

First in class engineered T cells for safer, more efficacious and durable therapies in solid tumors

Q2 2023

Rationally designed T-cell Antigen Coupler (TAC) platform technology

Ability to develop safer & effective T cell medicines for solid tumors

2023

Start of 2 HER2 Phase 2 trials

Start of Claudin 18.2 Phase 1 trial

2024

Start of γδ allogeneic clinical program



Clear line of sight to 1st approvable indication in 3L gastric cancers Lead HER2 program: strong PRs, remarkable safety profile with no ICU visits for CRS and no neurotox: validation of the TAC platform for the future of T cell medicines

Phase 2 trial mono and in combination with Keytruda®; opportunity to pursue 3L and 2L gastric cancer indications

2nd Program targeting Claudin18.2 adds to building a gastric cancer franchise

Efficient & scalable autologous manufacturing with 100% success rate to date

Experienced management team



Paul Lammers, MD, MSc **CEO** EMD Serono, Mirna Therapeutics, Organon



Robert Williamson President & COO Haya Therapeutics, BioTheryx PharmAkea, Pharmasset, Eos



Andy Bader, PhD **CSO** Asuragen, Mirna Therapeutics, **Orros Biotherapeutics**



Deyaa Adib, MD CMO Bellicum, Baxalta, Astellas, Ariad, Rain Oncology Inc., Sanofi Aventis



Donna Rill CTO Cell Medica, Opexa Therapeutics, Baylor College of Medicine



Jon Irvin **SVP of Finance** Esoterix Laboratory Services, Ernst & Young, Bio Numerik



Cynthia Molina VP, Regulatory Affairs Cell Medica, Agennix



Chris Murray VP, Human Resources Bellicum, Lonza

~70 EMPLOYEES

60% | US **40%** | Canada

CORPORATE HQ Austin, TX

R&D AND MSAT LAB Hamilton, ON

GMP MANUFACTURING FACILITY

South San Francisco, CA

FINANCING >\$102M Series A





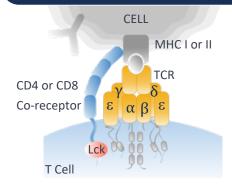




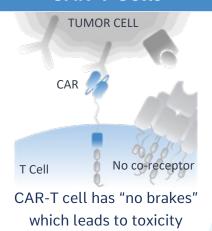
TAC T cells are designed to improve safety, efficacy, and durability over CAR T

Mimic natural T cell activation while maintaining MHC independence

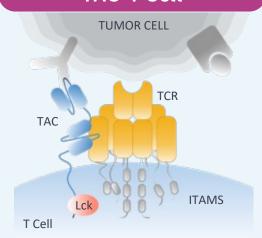
Natural T Cell Biology



CAR-T Cells



TAC-T Cell



Intracellular
co-receptor domain
of TAC adds key
regulatory control
and mimics natural
T cell activation

No activation nor co-stimulatory domains

Composition of matter patents granted in US, CN, JP, HK, AU, MX, KR

KEY ATTRIBUTES

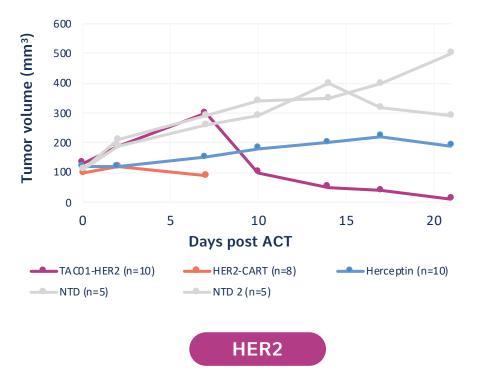
- No tonic signaling or premature exhaustion
- Normal immune synapse
- Controlled, low & effective cytokine release
- Deep penetration & activation in tumors
- T cell persistence (majority memory CD8 cells)



Strong scientific & clinical rationale for gastric cancer franchise

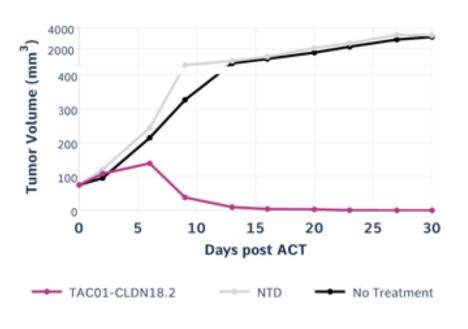
Supported by compelling preclinical and growing clinical data

TAC100-HER2 reduces tumor burden in Herceptin® — sensitive gastric cancer mouse model*





TAC101-Claudin18.2 depletes gastro-esophageal cancer model (n=6/group) **



Claudin 18.2

¹ NTD = Non Transduced

^{*} Study conducted by corporate partner, who considered this 'stunning data"

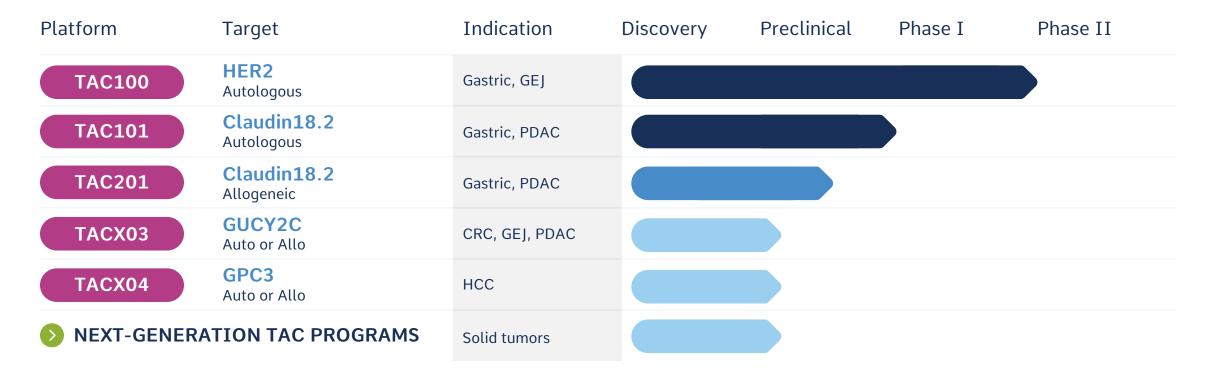
Triumvira is building a foundation in gastric & gastro-intestinal cancer

Expansion into other tumors and therapeutic areas through existing pipeline and partnerships

Autologous

Allogeneic

Autologous / Allogeneic | TBD





Phase 1 study showed differentiated safety profile over CAR T therapy



Zero

neurotoxicity events, and no **ICU** admissions





One

≥ grade 3 CRS, at dose level 4





One

dose limiting toxicity that was target related

MOST COMMON TOXICITIES

observed in all cohorts were lymphodepletion related

Hematologic toxicities

most resolved in



 \leq 24 days



Phase 1 study showed differentiated safety profile over CAR T therapy

No ICANS, no ICU admissions, only 1 grade 3 CRS

Dose Levels 1 (n=4), 2 (n=4), 3 (n=3) & 4 (N=8) Adverse Events

	Adverse Event**	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	
AEs by Severity	Anemia	4	7	4	0	0	Lymphodepletion associated
	WBC Count Decreased	2	4	4	1	0	
	Neutrophil Count Decreased	3	5	2	0	0	
	Lymphocyte Count Decreased	1	1	2	0	0	
	Thrombocytopenia	1	1	2	0	0	L
	Hypo-albuminemia	3	1	0	0	0	
	Blood Fibrinogen Increased	2	0	0	0	0	
	ALT increased	4	0	0	0	0	
	Tachycardia	2	0	0	0	0	
	Fatigue	2	0	0	0	0	
	Cytokine Releases Syndrome	5	6	1	0	0	CAR Risks
	ICANS (neuro-toxicity)	0	0	0	0	0	Q <u>\(\text{\tint{\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi{\text{\tex{\tex</u>
	Pneumonitis (immune-related toxicity, D15-27 post dose w/o ICU)	0	0	1	0	0	TAC-T Related

Non-Confidential

	Percent CRS Grade ≥3	Percent Neurotoxicity
Kymriah® USPI	0-48%	43-71%
Yescarta® USPI	8-9%	74-87%
Carvykti® USPI	5%	26%
TAC100-HER2 Ph 1 trial	5%*	0%

* 1/19 patients

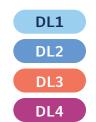
1 Grade 3 pneumonitis at Dose Level 4 = only Dose Limiting Toxicity

Drug Safety Monitoring Committee decided on **DL 4 (6-8 X 10⁶ TAC+ T cells/kg) as Recommended Phase 2 Dose**

^{*} Across different indications; based on US Package Inserts

^{**} Notes: Safety Data as of 24-Apr-23. Most frequent and relevant AEs are reported

Phase 1 study clinical results viewed very favorably by trial oncologists



83% Disease control rate and 33% ORR across dose levels 2-4 in 3L+ GE cancer

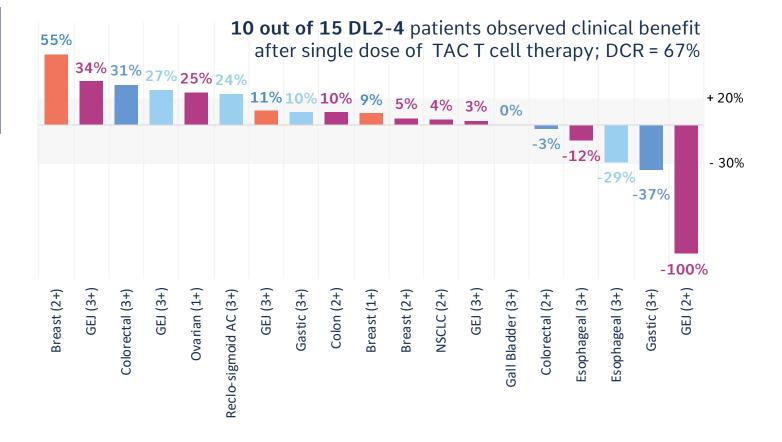
Phase 1 Refractory Cancer Patients
19 patients previously exposed
to a range of 2-12 therapies

Results in DL2-4 gastric & esophageal cancer patients

DCR 83% at 1st assessment

2 PRs (1 CR of target lesion)

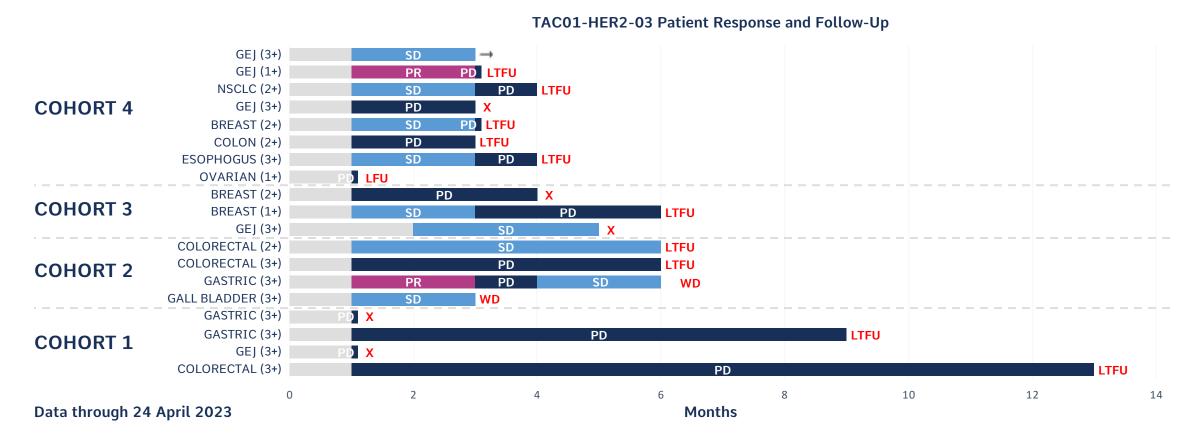
ORR 33% exceeds current SOC of 4% in 3L+ (Shitara et al 2018)



Phase 1 study clinical results viewed very favorably by trial oncologists

SD
PR
CR
PD
X Death
→ Alive

83% Disease control rate and 33% ORR across dose levels 2-4 in 3L+ GI cancer



TREATMENT HISTORY

Diagnosed in 2021

- Chemotherapy + HER2-Bispecific mAb therapy (best response → Partial response)
- Chemotherapy + Herceptin®
- Palliative Radiotherapy (x2)
- Bridging chemotherapy for 3 cycles prior to TAC100-HER2 infusion → patient in progression
- Received DL2 TAC100-HER2 cells after cy/flu LDC

The first partial response seen in gastric cancer

Underscoring potential of TAC100 in gastric cancers

Stage 4b Gastric Adenocarcinoma

42 year old male; ECOG = 0; Central HER2 Status: 3+ (IHC), + (FISH)

RECIST 1.1 Tumor Response Assessment

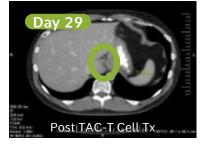
(Measurable Disease)

20 MM

Target Lesion

13 MM





CHANGE

- 36.5%

Safety

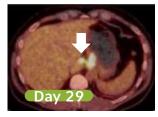
Infusion well tolerated

No SAEs, AEs of special interest, or DLTs

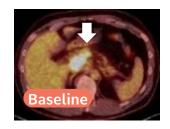
PET Scan Results Evaluable Tumor Reduction

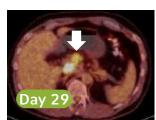
Gastrohepatic Node Decrease in Size





Periportal Mass Decrease in Size





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TREATMENT HISTORY

De novo metastatic disease in 2017

- 1L FOLFOX / Herceptin® → PR →
 FOLFOX dropped for neuropathy → PD
- 2L FOLFIRI / Herceptin® → PR → PD
- 3L Enhertu® → PD
- 4L taxol/ramucirumab → PR → PD
- Bridging therapy with taxol + ramucirumab + Herceptin®
- Upon progression, received DL4
 TAC100-HER2 cells post flu/cy LDC

Second partial response in GEJ with a 100% reduction of target lesion

Underscoring potential of TAC100 in gastric cancers

Advanced Gastro-Esophageal Junction Cancer

59 year old male; HER2 Status: 2+ (IHC), + (FISH)



Primary lesion (3 cm)



100% reduction of Primary lesion (CR), but small increase in pelvic free fluid + new sub-centimeter lymph node lesions

RECIST Score: PARTIAL RESPONSE

3

Phase 1 results efficacy signals registrationenabling phase 2 trial in gastric & esophageal adenocarcinomas

Key Phase 2 Trial Design Elements



Phase 2 trials to start in Q3 of 2023:

- TAC100 Mono-therapy (n=36 pts.)
- TAC100 Combination therapy with Keytruda ® (n=34 pts.)
- Simon 3 Stage Design













Recognition by GI onc medical community validated the strength of TAC100 data and highlighted the unmet medical need

We anticipate initial approval and launching in underserved gastric & esophageal cancer

ADDRESSABLE POPULATION 10,500 48,000 (22%)**GEA Cases** HER2+ GEA Cases annually in U.S annually in U.S. ACS 2023.









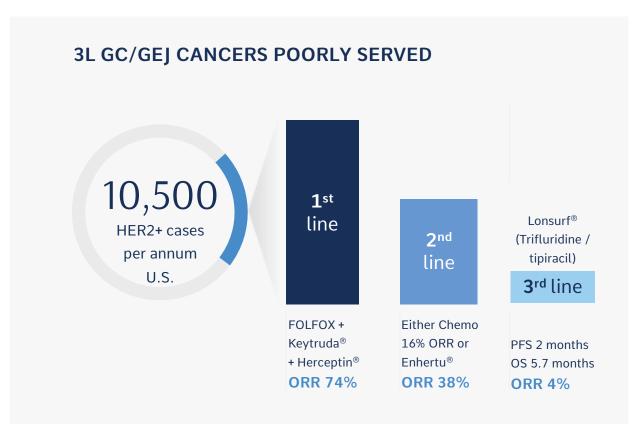




The acceptance for presentation at the most important annual medical & scientific meetings serves as a validation of the interest in our TAC T technology, the phase 1 results to date in solid tumors, and their clinical relevance.

Registrational Phase 2 trial design defines first target indication

3rd Line with upside in 2nd and 1st lines, and potential for chemotherapy sparing regimen



TARGET OUTCOME FOR PHASE 2 TRIAL WILL POSITION TAC100 AS SOC IN 3L HER2+ GASTRIC & ESOPHAGEAL CANCERS

Monotherapy Clinically Meaningful Target:

An ORR of ~20% & DOR 4 months

PFS = 4.5 months

OS = 8 months

Combo With Keytruda:

3rd line ORR of 25% & DOR 5-6 months

3rd line results to establish new SOC of Keytruda + TAC in 2nd line setting

Data Driven & Efficient Simon 3 Stage Design for Phase 2

DOR= Duration of Response; ORR=Objective Response Rate; PFS= Progression Free Survival; OS= Overall Survival

3

Compelling preclinical data supports selection of Claudin18.2

Targeting Claudin18.2 positive cancers expands biomarker-driven gastric franchise

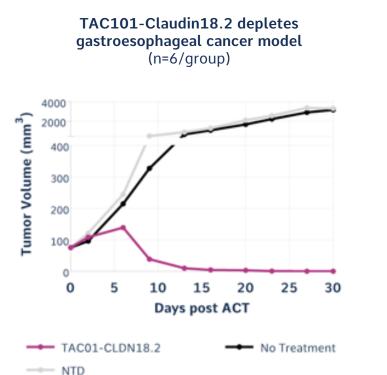


Claudin 18.2 selectively expressed in tight junctions

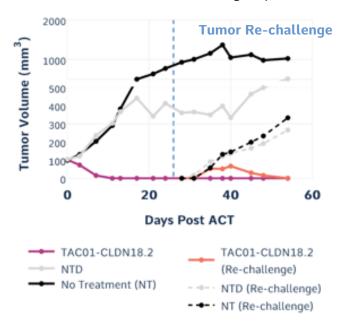
between normal gastric cells, and not visible to T cells.

In cancer, Claudin 18.2 expression becomes visible

to T cells, opening up targeting ability



TAC101-Claudin18.2 depletes tumors and protects against tumor re-challenge in gastric cancer model (n=4/group)



High expression of Claudin 18.2 seen in 25-40% of gastric cancers, 24-55% in pancreatic cancers (PDAC)

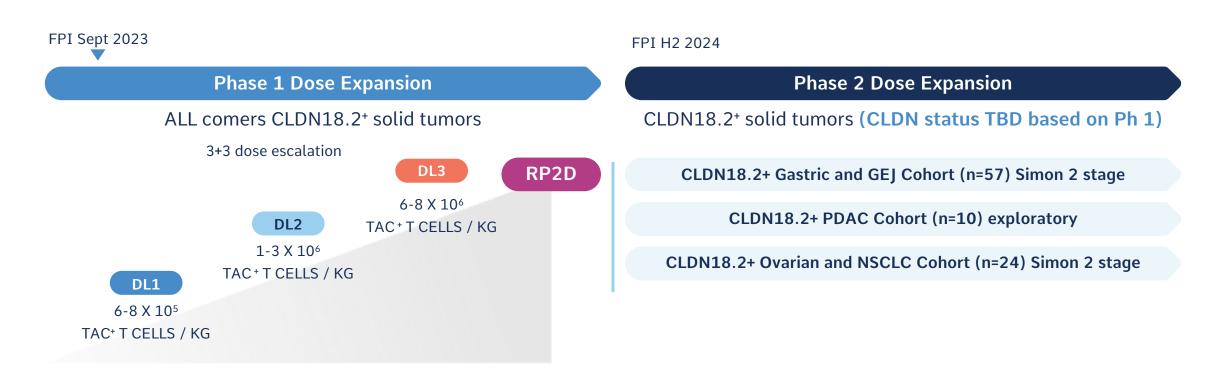
TAC-Claudin18.2 also shows in vivo efficacy in pancreatic cancers

IND submission anticipated in Q2 2023

16

Claudin18.2 program is on track to dose first patient in Sept 2023

Accelerated path to phase 2 based on HER2 program learnings

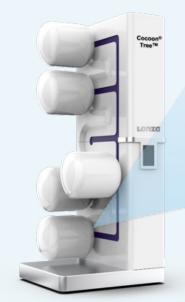


A 2nd dose may be administered if subjects meet clinical response & safety criteria All patients will receive Lymphodepletion prior to infusion Simon 2 Stage design for Phase 2 based on anticipated ORR of 40%

Expected RP2D at DL3 = TAC100-HER2 DL4 dose equivalent



COCOON® TREE



Single Cocoon® Platform unit

Holds 5 Cocoon® platforms in same footprint as single unit

Quality



100% Success rate to date

High cell yields & option to re-dose

High cell quality/ consistency

Cost



~40% Lower cost at scale

Smaller Facility/

Fewer FTEs

Plug and Play Scalable

Time



9 Days start to finish

Enclosed automated

Cocoon

21-24 days vein-to-vein

First mover advantage in automated autologous manufacturing

Three years of experience paying off with reliable clinical supply and commercial-ready products

COCOON® PLATFORM

from Lonza

industrializes and automates autologous cell manufacturing processes Triumvira's GMP facility in South San Francisco holds

8 COCOON® PLATFORMS

Current capacity to manufacture

TAC-T Cells

> 200 pts/year

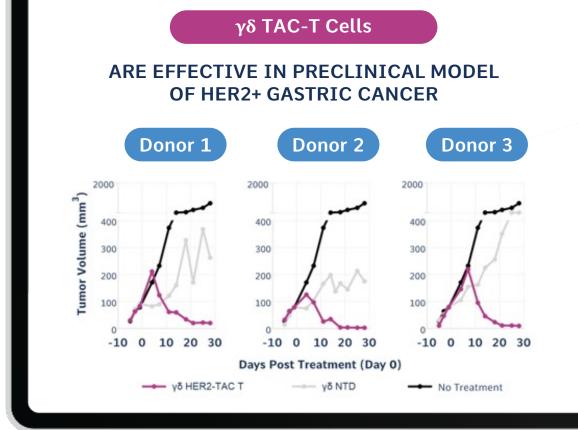


Fast follower allogeneic gamma-delta T cell program enabled by modular TACs

Donor derived Gamma-Delta program on track for IND 1H-2024

Clear benefits for using Gamma-Delta T cells for allogeneic

Unique Naturally primed Kills via adaptive & anti-tumor innate mechanisms to penetrate biology peripheral tissues Ideal cell Relatively No need Low/no risk of source for gene editing abundant **GvHD** Clear Off-the-shelf Rapid treatment Lower cost of **Treatment** with opportunity for goods **Benefits** frequent re-dosing



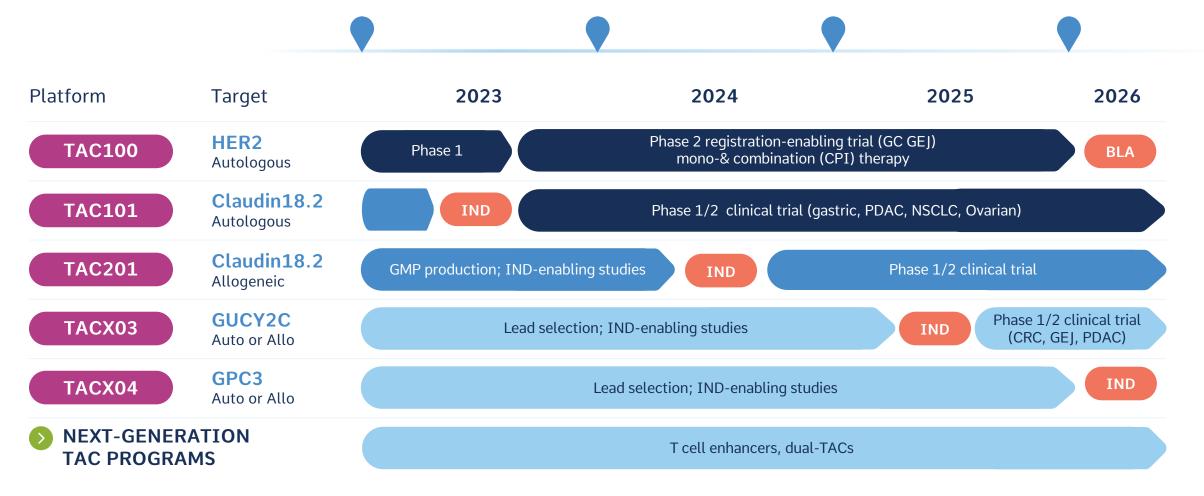


4 INDs & 1 BLA over next 36 months

Autologous

Allogeneic

Autologous / Allogeneic | TBD





Significant clinical news flow

2023

CLINICAL

TAC100

HER2 Phase 2 initiation: monotherapy and in combo with Keytruda in GC/GEJ cancers

TAC101

Claudin18.2 IND
Phase 1 initiation and FPI

2024

CLINICAL

TAC100

HER2 Phase 2 fully enrolled

TAC101

Claudin18.2 Phase 1 data & RP2D

TAC201

Claudin18.2 Allo IND and FPI

2025

CLINICAL

TAC100

HER2 Phase 2 completed and BLA initiation EOY

TAC101

Claudin18.2 RP2D, Phase 2 initiation

TAC201

Claudin18.2 Allo Expansion

GUCY2C

IND & FPI

- 3

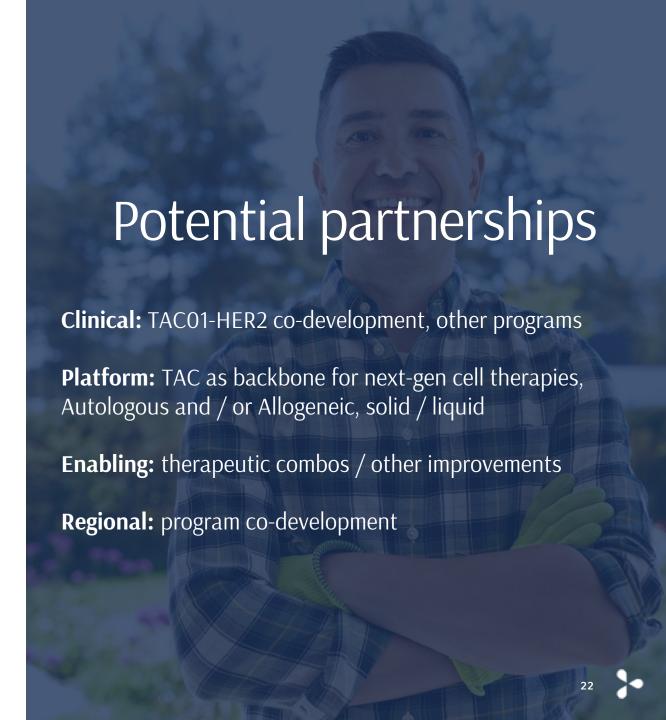
Partnering at Triumvira

Existing agreements



In-licensed novel binders

PD-1 supply agreement with Merck



Rationally designed T-cell Antigen Coupler (TAC) platform technology

Ability to develop safer & effective T Cell medicines for solid tumors

2023

Start of 2 HER2 Phase 2 trials

Start of Claudin 18.2 Phase 1 trial

2024

Start of γδ Allogeneic clinical program



Clear line of sight to 1st approvable indication in 3L gastric cancers Lead HER2 program with strong PRs, no ICU visits for CRS, no neurotox, and ability to re-dose validate the platform for the future of T cell medicines

Phase 2 trial in combination with Keytruda® will provide opportunity to pursue 2L gastric cancer indication

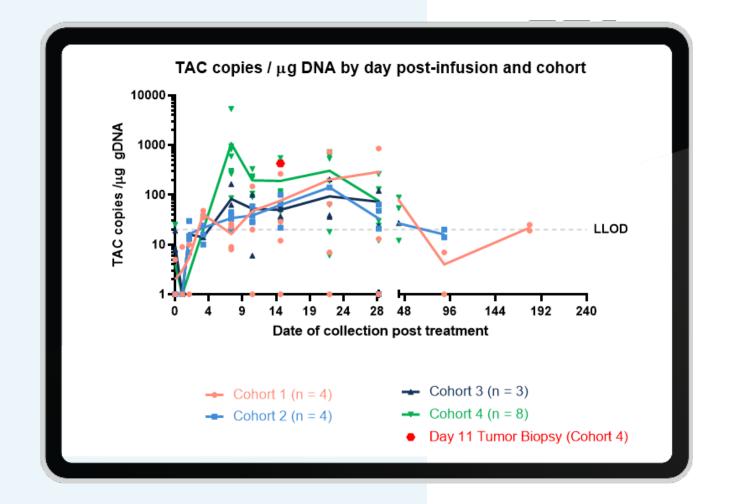
2nd Program targeting Claudin18.2 adds to building a gastric cancer franchise

Efficient & scalable autologous manufacturing with 100% success rate to date



First in class engineered T cells for safer, more efficacious and durable therapies in solid tumors

Q2 2023



TAC detected in blood and tumor biopsy



PK levels at Dose Level 4 higher than at lower dose levels

BLOOD PK

Unequivocal detection of TAC in blood

Exposure greatest in DL4 (AUC, Cmax)

Tmax earlier in higher dose levels

TUMOR PK

Unequivocal detection of TAC in a Day 11 tumor biopsy

TAC concentrations in tumor are higher than in blood at time of biopsy