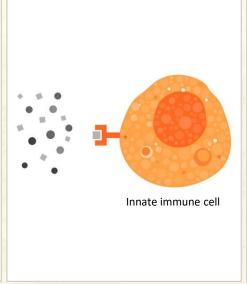
Higher risk MDS patients are an area of high unmet need.

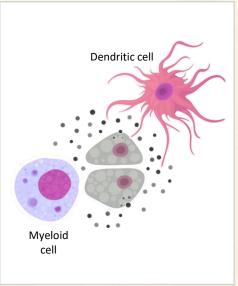


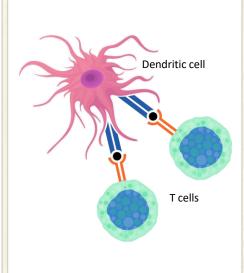
²Greenberg, Blood, 2012

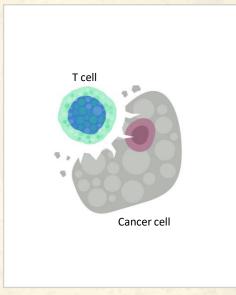
HARNESSING THE POWER OF INNATE AND ADAPTIVE IMMUNE RESPONSES TO CANCER











1. Release of PAMPs/DAMPs and tumor antigens

2. Detection by PRRs on innate immune cells

3. Amplification of innate immune cell activation

4. Antigen presentation and activation of T cells

5. Recognition and elimination of tumor by T cells

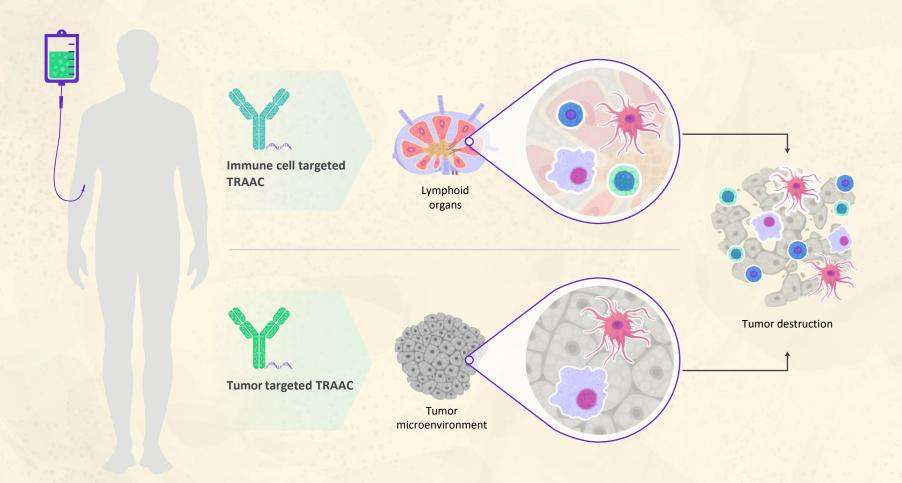
- Successful immune-mediated elimination of cancer requires coordination between the innate and adaptive arms of the immune system.
- Innate immune cells (macrophages, myeloid cells and dendritic cells) may utilize a variety of signaling pathways, including TLR9, TLR7 or 8, STING and CD40, to trigger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

DAMPs: damage-associated molecular patterns PAMPs: pathogen-associated molecular patterns

PRRs: pattern recognition receptors

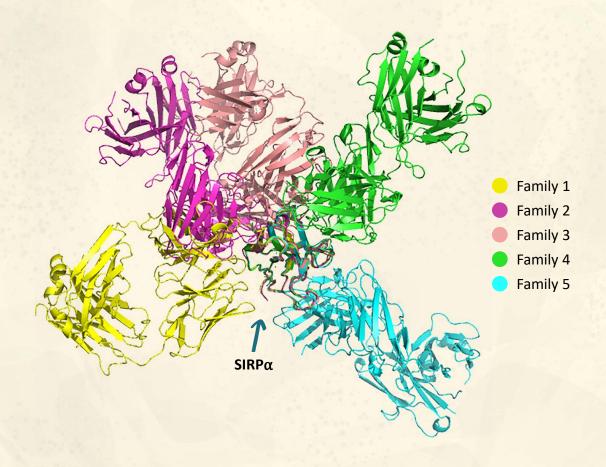


TLR9 AGONIST ANTIBODY CONJUGATE (TRAAC) ENABLES VERSATILE TARGETING OF IMMUNE CELLS THAT MATTER





ALX ONCOLOGY'S SIRPα ANTIBODIES: HIGH AFFINITY AND DIVERSE EPITOPES



ALX's diverse range of SIRPα antibodies

Diversity allows selection of best-in-class SIRP α antibodies:

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

