



Forward Looking Statements

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Such risks and uncertainties include, among others: uncertainties inherent in clinical studies and in the availability and timing of data from ongoing clinical studies; whether interim results from a clinical trial will be predictive of the final results of a trial; the possibility that positive results from preclinical studies and correlative studies may not necessarily be predictive of the results of our planned clinical trials, including the Phase 2 clinical trial of gavo-cel and Phase 1/2 clinical trial of TC-510; the risk that the results from

the Phase 2 clinical trial of gavo-cel and Phase 1/2 clinical trial of TC-510 will not support further development and marketing approval; the risk that we may be unable to gain approval of gavo-cel, TC-510 and our other product candidates on a timely basis, if at all; the risk that we have over-estimated the potential patient population for our product candidates, if approved; the risk that the current COVID-19 pandemic will impact our clinical trials and other operations; and the other risks set forth under the caption "Risk Factors" in our most recent Annual Report on Form 10-K for the year ended December 31, 2021, as filed with the SEC on March 22, 2022, as updated in our most recent Quarterly Report on Form 10-Q for the quarter ended June 30, 2022, as filed with the SEC on August 8, 2022, and in our future filings with the SEC available at the SEC's website at www.sec.gov. New risks and uncertainties may emerge from time to time, and it is not possible to predict all risks and uncertainties. You should not place undue reliance on any forward-looking statements, which speak only as of the date they are made.

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Agenda

Phase 1 Key Takeaways | Garry Menzel, PhD

- Gavo-cel Phase 1 Data | Alfonso Quintás-Cardama, MD
- KOL: Gavo-cel Experience in the Clinic | Raffit Hassan, MD
- KOL: Standard of Care in Mesothelioma | Patrick Forde, MD
- Gavo-cel Phase 2 Trial Design | Garry Menzel, PhD

Q&A



Phase 1 Key Takeaways

Efficacy Data

- 93% Heavily pretreated patients that experienced tumor regression
- 77% Disease Control Rate (DCR)

- New RECIST Responses in ovarian cancer (29% ORR), MPM (21% ORR)
- MPM: 5.6 PFS, 11.2 OS

Safety Data

- RP2D: manageable safety profile and reversible adverse events
- Most frequent Grade ≥ 3 AE: CRS in 15% of patients

Path Forward

- Ovarian Cancer: earlier focus due to encouraging early activity
- MPM: potential frontline setting if CPI combo improves durability of benefit
- NSCLC: expansion opportunity with new MSLN threshold

Baseline Established

Additional strategies in the Phase 2 clinical trial are designed to improve preliminary profile

Combination with checkpoint inhibitors

✓ Redosing

✓ Earlier lines of therapy



DCR, Disease Control Rate; ORR, Overall Response Rate; PFS, Progression Free Survival; OS, Overall Survival; RP2D, Recommended Phase 2 Dose; AE, Adverse Event; CRS, Cytokine Release Syndrome; MPM, Malignant Pleural/Peritonea Mesothelioma; CPI, Checkpoint Inhibitor; NSCLC, Non-Small Cell Lung Cancer; MSLN, Mesothelin

TRuCs Represent Advancement Upon Existing T Cell Therapies





Preclinically, TRuCs Show Superiority Over CARs

Superior Tumor Control vs. CAR-Ts



Optimal Metabolic Profile for Enhanced Fitness



Superior Intratumoral Infiltration



Higher Gene Expression Associated with T Cell Activation and Migration





Clinically, gavo-cel Has Shown Activity Where Others Have Failed

First Anti-Mesothelin Cell Therapy to Demonstrate Tolerability and Clinical Benefit





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Patients evaluable treated with gavo-cel (TRuC-T cell) monotherapy

Total RECIST Responses reported



gavo-cel Achieved Consistent Tumor Regression in 93% of Evaluable Patients



MPM, Malignant Pleural/Peritoneal Mesothelioma; CHO, Cholangiocarcinoma

Promising Signal in Platinum Refractory Ovarian Cancer

Ovarian Highlights

- 6/7 patients experienced tumor regression
- 2/7 patients experienced RECIST partial responses
- Most recent RECIST response (Patient 33) is ongoing at month 4; experiencing continuous monthly improvement of radiological response

Efficacy Data

- ORR: 29% (gavo-cel + LD)
- PFS: 5.8 months
- OS: 8.1 months



Patient 33 – Platinum Refractory Ovarian Cancer

Partial Response (RECIST v1.1), Tumor Regression Deepened Over 3 Months (49%)

66-year-old female,

High grade, Stage IV serous ovarian cancer

- TP53 mutated
- Total abdominal hysterectomy, bilateral salpingooophorectomy, omentectomy
- Carboplatin/paclitaxel
- Bevacizumab/Paclitaxel
- Bevacizumab maintenance
- Weekly Paclitaxel

Enrolled in gavo-cel Clinical Trial

- Lymphodepletion with Flu/Cy
- gavo-cel at 1x10⁸/m² (RP2D)



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Phase 1 Data Support a Path Forward as Mesothelioma Leader

MPM Highlights

- 21/22 patients experienced tumor regression
- 5/22 patient partial responses by target lesion assessment; 4/22 experienced RECIST partial responses
- 1 patient experienced complete metabolic response

Efficacy Data

- ORR: 21% (gavo-cel + LD)
- PFS: 5.6 months
- OS: 11.2 months





Significant Potential Opportunity in Mesothelin-Expressing Solid Tumors

~215,000 Patients Across Multiple Target Indications



Phase 2 Modifications Aim to Further Improve Outcomes and Patient Access





Phase 1 Data



gavo-cel Phase 1 Trial in MSLN+ Solid Tumors

Phase 1 Objective: Determine RP2D



(- LD) Cohorts = 1 patient (+ LD) Cohorts = 3 patients

Phase 1: Dose Finding

Indications

- o MPM
- Ovarian cancer
- NSCLC
- o Cholangiocarcinoma

Mesothelin Expression

- IHC assay
- Central lab (Roche/Ventana)
- Cut-off: ≥50% 2+/3+

Lymphodepletion (LD)

- Fludarabine: 30 mg/m² x4d
- Cyclophosphamide: 600 mg/m² x3d



Patient Tumor Characteristics

				RP2D				
Dose Level (gavo-cel dose) No. Patients	DL 0 (no LD) 5x10 ⁷ /m² n=1	DL 1 5x10 ⁷ /m² n=8	DL 2 (no LD) 1x10 ⁸ /m² n=1	DL 3 1x10 ⁸ /m² n=13	DL 3.5 3x10 ⁸ /m ² n=5	DL 4 (no LD) 5x10 ⁸ /m² n=1	DL 5 5x10 ⁸ /m² n=3	Overall n=32 (%)
Age, Median (Range)	61	70 (36-84)	46	59 (28-70)	63 (43-69)	67	52 (37-66)	63 (28-84)
Diagnosis	1 MPM	7 MPM 1 Ovarian	1 MPM	6 MPM, 6 Ovarian 1 Cholangio	4 MPM, 1 Ovarian	1 MPM	3 MPM	23 MPM 8 Ovarian 1 Cholangio
MSLN 2+/3+	90	72 (55-100)	90	70 (50-95)	75 (50-92)	60	65 (65-73)	70 (50-100)
Median No. Prior Rx	8	5	9	5	7	7	4	5 (1-13)
Prior ICI, n (%)	1 (100)	6 (75)	1 (100)	6 (46)	4 (80)	1 (100)	2 (66)	21 (66)
Prior Anti-MSLN Therapy, n (%)	1 (100)	1 (13)	1 (100)	1 (8)	2 (40)	0	1 (33)	6 (19)
Bridging Therapy, n (%)	0	6 (75)	0	12 (92)	5 (100)	1 (100)	1 (33)	25 (78)

Data Cutoff – September 9, 2022



Grade ≥3 Treatment Emergent Adverse Events

				RP2D				
Adverse Event	DL 0 (no LD) 5x10 ⁷ /m² n=1 (%)	DL 1 5x10 ⁷ /m² n=8 (%)	DL 2 (no LD) 1x10 ⁸ /m ² n=1 (%)	DL 3 1x10 ⁸ /m² n=13 (%)	DL 3.5 3x10 ⁸ /m² n=5	DL 4 (no LD) 5x10 ⁸ /m² n=1 (%)	DL 5 5x10 ⁸ /m² n=3 (%)	Overall n=32 (%)
Hematologic								
Lymphopenia	0	8 (100)	0	13 (100)	5 (100)	0	3 (100)	29 (91)
Neutropenia	1 (100)	8 (100)	0	13 (100)	5 (100)	1 (100)	3 (100)	31 (97)
Thrombocytopenia	0	2 (25)	0	2 (15)	1 (20)	0	2 (67)	7 (22)
On Target / On Tumor								
CRS	0	2 (25)	0	2 (15)	1 (20)	0	3 (100)	8 (25)
HLH/ MAS	0	0	0	0	0	0	0	0
Neurotoxicity	0	0	0	0	0	0	0	0
On Target / Off Tumor								
Pericarditis / Pericardial effusion	0	0	0	0	1 (20)	0	0	1 (3)
Pleuritis / Pleural effusion	0	0	0	1 (8)	1 (20)	0	0	2 (6)
Peritonitis / Ascites	0	0	0	1 (8)	0	0	0	1 (3)
Other								
Pneumonitis	0	1 (13)*	*0	0	3 (60)	0	1 (33)	5 (16)
Sepsis	0	1 (13)	0	0	0	0	0	1 (3)
Hemorrhage	0	0	0	0	0	0	1 (33)*	1 (3)

*Dose Limiting Toxicity

Data Cutoff – September 9, 2022



Consistent Tumor Regression in Patients with gavo-cel

Tumor Regression in 93% of Patients, Disease Control Rate 77%



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Patient Response and Follow-up as of September 9th, 2022



CHO, Cholangiocarcinoma; SD, Stable Disease; PR, Partial Response; CR, Complete Response; PD, Progressive Disease; FU, Follow-Up

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Survival in Mesothelioma

ORR 21%, PFS 5.6 Months, OS 11.2 Months





Study	n	ORR (%)	PFS (mo)	OS (mo)
Vinorelbine	98	3.1	4.2	9.3
vs Supportive Care ¹	56	1.8	2.8	9.1
Pembrolizumab	73	22	2.5	10.7
vs Vinorelbine or Gemcitabine ²	71	6	3.4	12.4
Nivolumab	221	11	3	10.2
vs Placebo ³	111	1	1.8	6.9

Benchmarks in Second Line Post Platinum-Based Therapy

- 1. Fennell et al Phase 2 VIM Study. ASCO 2021
- 2. Popat et al Phase 3 PROMISE-meso Study. Ann Oncol 2020
- 3. Fennell et al Phase 3 CONFIRM Study. Lancet Oncol 2021



Survival in Ovarian Cancer after gavo-cel Infusion

ORR 29%, PFS 5.8 Months, OS 8.1 Months





Patient 5 – Platinum Refractory Ovarian Cancer

Partial Response (RECIST v1.1), Tumor Regression (61%)

70-year-old female

High grade, Stage IV serous ovarian cancer

- *TP53*^{R248Q}, *CCNE1* amplified, wild type *BRCA1/2*
- Failed 6 prior lines of chemotherapy

Enrolled in gavo-cel Clinical Trial

- Lymphodepletion with Flu/Cy
- gavo-cel at 5x10⁷/m² (Dose Level 1)





gavo-cel Displayed Dose-Dependent Expansion and Cytokine Release



Intratumor Infiltration and Persistence Greater Than in Blood

TRuC-T Cell Migration and Infiltration Evident from Serous Effusions



Analysis performed in a subset of patients (n=6); all analyzable samples showed detectable levels of gavo-cel, but not all showed increased expansion at disease sites



Data Cutoff – September 9, 2022

* PR by Investigator Assessment



gavo-cel: SMRP and MPF Data vs. Best Target Lesion Response



Patients with baseline levels of SMRP in normal range were excluded



Data Cutoff – September 9, 2022





Phase I Study of Gavo-cel to Treat Mesothelioma and other Mesothelin Expressing Solid Tumors

Raffit Hassan, M.D.

Malignant mesothelioma is an aggressive cancer with poor prognosis





- 3,000 new cases in US each year
- Many patients not candidates for surgery
- FDA approved therapies:

Pemetrexed plus cisplatin, 2004

Nivolumab plus Ipilimumab, 2020

Median overall survival about 18 months

Kindler H,...Hassan R, *J Clin Oncol.*, 2018 Vogelzang NJ et. al., *J Clin Oncol.*, 2003 Baas P et. al., *Lancet*, 2021 Mesothelin Targeted Immunotherapy for Malignant Mesothelioma and other Solid Tumors

Mesothelin

- Cell surface glycoprotein
- Expression in normal human tissues limited to mesothelial cells lining pleura, peritoneum and pericardium
- Mesothelin binds MUC16 and may play a role in tumor metastases



Chang K, Pastan I., PNAS 1996 Hassan R., Bera T., Pastan I. Clin. Cancer Res. 2004

Mesothelin is highly expressed in most solid tumors

- Mesothelioma (epithelial) ~ 100%
 Pancreatic Cancer ~ 80%
 Ovarian Cancer 67-71%
 Lung adenocarcinoma 41-53%
- Gastric cancer, colorectal cancers, TNBC, biliary cancers, thymic



Mesothelioma

Ovarian Cancer

Pancreatic Cancer

Lung Cancer

Hassan et al. Clin. Cancer Res., 2004 Ordonez NG. Am J Surg Pathol, 2003. Ho M et al. Clin Cancer Res, 2007

Mesothelin targeted therapies evaluated in clinical trials



Hassan R et. al. Journal of Clinical Oncology, 2016

Chimeric Receptor Antigen (CAR)-T cell therapy for cancer



CAR-T cell

- Very effective for hematologic cancers
- Limited efficacy in epithelial cancers

Anti-mesothelin CAR-T cells have limited activity in patients

CAR-T cell product	Description	Delivery route	Malignancies (N)	Partial/Complete Response
CART-Meso (mRNA)	Murine αMSLN, SS1 scFv fused to 41BB and CD3ζ signaling domains	multiple IV infusion	MPM (3) PDAC (1)	1 out of 4 (Ref. 1 and 2)
CART-Meso (lentivirus)	Murine αMSLN, SS1 scFv fused to 41BB and CD3ζ signaling domains	single IV infusion, +/- Cytoxan	MPM (5), ovarian cancer (5) and PDAC (5)	0 out of 15 (Ref. 3)
huCART-meso (lentivirus)	Humanized M5 scFv from human phage library, fused to 41BB and CD3ζ	multiple IV infusion with LD	MPM, lung, ovarian and pancreatic cancers	0 out of 17 (Ref. 4)
M28z Anti- mesothelin CAR-T (retrovirus)	Anti-MSLN scFv, m912, fused to CD28 and CD3ζ signaling domain	Intra-pleural administration with LD	MPM (23)	0 out of 23 (Ref. 5)
MPTK-CAR-T (lentivirus)	Anti-MSLN CAR, PD1 and TCR deficient	multiple IV infusion w/out LD	Mesothelin expressing cancer (15)	0 out of 15 (Ref. 6)

LD, lymphodepletion; MPM, malignant pleural mesothelioma

¹Maus et al., 2013, Cancer Immunol. Res.; ²Beatty et al., 2014, Cancer Immunol. Res.; ³Hass et al., 2019, Mol. Therapy.; ⁴www.med.upenn.edu/cellicon2021/assets/user-content/documents/tanyi.pdf; ⁵Adusumilli et al., 2021, Cancer Discovery; ⁶Wang et al., 2021, Cell Mol. Immunol.

Phase I study of gavo-cel (TC-210)



Gavo-cel: Tumor response by blinded independent radiologic review

	All	gavo-cel + LD
ORR	20%	22%
MPM ORR	18%	21%
Ovarian ORR	29%	29%

LD, lymphodepletion; MPM, malignant mesothelioma; ORR, overall response rate

Patient 15: 67 year old female with metastatic pleural mesothelioma

June 2018:	Diagnosed with unresectable disease
August to October 2019:	Carboplatin/Pemetrexed/bevacizumab x 5 cycles with SD
December 2019 to June 2020:	Maintenance bevacizumab with disease progression
June to September 2020:	Nivolumab plus Ipilimumab x 2 cycles with disease progression
November 2020:	Treated on clinical trial of another mesothelin targeted agent but developed anti-drug antibodies
February 2021:	Disease progression and enrolled on this study
April 2021:	Infused with gavo-cel

Administration of gavo-cel led to CRS managed by tocilizumab and steroids



Rapid increase in serum LDH after gavo-cel infusion



Treatment response with single infusion of gavo-cel



Baseline

Day 28

Durable metabolic and tumor response after single infusion of gavo-cel

Metabolic tumor volume and total lesion glycolysis





Response duration: 12 months

Rapid drop in serum mesothelin after gavo-cel



Persistence of gavo-cel in peripheral blood



Phase I Gavo-cel: summary

- Phase I dose-escalation completed, RP2D defined
- Cytokine release syndrome is common but manageable
- Objective tumor responses seen in heavily pre-treated patients
- Randomized phase II study in mesothelioma with and without immune checkpoint blockade has been initiated



Systemic Therapy for Mesothelioma

Patrick Forde MB BCh Director, Thoracic Oncology Clinical Research Program Co-Director, Division of Upper Aerodigestive Malignancies Johns Hopkins University

Recent studies in unresectable mesothelioma

- 1st line Standard of Care: CheckMate 743
- 2nd line studies: RAMES, Promise-Meso, CONFIRM

CheckMate 743 Study Design





Primary Endpoint	Secondary Endpoints
• OS	 ORR, DCR, and PFS by BICR
	 PD-L1^c expression as a predictive biomarker

Overall survival CM-743





OS by Subgroup in CM-743



	Median OS, mo			
Subgroup	NIVO + IPI n = 303	Chemo n = 302	Unstratified HR	Unstratified HR (95% CI)
All randomized (N = 605)	18.1	14.1	0.75ª	_ → _¦
< 65 years (n = 167)	17.2	13.3	0.76	
≥ 65 to < 75 years (n = 281)	20.3	14.9	0.63	_ _
≥ 75 years (n = 157)	16.9	15.4	1.02	
Male (n = 467)	17.5	13.7	0.74	
Female (n = 138)	21.4	18.0	0.76	_
ECOG performance status 0 (n = 242)	20.7	19.5	0.87	_
ECOG performance status \geq 1 (n = 363)	17.0	11.6	0.66	
Epithelioid (n = 456)	18.7	16.5	0.86	
Non-epithelioid (n = 149)	18.1	8.8	0.46	_ _
PD-L1 < 1% (n = 135)	17.3	16.5	0.94	· · · · · · · · · · · · · · · · · · ·
PD-L1 ≥ 1% (n = 451)	18.0	13.3	0.69	
				0.25 0.5 1 2 4

Summary of ongoing phase 3 chemo-IO studies for 1st line unresectable mesothelioma



Anti-PD-(L)1 in pretreated MPM



Target	Drug(s) (reference)	NCT	Populati	N (pts)	ORR	DCR	PFS	OS	PD-L1 IHC status
(s)			on		(%)	(%)	(months)	(months)	
						1. 1			
PD-1	Pembrolizumab	020548	Second line	25	20	72	5.4	18	All patients were
	(KEYNOTE-028) (43)	06							PD-L1 IHC positive
PD-1	Pembrolizumab (48)	023993	Second line	35	21	77	6.2	NR (not	Did not correlate to
		71						reached)	response
DD 1	Nivelumek	024075	Devend	22	2.1	50	2.6	ND	Tuond for convolution
PD-1	Nivolumab	024975	Beyond	33	24	50	3.6	NR	Irend for correlation
	(NivoMES trial) (47)	08	first line						with OR
PD-L1	Avelumab	017720	Salvage,	53	9.4	57	4.3	NR	Trend to correlate
	(JAVELIN) (46)	04	any line						with median PFS
PD-1	Nivolumab + Ipilimumab	027162	Second/	125	25.9	50	5.6	15.9	Correlation with OR
±	vs Nivo alone (MAPS-2)	72	third line	(62 vs	VS	VS	VS	vs	(p=0.003 if ≥1%)
CTLA-4	(44-45)			62)	10 E	111	1	11.0	
	April 199			03)	10.5	44.1	4	11.9	

(unfulfilled) PROMISE-MESO



- Randomized phase 2 study, enrolled 143 patients pretreated with platinum pemetrexed, randomized 1:1 to either pembrolizumab or investigators choice of single agent chemotherapy
- ORR increased from 6% (chemo) to 22% (pembro)
- Primary endpoint: PFS no difference
- Also no OS difference between the two arms



CONFIRM – Phase 3 trial of nivo vs. placebo 🍐 presenter in mesothelioma after chemo

- 332 pts randomized to either nivo or placebo for 1 yr; 87% epithelioid; 96% 3rd line or later
- Co-primary endpoints: PFS and OS
- PFS significantly improved with nivo (3.0m vs. 1.8m, HR 0.62, p<0.001)
- OS improved (9.2m vs. 6.6m, HR 0.72, p=0.02)



RAMES Trial - Gemcitabine with or without ramucirumab as (a) JOHINS HOPKINS second-line treatment for malignant pleural mesothelioma





2nd and Subsequent Line Options in NCCN

- Either of the following as single agent vinorelbine, gemcitabine
- ORR 7-18%, median OS (mainly 2nd line pts) 4.7-11.2m

Systemic therapy for mesothelioma JOHINS HOPKINS

- Nivolumab improves PFS & OS in chemo-pretreated mesothelioma
- First line Nivo-Ipi is FDA-approved doubling of survival for nonepithelioid MPM; benefit less clear for epithelioid
- No approved agent after prior Nivo-Ipi & Platinum Pemetrexed

Phase 2 Trial

Trial Modifications & Design



Clinical Activity At or Below gavo-cel RP2D

- Manageable safety profile
- Clinical activity at ≤RP2D in 3/3 tumor indications
- 5 RECIST PRs
- Multiple patients near 30% tumor regression





Phase 2 Incorporates Four Changes Aiming to Boost Patient Outcomes

Broadening Patient Access

1 Increased Patient Eligibility with New MSLN Threshold for NSCLC and Cholangiocarcinoma

Durability and Persistence

3 Checkpoint Inhibitor Combinations

4 Limit Prior Lines of Therapy ≤ 5



Phase 2 Expansion Cohorts in MSLN+ Solid Tumors

PATIENT POPULATION: ≤5 PRIOR LINES OF THERAPY



Key Objectives

- Primary: ORR (RECIST v1.1), DCR (ORR+SD)
- Secondary: PFS, OS

Mesothelin Expression

- MPM, Ovarian: ≥50%, 2+/3+
- NSCLC, Cholangio: ≥50%, 1+/2+/3+

Retreatment

- Patient with a confirmed response (i.e. PR or CR) and then exhibits symptoms or signs of PD
- Patients with SD for at least 8 weeks



Increase in Patient Eligibility with New MSLN Threshold

New Threshold:

≥50% tumor cells irrespective of MSLN intensity (1+/2+/3+)



MSLN Threshold Comparison

Data based on internal analysis in September 2022



Redosing Allowed from 12 Weeks, Could Deepen Patient Responses

Based on gavo-cel Phase 1 manufacturing experience:

100% Patients had <u>2 doses from</u> one manufacturing run

97% Patients had <u>3 doses from</u> one manufacturing run

46% Patients eligible for a redosing based on Phase 2 protocols



CRISPR Highlights:

- Evaluated safety and efficacy of CTX110 with the option of as second consolidation dose in aggressive 2L+ LBCL; n=29
- Option for 2nd CTX110 infusion with LD following disease progression
- 5 out of 8 patients receiving a second dose saw an improved response

Source: CRISPR public materials, Trial: NCT04035434 (CARBON)



CPIs Expected to Improve Activity of TRuC-T Cells

Immunoinhibitory Mechanisms May Play A Role in Resistance



PanCK = tumor marker; CD3 = T cell marker; CD68 = TAM marker; CD155 = TIGIT ligand; PD-L1 = PD-1 ligand Multiparameter immunofluorescence assay performed using MultiOmxy[™] (Neogenomics)



MPM, Malignant Pleural/Peritoneal Mesothelioma; CPI, Checkpoint Inhibitor

Refocused Pipeline to Deliver Near-Term Clinical Data

Program	Indication(s)	Target	Enhancement / Combo	Discovery	Lead Optimization	IND Enabling	Phase 1	Phase 2	Phase 3
Oncology									
gavo-cel	Ovarian cancer (Treating)	MSLN	Checkpoint inhibitor						
gavo-cel	MPM (Treating)	MSLN	Checkpoint inhibitor						
gavo-cel	NSCLC (Enrolling)	MSLN	Checkpoint inhibitor						
gavo-cel	Cholangiocarcinoma (Next wave)	MSLN	Checkpoint inhibitor						
TC -510	Ovarian cancer, MPM,Pancreatic, Colorectal, TNBC	MSLN	PD-1 switch						
TC-520	RCC, AML	CD70	IL-15						





