



40TH ANNUAL J.P. MORGAN HEALTHCARE CONFERENCE

January 11, 2022

ALX
ONCOLOGY

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ADVANCING A HIGHLY DIFFERENTIATED IMMUNO-ONCOLOGY PIPELINE

ALX Oncology (Nasdaq: ALXO) is advancing a pipeline of candidates based on expertise in protein engineering and oncology led by the CD47 blocker, evorpaccept, currently in phase 2 clinical trials



Evorpaccept (myeloid checkpoint inhibitor) as a cornerstone therapy

Randomized phase 2 trials enrolling in 3 solid tumor indications: gastric/gastroesophageal cancer and 2 head and neck squamous cell carcinoma trials

Ongoing early clinical trials in 2 hematologic malignancies: myelodysplastic syndromes and acute myeloid leukemia

Continuing to broaden potential uses in new combinations and tumor types.



Building early stage pipeline

Ongoing IND-enabling development of ALTA-002 through 50/50 joint collaboration.

Early preclinical development of tumor-activated antibody platform.



Strong financial position

Cash and equivalents of \$385.1M as of September 30, 2021.

Expected cash runway into 2024.




Collaboration partners

Merck, Eli Lilly, Zymeworks



EVORPACEPT'S BROAD CLINICAL DATA SUPPORTS ITS DIFFERENTIATED POTENTIAL

Evorpacept was designed to:



Work in combinations

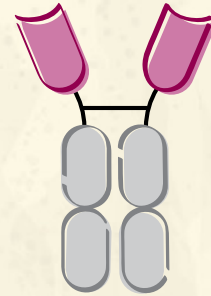
- +  Antibodies
- +  Checkpoint inhibitors
- +  Chemotherapy

Target broad tumor indications

-  Solid tumors
-  Hematology

Be convenient and tolerable for patients







-  Flexible dosing schedule
-  Targets cancer cells







Evorpacept:
A phase 2 CD47 blocker designed to be a cornerstone of cancer treatments

Evorpacept's clinical data shows promising initial activity in:



Solid tumor combinations:

-  **GC**
Gastric/Gastroesophageal junction cancer
 -  Herceptin
 -  Herceptin + Cyramza + Paclitaxel
-  **HNSCC**
Head and neck squamous cell carcinoma
 -  Keytruda
 -  Keytruda + 5FU + Platinum

Hematology combinations:

-  **MDS**
Myelodysplastic syndromes
 -  Azacitidine
-  **NHL**
Non-Hodgkin's lymphoma
 -  Rituximab

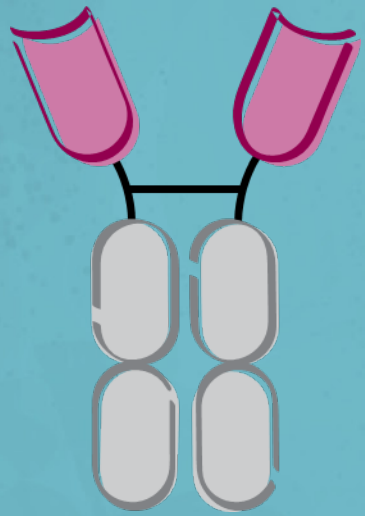
Flexibility and tolerability:

-  **Dosing schedule**
15 mg/kg QW, 30 mg/kg Q2W,
45 mg/kg Q3W, 60 mg/kg Q4W.
-  **Tolerability profile**
No dose-dependent cytopenias

ALX PIPELINE

	Indication	Combination Agent	Discovery	IND Enabling	Phase 1	Phase 2	Phase 3	Fast Track	Collaboration Partner
Evorpacept Combination Studies	HNSCC Head And Neck Squamous Cell Carcinoma	Keytruda (ASPEN-03)	▶						
		Keytruda + 5FU + Platinum (ASPEN-04)	▶						
	GC Gastric/Gastroesophageal Junction Cancer	Herceptin (ASPEN-01)	▶						
		Herceptin + Cyramza + Paclitaxel (ASPEN-06)	▶						
	Breast Cancer	Zanidatamab	▶						
	HEMATOLOGY	MDS Myelodysplastic Syndromes	Azacitidine (ASPEN-02)	▶					
AML Acute Myeloid Leukemia		Azacitidine + Venclexta (ASPEN-05)	▶						
NHL Non-Hodgkin's Lymphoma		Rituximab (ASPEN-01)	▶						
ALTA-002*	Advanced Cancer		▶						

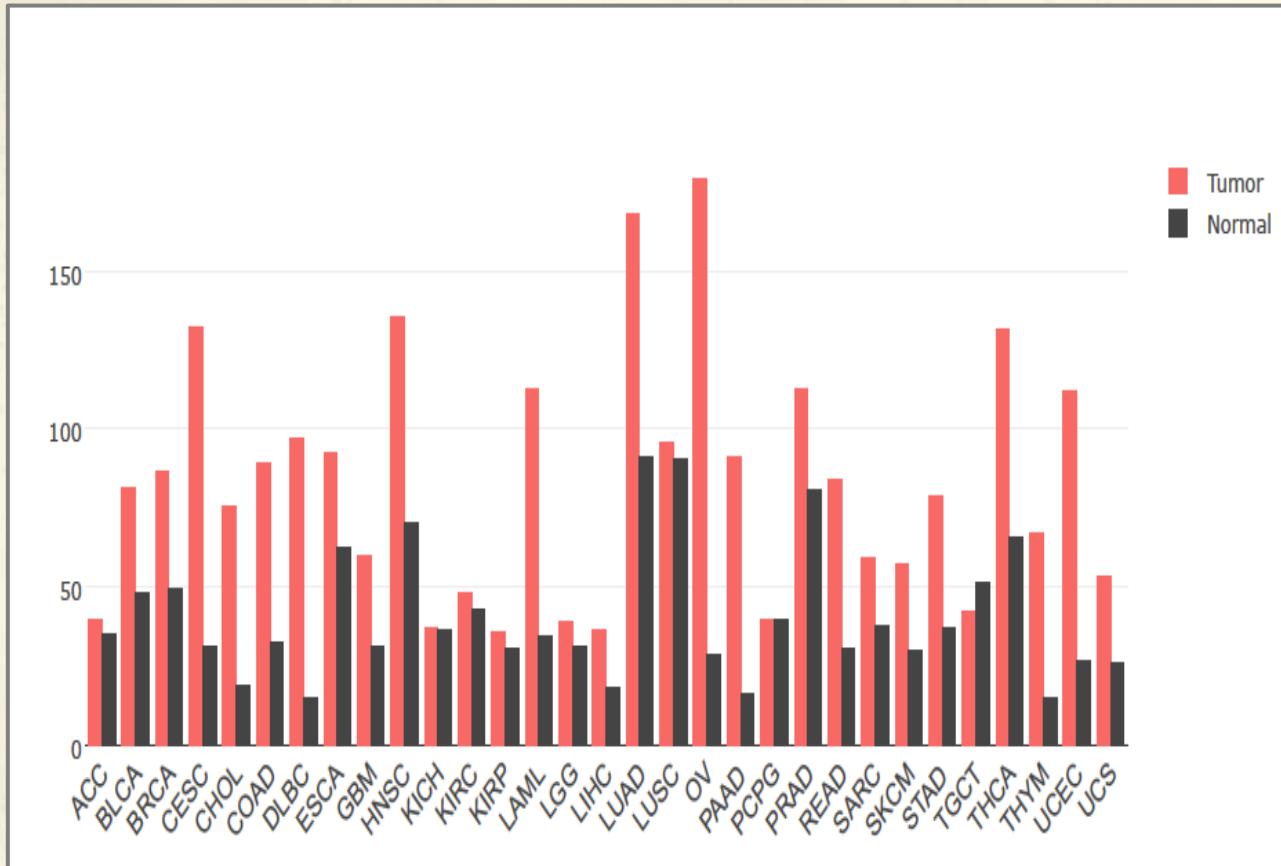
*SIRPα Toll-like receptor agonist antibody conjugate (TRAAC)



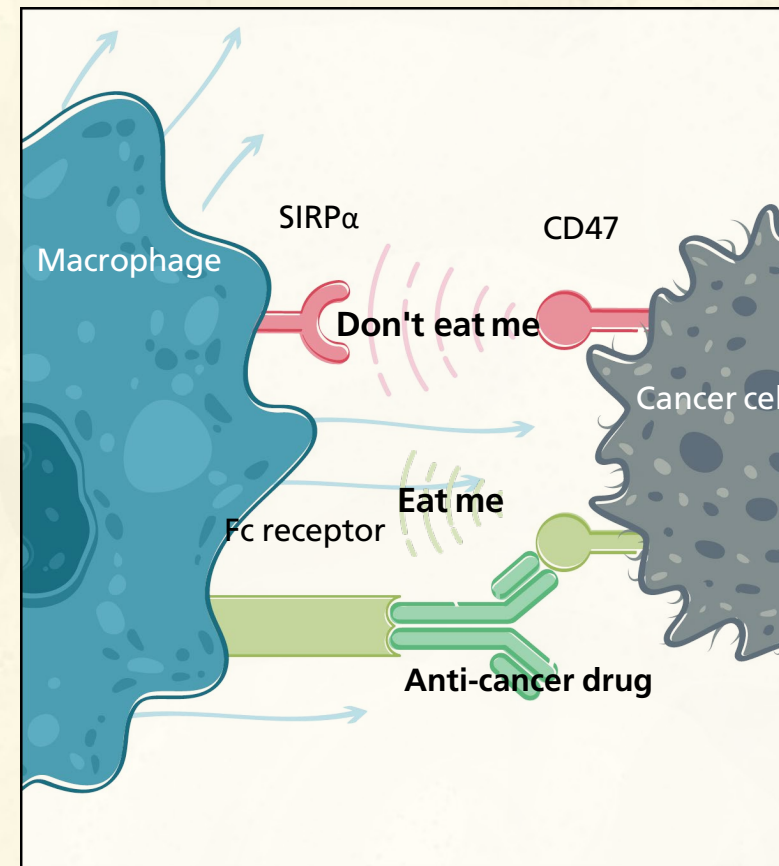
**EVORPCEPT
(ALX148)**

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

TAA-Expression levels on cancer and normal cells

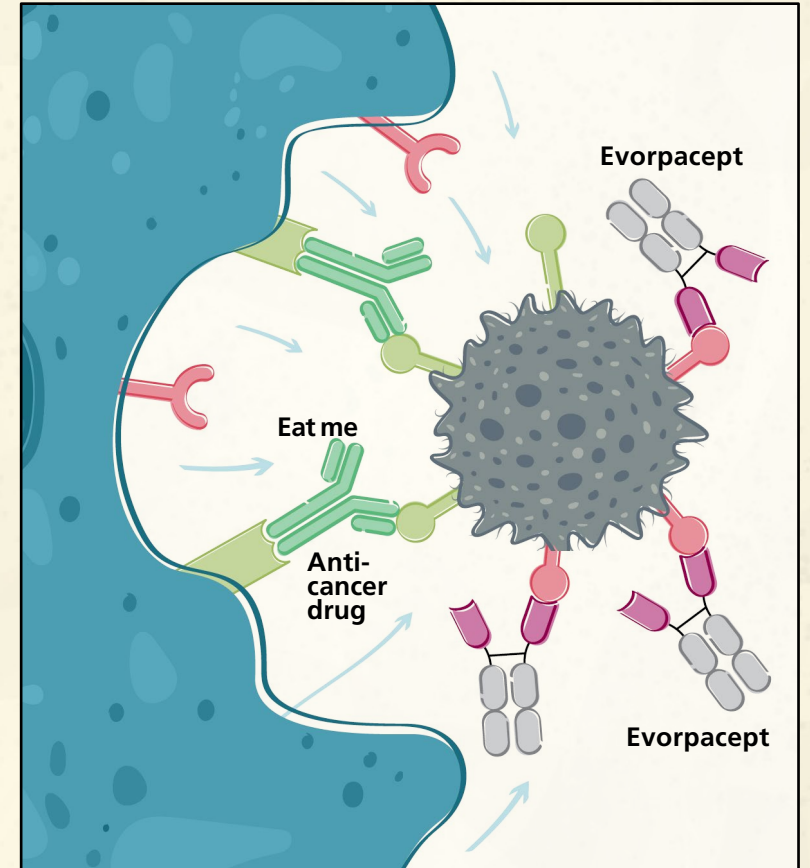
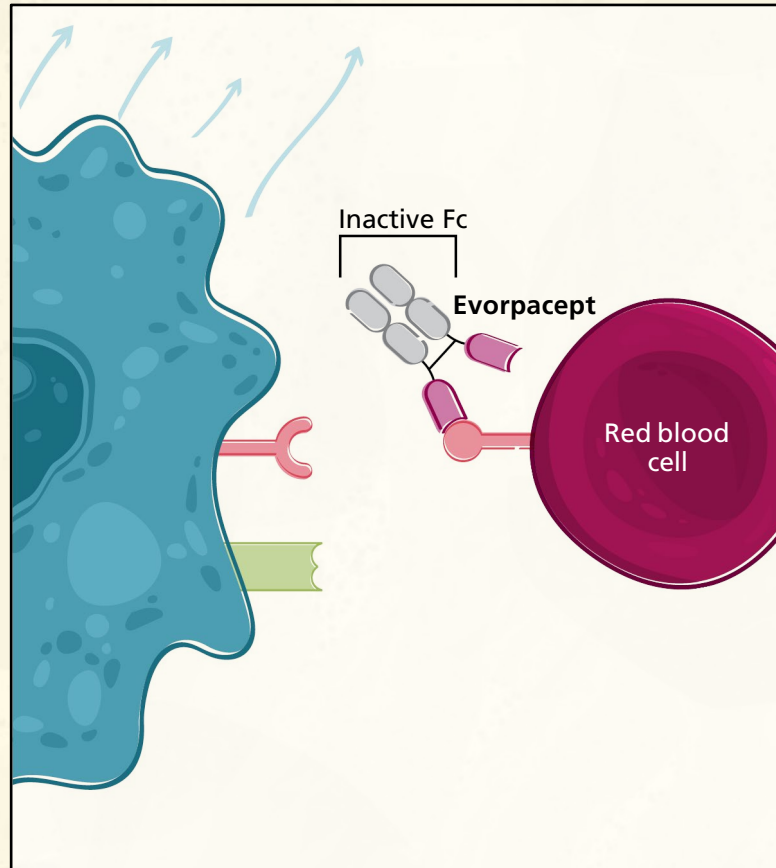
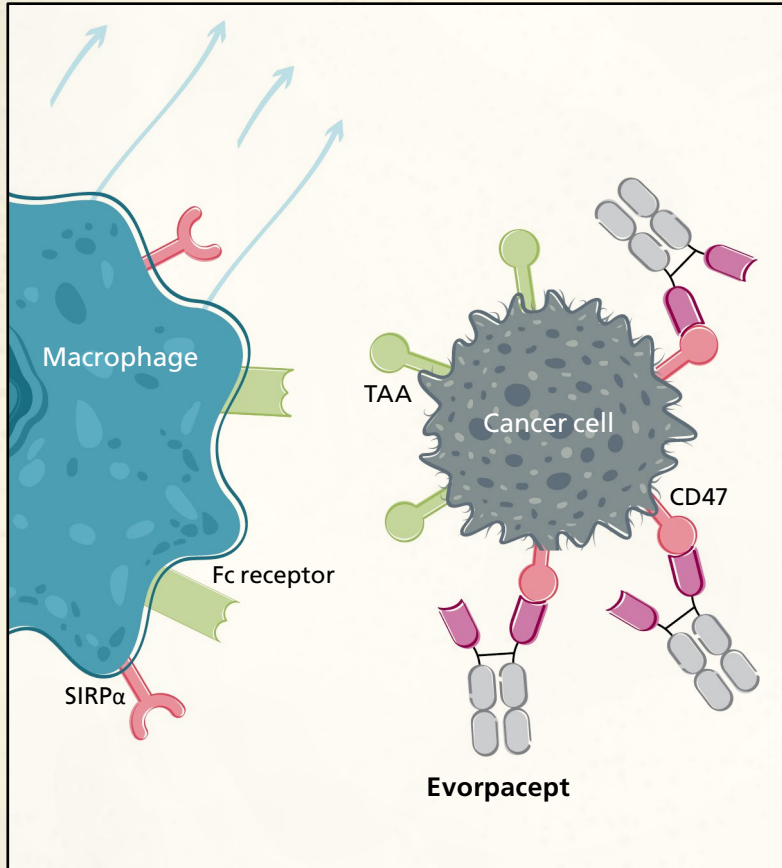


Checkpoint Mechanism: "do not eat me"



TARGETING CD47 AS CHECKPOINT: ALX ONCOLOGY'S APPROACH

It spares normal cells



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

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

EVORPACEPT: METICULOUSLY DESIGNED CD47 BLOCKER

High affinity CD47 binding domain of SIRP α



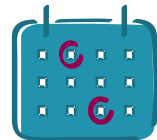
Potently blocks CD47 signal on cancer cells

Inactive Fc domain eliminates binding activity



No dose dependent cytopenia

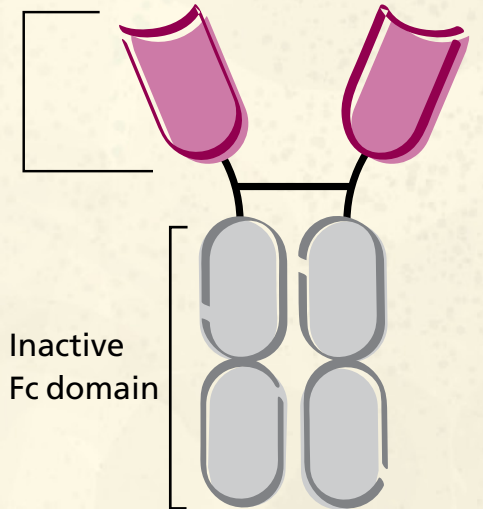
Presence of Fc domain ensures slow clearance and long half-life



Less frequent dosing and more flexibility

Designed for safety and efficacy

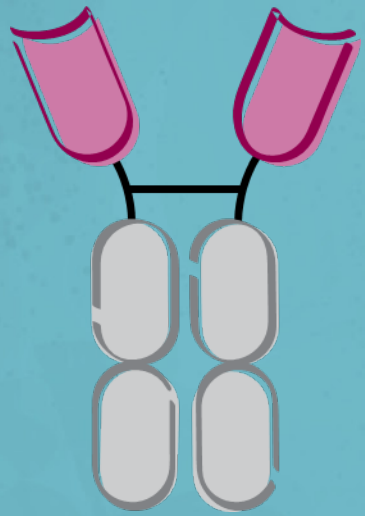
High affinity CD47 binding domains of SIRP α



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

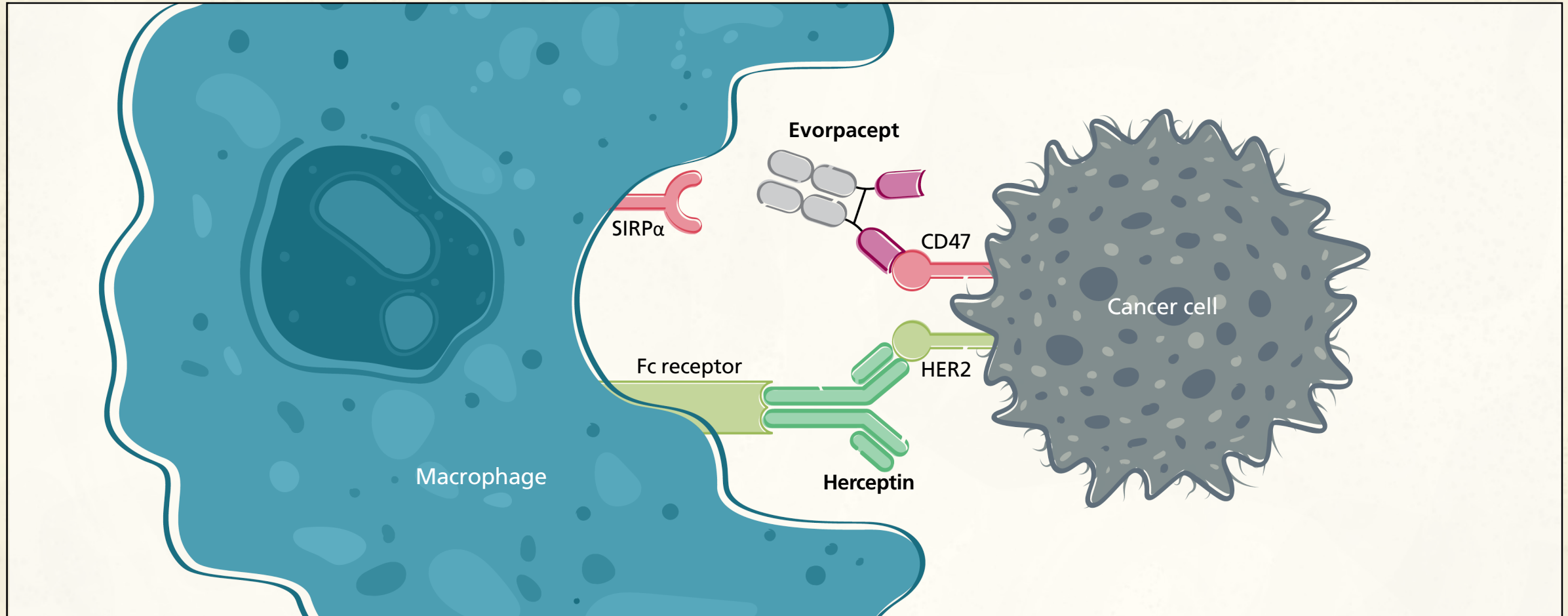
EVORPACEPT DEMONSTRATES CONSISTENT TOLERABILITY PROFILE

Treatment related adverse events	evorpacept + Herceptin + Cyramza + chemo (N=18)		evorpacept + Keytruda + chemo (N=13)		evorpacept + Keytruda (N=52)		evorpacept + azacitidine (N=22)	
	Total n (%)	≥Grade 3	Total n (%)	≥Grade 3	Total n (%)	≥Grade 3	Total n (%)	≥Grade 3
Fatigue	2 (11.1%)	-	1 (7.7%)	-	6 (11.5%)	-	-	-
Rash / dermatitis acneiform	4 (22.2%)	-	-	-	5 (9.6%)	-	-	-
AST increased	-	-	-	-	9 (17.3%)	-	-	-
Platelets decreased	-	-	-	-	4 (7.7%)	2 (3.8%)	-	-
ALT increased	-	-	-	-	7 (13.5%)	1 (1.9%)	-	-
Pruritus	2 (11.1%)	-	-	-	5 (9.6%)	-	-	-
Pyrexia	-	-	-	-	3 (5.8%)	-	-	-
Decreased appetite	-	-	-	-	2 (3.8%)	-	-	-
Anemia	1 (5.6%)	-	1 (7.7%)	1 (7.7%)	5 (9.6%)	1 (1.9%)	-	-
Infusion reaction	-	-	-	-	4 (7.7%)	-	4 (18.2%)	-
Neutropenia / neutrophil count decrease	-	-	1 (7.7%)	-	2 (3.8%)	1 (1.9%)	3 (13.6%)	2 (9.1%)
Nausea	-	-	-	-	2 (3.8%)	-	2 (9.1%)	-
Alkaline phosphatase incr	-	-	-	-	3 (5.8%)	-	-	-
Arthralgia	-	-	-	-	3 (5.8%)	-	-	-
WBC decreased	-	-	-	-	3 (5.8%)	-	-	-
Myalgia	-	-	-	-	2 (3.8%)	-	-	-
Diarrhea	3 (16.7%)	-	-	-	-	-	-	-
Urticaria	3 (16.7%)	-	-	-	-	-	-	-
Lymphocyte count decreased	1 (5.6%)	1 (5.6%)	-	-	-	-	-	-
Headache	1 (5.6%)	-	-	-	-	-	-	-
Stomatitis	1 (5.6%)	-	-	-	-	-	-	-
Back pain	1 (5.6%)	-	-	-	-	-	-	-
Vision blurred	1 (5.6%)	-	-	-	-	-	-	-
Abdominal pain / abdominal pain upper	1 (5.6%)	-	-	-	-	-	-	-
Hypersensitivity	-	-	1 (7.7%)	1 (7.7%)	-	-	-	-
Pneumonitis	-	-	1 (7.7%)	-	-	-	-	-
Constipation	-	-	-	-	-	-	3 (13.6%)	-
Vomiting	-	-	-	-	-	-	2 (9.1%)	-



**ASPEN-06:
EVORPACEPT (ALX148)
IN HER2+ GASTRIC/GEJ CANCER**

GC TRIAL: EVORPACEPT + HERCEPTIN MECHANISM OF ACTION



Evorpcept increases antibody dependent cellular phagocytosis in combination with Herceptin

PHASE 1B ≥2 LINE GC TRIAL: EVORPACEPT + 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.



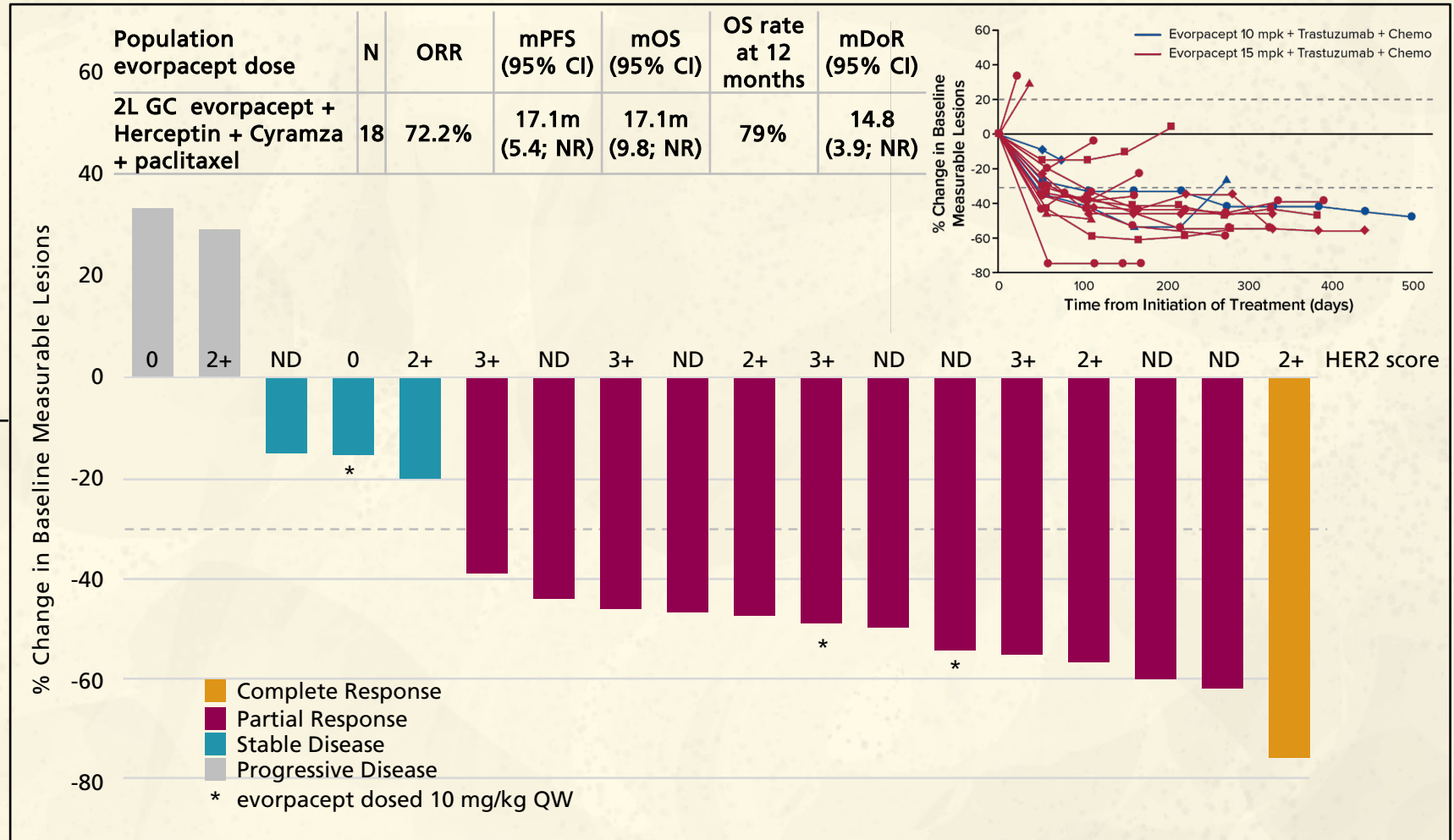
Treatment:

evorpacept 10 and 15 mg/kg (QW)
+ Herceptin
+ Cyramza
+ paclitaxel



Endpoint:

- safety of combination
- anti-cancer activity



Data Cutoff September 1, 2021. ND = Not Done. NR = Not Reached.

SECOND LINE GC: PLANNED RANDOMIZED PHASE 2 CLINICAL TRIAL, ASPEN-06

Randomized Phase 2:



Patients:
N=100

2L or greater HER2 positive GC
with prior HER2 targeted therapy



Treatment

evorpacept 30 mg/kg (Q2W)

+ Herceptin

+ Cyramza

+ paclitaxel

vs.

+ Herceptin

+ Cyramza

+ paclitaxel



Endpoint: • Anticancer activity: including ORR, DOR,
PFS, OS



Randomized Planned Phase 3:



Patients:

2L or greater HER2 positive GC
with prior HER2 targeted therapy



Treatment

evorpacept 30 mg/kg (Q2W)

+ Herceptin

+ Cyramza

+ paclitaxel

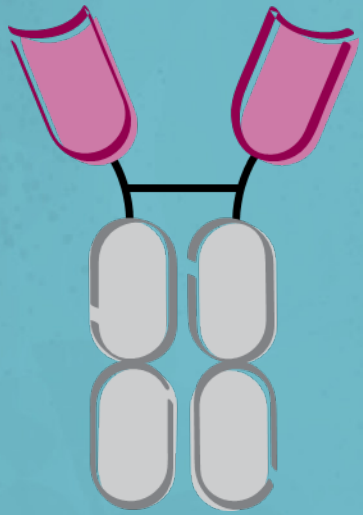
vs.

+ Cyramza

+ paclitaxel

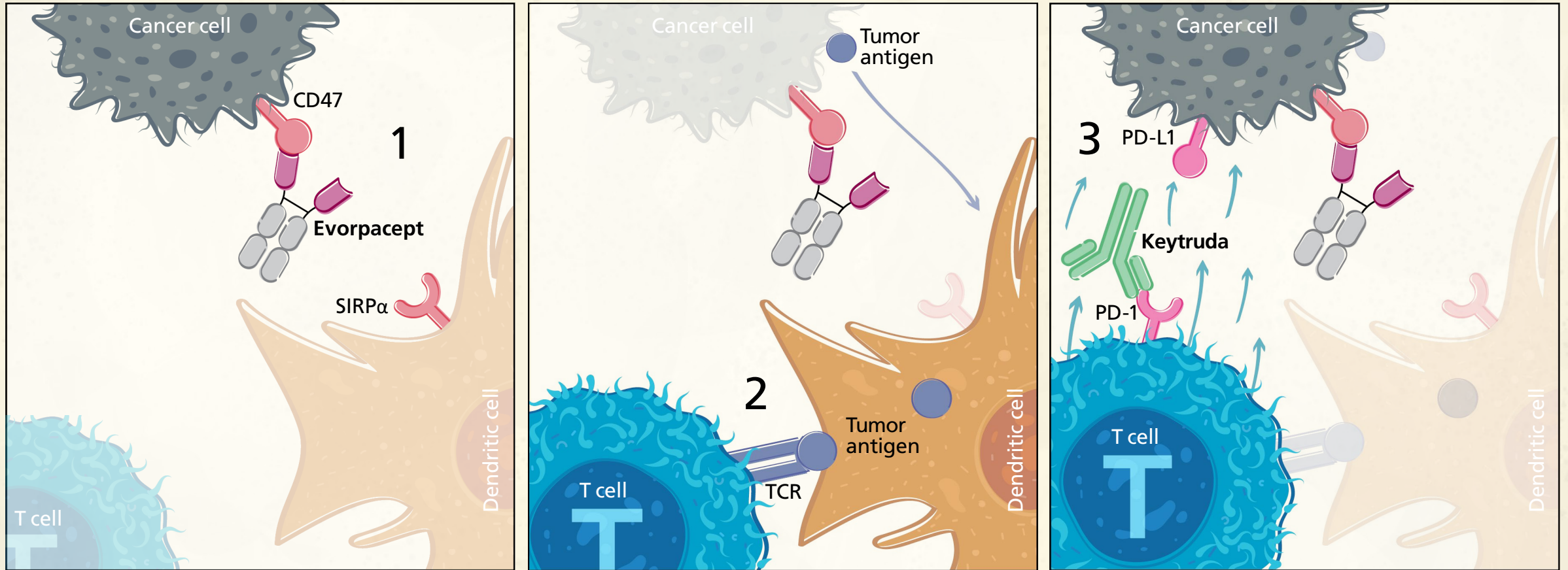


Endpoint: • Anticancer activity: including OS, PFS,
ORR, DOR



**ASPEN-03 AND ASPEN-04:
EVORPACEPT (ALX148)
IN 1L HNSCC**

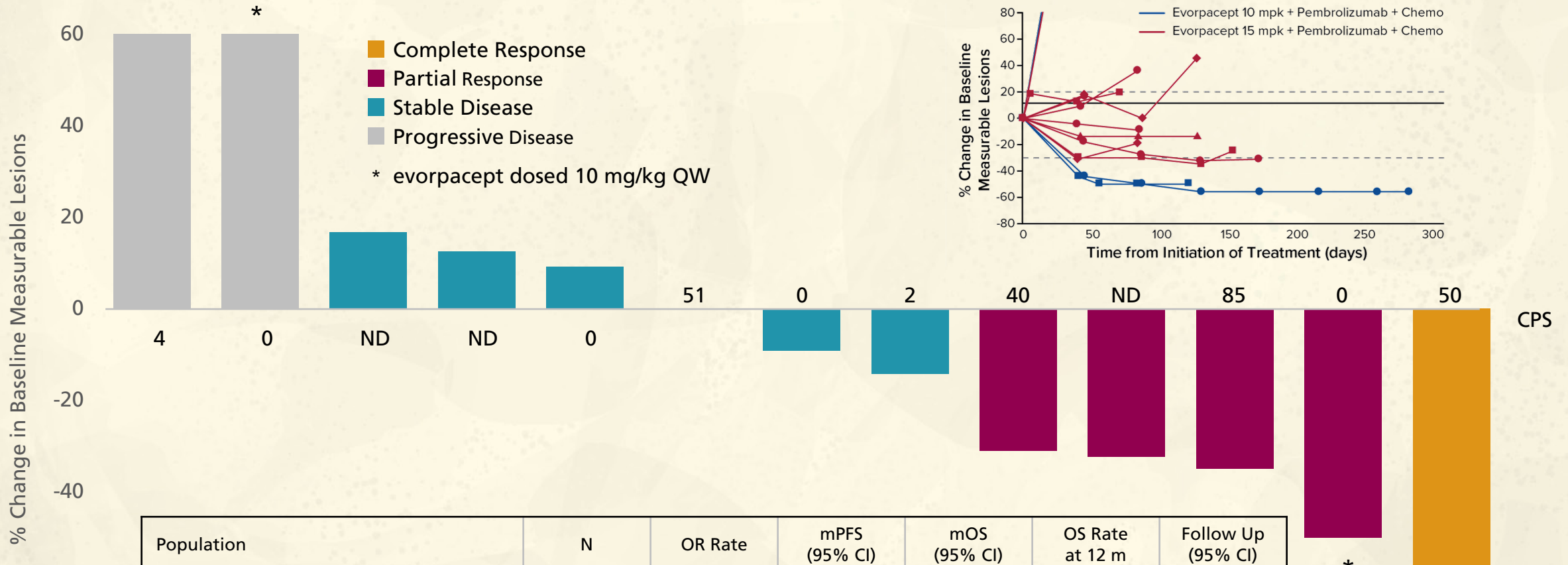
HNSCC TRIAL: EVORPACEPT + KEYTRUDA MECHANISM OF ACTION



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

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

Evorpacept + Keytruda + 5FU/platinum in 1L HNSCC



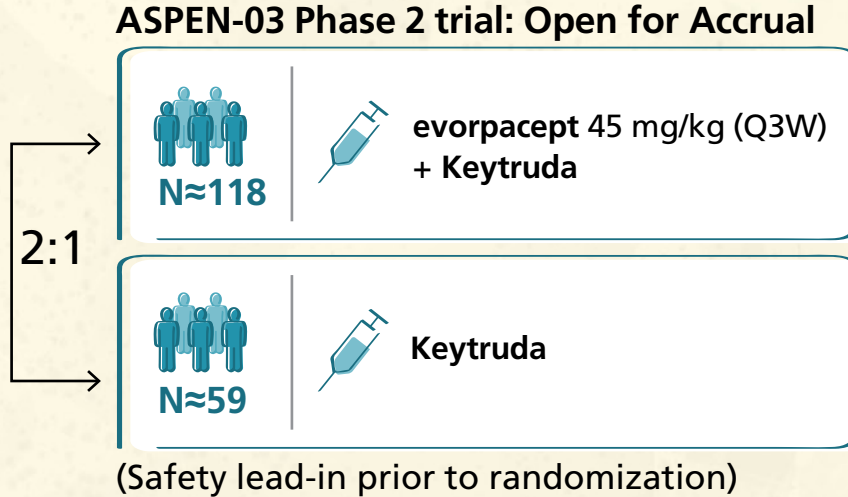
■ Complete Response
■ Partial Response
■ Stable Disease
■ Progressive Disease

* evorpacept dosed 10 mg/kg QW

Population	N	OR Rate	mPFS (95% CI)	mOS (95% CI)	OS Rate at 12 m	Follow Up (95% CI)
1L HNSCC (Evorpacept 10 mg/kg or 15 mg/kg + Keytruda + chemo)	13	38.5%	5.6m (3.6; NR)	NR	87.5%	6.2m (4.7; 10.6)
≥2L HNSCC (CPI naïve) (Evorpacept 10 mg/kg + Keytruda)	10	40%	4.6m (0.5; 7.5)	24.5m (3.1; NR)	80%	32.5m (26.9; NR)

FIRST LINE HEAD & NECK CANCER: PHASE 2 DEVELOPMENT PLAN, ASPEN-03 AND ASPEN-04

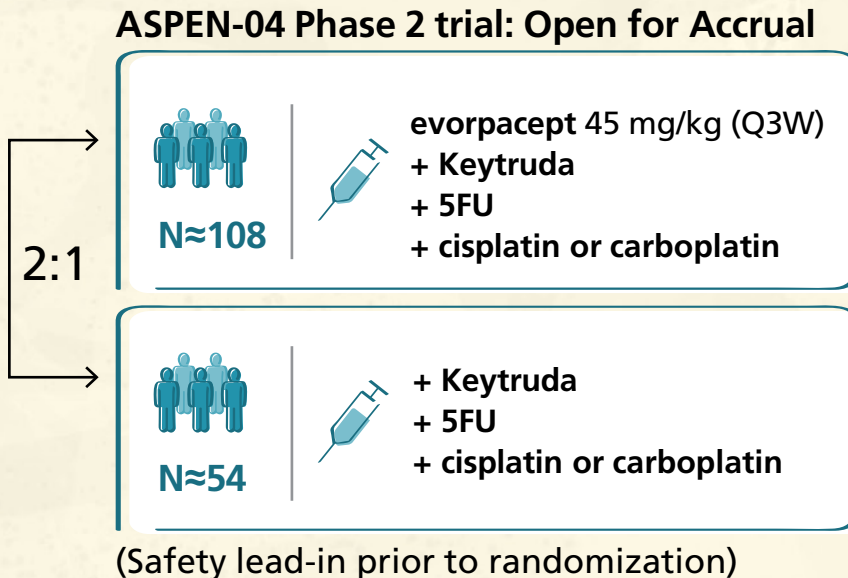
evorpacept
+
Keytruda



- First patient enrolled May 2021

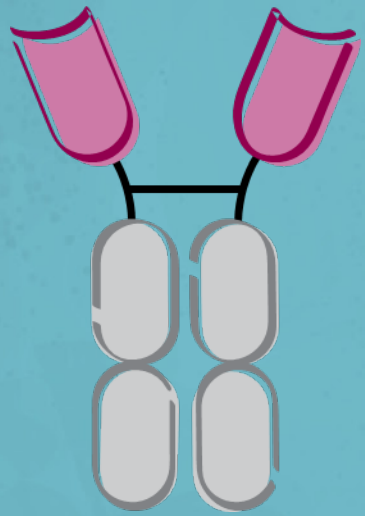
- ⊕ Co-Primary Endpoints:
- 12-month OS rate
 - ORR

evorpacept
+
Keytruda
+
chemo



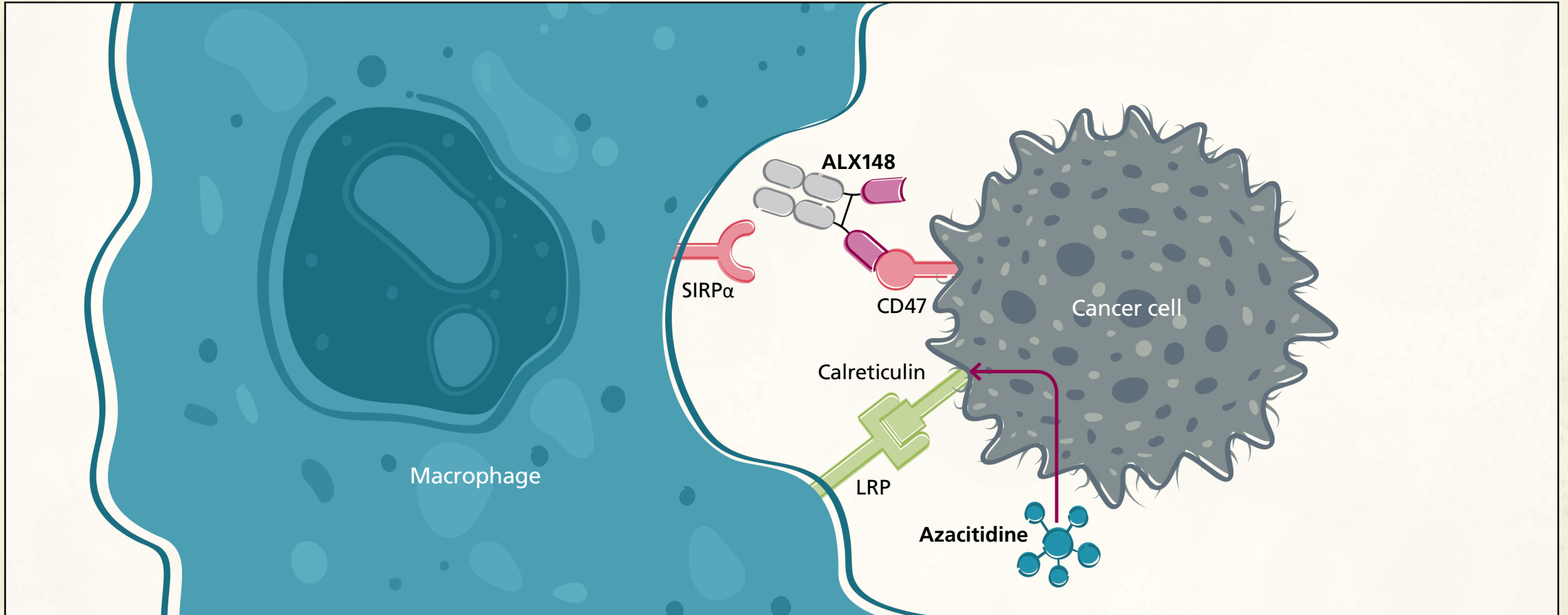
- First patient enrolled July 2021

- ⊕ Co-Primary Endpoints:
- 12-month OS rate
 - ORR



EVORPCEPT (ALX148) IN HEMATOLOGIC MALIGNANCIES

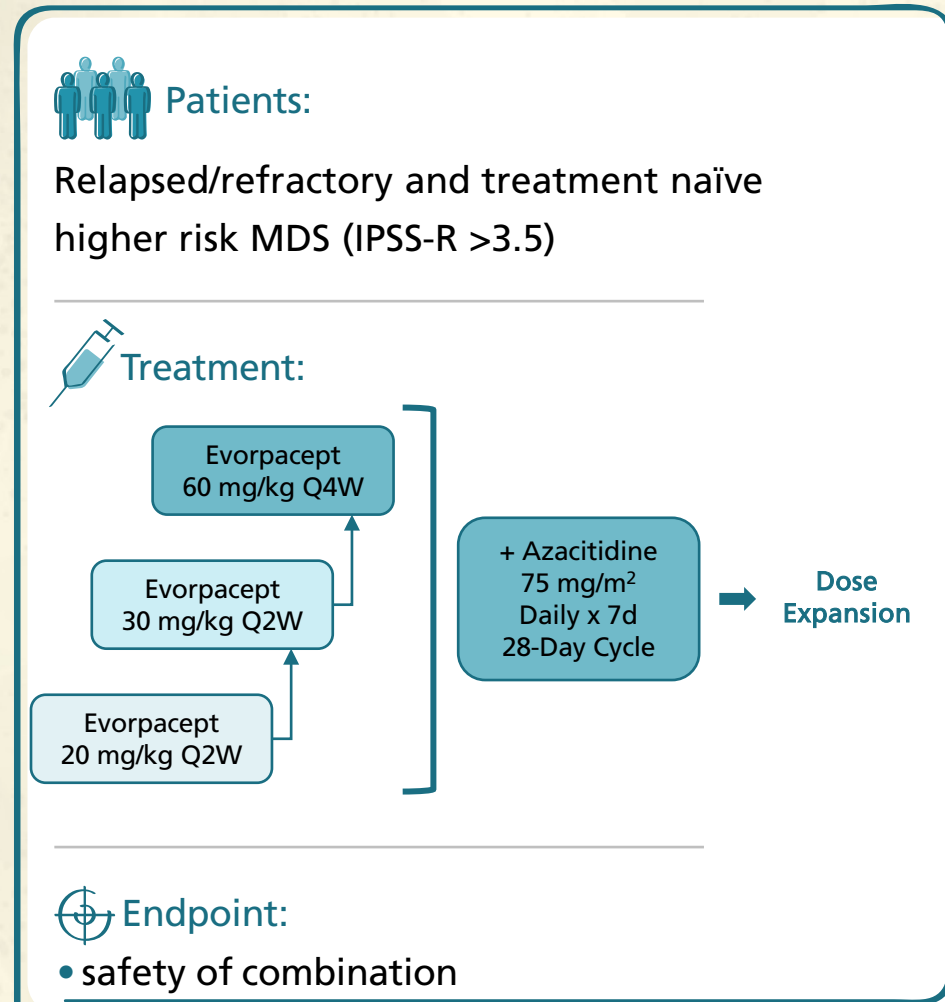
MDS TRIAL: ALX148 + AZACITIDINE MECHANISM OF ACTION



ALX148 increases pro-phagocytic signal provided by azacitidine

MDS TRIAL: DESIGN AND PATIENT BASELINE CHARACTERISTICS

Phase 1 Design



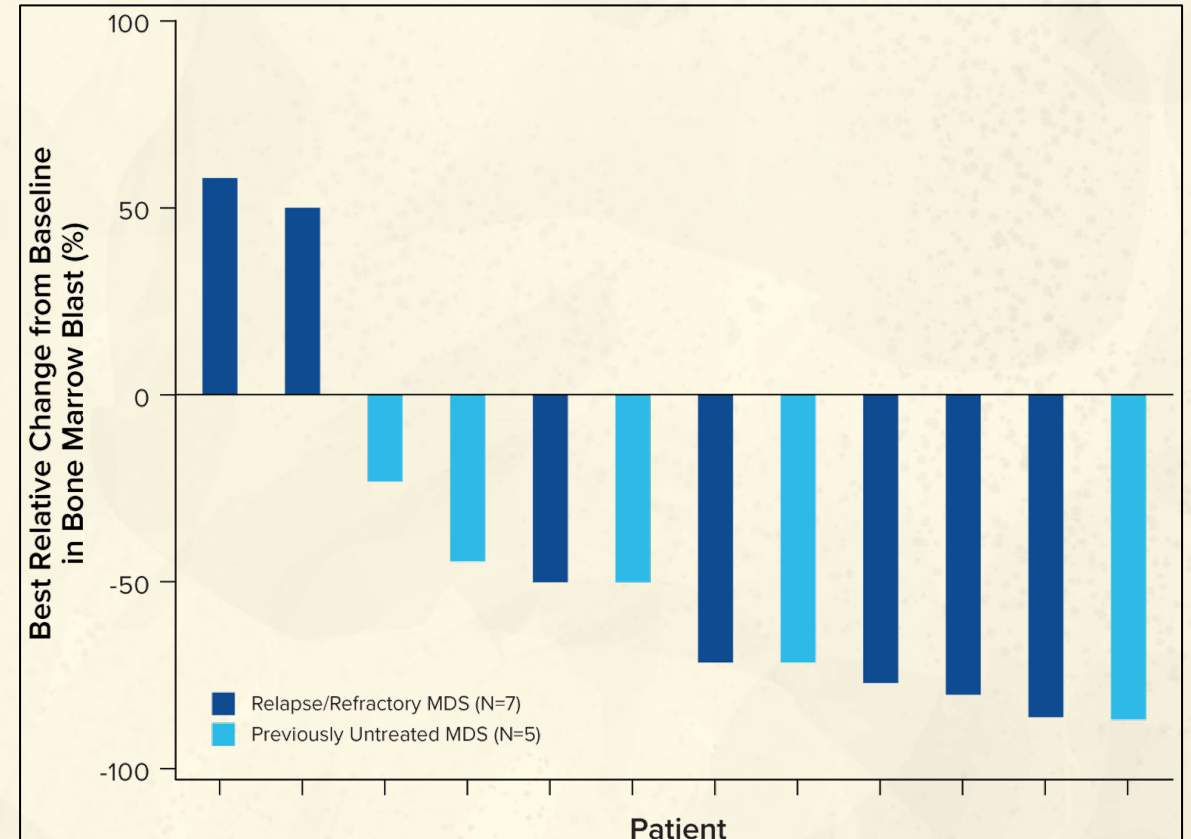
Patient Baseline Characteristics

		evorpacept + azacitidine (N=22)
Median age, years (range)		70.5 (56 – 81)
Sex, n	F	8
	M	14
Race, n	White	17
	Black	4
	Unknown	1
ECOG PS, n	0	6
	1	16
	2	0
MDS Status, n	Previously untreated HR-MDS	9
	• Therapy related	6
	Relapsed/Refractory MDS	13
	• Prior HMA treatment	13
IPSS-R Score	Mean	6.0
	Median	5.8
	Min-Max	1.0-10.0
Mutation Status, n (%)	TP53	8 (36%)
	ASXL1	4 (18%)
	TET2	3 (14%)
	DNMT3A	2 (9%)
	SF3B1	1 (4.5%)
	SRSF2	1 (4.5%)
	RUNX1	1 (4.5%)
Cytogenetic Risk at Diagnosis, n (%)	Very Good	0
	Good	2 (9%)
	Intermediate	0
	Poor	2 (9%)
	Very Poor	8 (36%)
	Not Available	10 (45%)

PHASE 1A MDS: EVORPACEPT + AZACITIDINE FOR PREVIOUSLY UNTREATED HIGHER RISK (HR) MDS AND RELAPSED/REFRACTORY MDS

Initial Patients' Data Presented at ASH 2021

	Previously Untreated HR-MDS (N=6)	Previously Untreated HR-MDS with TP53 mutation (N=5)	Relapsed/Refractory MDS (N=9)#
ORR	3 (50%)	3 (60%)	5 (56%)*
CR	2 (33%)	2 (40%)	0
PR	0	0	0
Marrow CR	1 (17%) with HI	1 (20%) with HI	5 (56%)*
HI	0	0	0
SD	2 (33%)	1 (20%)	2 (22%)
PD	1 (17%)	1 (20%)	1 (11%)



Data Cutoff 25Oct2021; Response evaluable population (n=15); *includes 3 unconfirmed responses; #One subject with an unrelated G5 event prior to first disease assessment; On graphic, 2 subjects (1 Relapsed/Refractory and 1 Previously Untreated) with missing data and the previously described subject with an unrelated G5 event not represented.

ORR – Objective response rate; CR – Complete response; PR – Partial response; HI – Hematologic improvement; SD – Stable disease; PD – Disease progression

MDS TRIAL PLANS, ASPEN-02

Phase 1 Dose Escalation: Accrual Complete

 Patients:

N~18

Relapsed/refractory and treatment naïve higher risk MDS (IPSS-R >3.5)

 Treatment:

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

 Endpoint:

- safety of combination

Phase 1 Dose Expansion: Open for Accrual

 Patients:

N~40

Treatment naïve higher risk MDS (IPSS-R >3.5)

 Treatment:

evorpacept
40 mg/kg (Q4W)
or 60 mg/kg (Q4W)
+
azacitidine

 Endpoint:

- safety of combination

Phase 2 Randomized Trial

 Patients:

Treatment naïve higher risk MDS (IPSS-R >3.5)

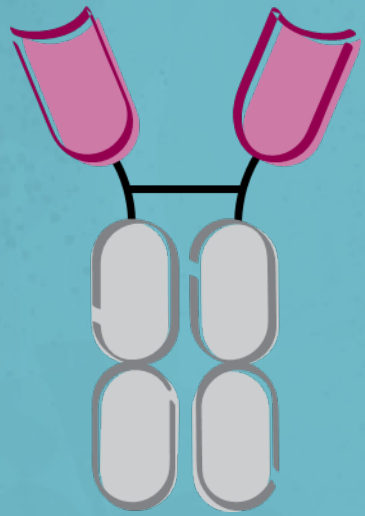
 Treatment:

evorpacept
recommended phase 2 dose
+
azacitidine

vs.
azacitidine

 Endpoint:

- complete response rate (CRR)



EVORPACEPT (ALX148) CLINICAL ACTIVITY ACROSS INDICATIONS

EVORPACEPT'S INITIAL CLINICAL ACTIVITY IS MAGNIFIED IN SURVIVAL-BASED ENDPOINTS ACROSS SOLID TUMOR TYPES IN MULTIPLE TRIALS

Population	≥2L HER2+ GC		1L HNSCC		≥2L HNSCC (CPI-Naïve)	
Combination (N-evaluable)	evorpacept + Herceptin + Cyramza + paclitaxel (N=18)		evorpacept + Keytruda + 5FU + platinum (N=13)		evorpacept + Keytruda (N=10)	
ORR	evorpacept 72%	benchmark ¹ 28%	evorpacept 39%	benchmark ² 36%	evorpacept 40%	benchmark ³ 15%
mPFS (months)	17.1	4.4	5.6	4.9	4.6	2.1
mOS (months)	17.1	9.6	NR	13.0	24.5	8.4
OS rate at 12 months	79%	40%	88%	53%	80%	37%
Benchmark regimen	Cyramza + paclitaxel		Keytruda + 5FU + platinum		single agent Keytruda	

EARLY DATA SHOWS EVORPACEPT COMBINATIONS HAVE ACHIEVED COMPLETE RESPONSES IN AGGRESSIVE HEMATOLOGIC MALIGNANCIES

ASPEN-02

Population	Previously untreated higher risk myelodysplastic syndromes (MDS) with TP53 mutation		Relapsed / refractory MDS
	Evorpcept + azacitidine	Magrolimab + azacitidine ¹	Evorpcept + azacitidine
N-evaluable	5	4	9
CR	2	2	-
mCR	1 with HI	1	5*
SD	1		2

ASPEN-01

Population	≥2L aggressive non-Hodgkin's lymphoma	
	Evorpcept + Rituximab ²	Magrolimab + Rituximab ³
N-evaluable	21	38
ORR (%)	8 (38%)	11 (29%)
CR (%)	1 (5%)	2 (5%)
PR (%)	7 (33%)	9 (24%)

CR = complete response; mCR = marrow complete response; SD = stable disease; HI = hematologic improvement; ORR = overall response rate; PR = partial response. Evorpcept data in MDS as of October 25, 2021. Evorpcept data in NHL as of October 1, 2020. *Includes 3 unconfirmed responses.

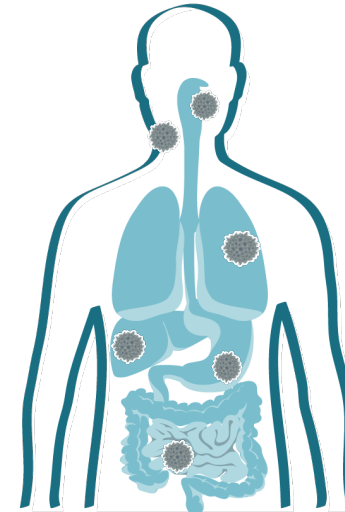
1) Sallman, ASCO 2020; 2) Aggressive NHL includes DLBCL and MCL; 3) Roschewski, EHA 2019, Ph2 data, DLBCL only.

EVORPACEPT IS DESIGNED TO BE A CORNERSTONE OF CANCER TREATMENTS

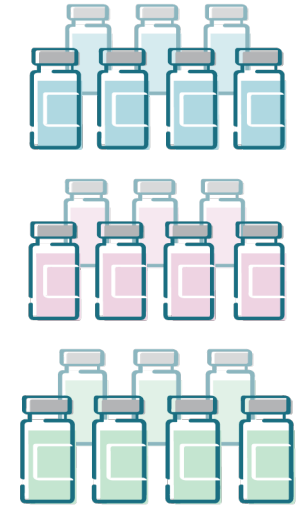
Evorpacept's ongoing clinical development plan encompasses significant development opportunities...

Indication	Combination Agent	Discovery	IND Enabling	Phase 1	Phase 2	Phase 3
SOLID TUMORS	HNSCC Head And Neck Squamous Cell Carcinoma	Keytruda (ASPEN-03)	██████████	██████████	██████████	
		Keytruda + 5FU + Platinum (ASPEN-04)	██████████	██████████	██████████	
		Herceptin (ASPEN-01)	██████████	██████████	██████████	
Breast Cancer		Herceptin + Cyramza + Paclitaxel (ASPEN-06)	██████████	██████████	██████████	
		Zanidatamab	██████████	██████████	██████████	
HEMATOLOGY	MDS Myelodysplastic Syndromes	Azacitidine (ASPEN-02)	██████████	██████████	██████████	
	AML Acute Myeloid Leukemia	Azacitidine + Venclexta (ASPEN-05)	██████████	██████████	██████████	
	NHL Non-Hodgkin's Lymphoma	Rituximab (ASPEN-01)	██████████	██████████	██████████	

And is designed to be active across more tumor types and anti-cancer combinations

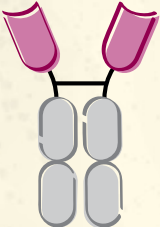


Continued expansion of immuno-oncology activity across tumor types



Combined with standard of care and emerging anti-cancer modalities

2022 FOCUSED ON DRIVING CLINICAL DEVELOPMENT

	Completed	2022	2023	2024
 <p>Evorpacept</p>	<p>ASPEN-01 (Phase 1b) Updated gastric/GEJ and HNSCC trial data at SITC</p>	<p>ASPEN-06 Initiation (Phase 2/3) Randomized gastric/GEJ cancer trial</p>	<p>ASPEN-06 (Phase 2) Randomized gastric/GEJ cancer trial readout</p>	<p>ASPEN-03 (Phase 2) Randomized HNSCC trial readout with pembrolizumab</p>
	<p>ASPEN-02 (Phase 1a) Initial MDS trial readout at ASH</p>	<p>ASPEN-02 (Phase 1b) MDS dose optimization trial readout</p>	<p>ASPEN-05 (Phase 1a) AML trial readout</p>	<p>ASPEN-04 (Phase 2) Randomized HNSCC trial readouts with pembrolizumab and chemo</p>
	<p>ASPEN-03 Initiation (Phase 2) Randomized HNSCC trial with pembrolizumab</p>	<p>Ongoing collaborations (Zymeworks) and Investigator Sponsored Trials (NHL)</p>		
	<p>ASPEN-04 Initiation (Phase 2) Randomized HNSCC trial with pembrolizumab and chemo</p>			
	<p>ASPEN-05 Initiation (Phase 1a) AML trial</p>			
<p>Preclinical pipeline</p>	<p>Built pipeline through ScalmiBio acquisition and Tallac collaboration</p>	<p>Select clinical development candidates from preclinical pipeline</p>	<p>File IND for ALTA-002</p>	