Immatics Corporate Presentation

November 18, 2024



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Building a Leading TCR Therapeutics Company







Pipeline of TCR-T and TCR
Bispecific product
candidates in clinical &
preclinical development



Clinical PoC for Cell Therapy

High confirmed objective response rate and durable responses in melanoma; registration-enabling Phase 3 trial to commence in December 2024



Differentiated Platforms

Unique technologies to identify true cancer targets and right TCRs



Therapeutic Opportunity

Potential for addressing large patient populations with high prevalence targets in solid tumors

2024 ACTengine® and TCER® Clinical Milestones



ACTengine® IMA203 / IMA203CD8 (PRAME)

- Targeted randomized Phase 3 trial for ACTengine® IMA203 in 2L+ melanoma in 2024
- Clinical data update from Phase 1b dose expansion trial at SMR Conference on Oct 11, 2024; IMA203CD8 (GEN2) update at SITC Conference on Nov 9, 2024

TCER® IMA401 (MAGEA4/8)

First clinical data update from dose escalation in ongoing Phase 1 trial at ESMO on Sep 16, 2024

TCER® IMA402 (PRAME)

First clinical data update from dose escalation in ongoing Phase 1/2 trial with initial focus on early doses and melanoma on Nov 18, 2024

Planned focus indications: melanoma, ovarian cancer, uterine cancer, lung cancer, and others

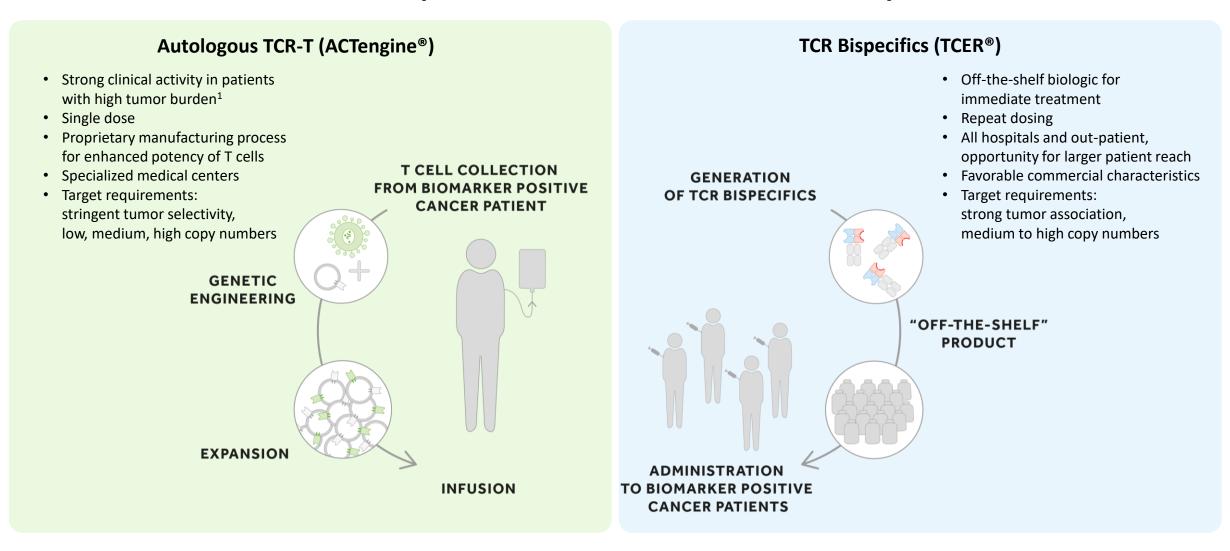






Two Distinct TCR-based Therapeutic Modalities in Clinical Development

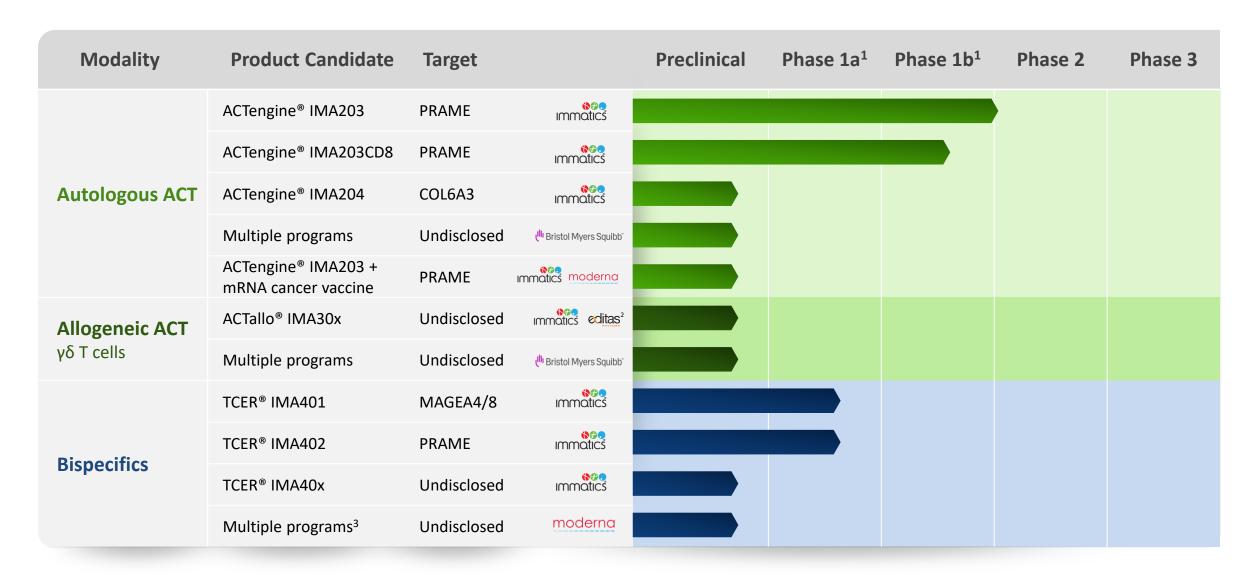




Differentiated positioning of ACTengine® vs. TCER® based on patient population and medical need

Our Pipeline of TCR-based Adoptive Cell Therapies and Bispecifics



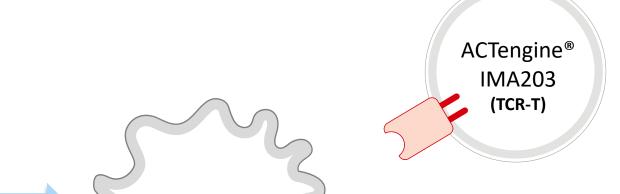


Realizing the Full Multi-Cancer Opportunity of PRAME



ACTengine® IMA203 (TCR-T) and TCER® IMA402 (TCR Bispecific)

Indication	% PRAME positive patients ¹
Uterine Carcinosarcoma	100%
Sarcoma Subtypes	up to 100%
Uterine Carcinoma	95%
Cut. Melanoma	95%
Uveal Melanoma ²	90%
Ovarian Carcinoma	85%
Squamous NSCLC	70%
TNBC	65%
Small Cell Lung Cancer	45%
Kidney Carcinoma	up to 40%
Cholangiocarcinoma	35%
Adeno NSCLC	25%
Breast Carcinoma	25%
HNSCC	25%
Esophageal Carcinoma	25%
HCC	20%
Bladder Carcinoma	20%



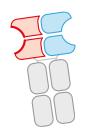
Cancer Cell

Death

Phase 1b dose expansion ongoing

Phase 3 trial in preparation



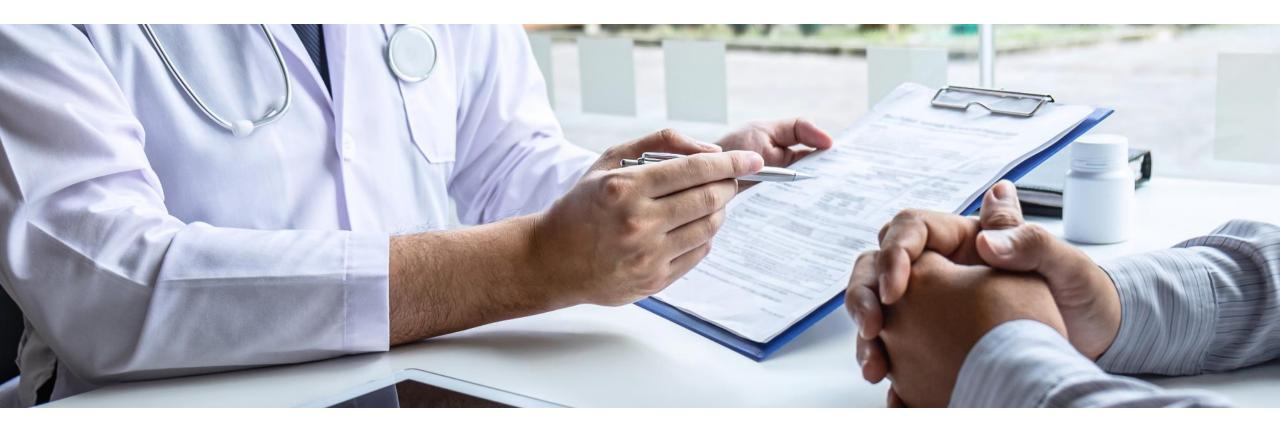


Dose escalation of Phase 1/2 trial ongoing

PRAME is one of the most promising and most prevalent, clinically validated solid tumor targets known to date

Leverage the full potential of targeting PRAME by continued evaluation of the best suited therapeutic modality (ACTengine® vs. TCER® or both) for each cancer type



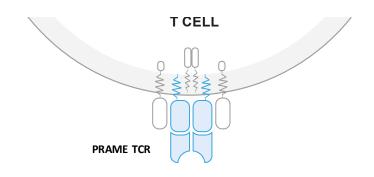


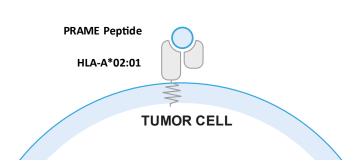
ACTengine® IMA203 – TCR-T Targeting PRAME

The Multi-Cancer Opportunity of PRAME

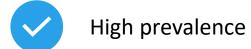


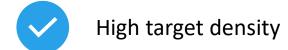
One of the Most Promising Solid Tumor Targets for TCR-based Therapies Known To Date

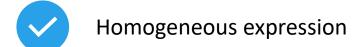




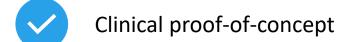
PRAME fulfills all properties of an ideal target for TCR-based therapies



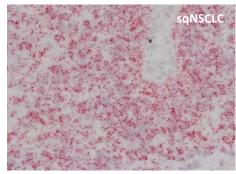


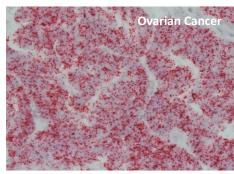


"Clean" expression profile



PRAME RNA detection in tumor samples (ISH)





IMA203 TCR-T Has the Potential to Reach a Large Patient Population



~39,000 Patients per Year in the US only

Selected Indications

Cut. Melanoma
Uveal Melanoma
Ovarian Carcinoma
Uterine Carcinosarcoma
Squamous NSCLC
Small Cell Lung Cancer
Adeno NSCLC
HNSCC
Breast Carcinoma
Synovial Sarcoma
Cholangiocarcinoma

<u>Incidence</u>	R/R Incidence	PRAME Positive	
99,800	7,700	95%	
1,500	800	89%	
19,900	12,800	84%	
62,700	10,700	97%	
3,300	1,900	100%	
57,000	34,600	68%	
31,900	19,400	45%	
91,200	55,300	25%	
66,500	15,100	27%	
290,600	43,800	26% TNBC: 63%	
1,000	400	100%	
8,000	7,000	33%	

Patient Population
Based on R/R Incidence; PRAME and HLA-A*02:01+
2,999
292
4,408
4,255
779
9,646
3,579
5,668
1,672
4,669
164
947

TOTAL ~39,000 annually in the US

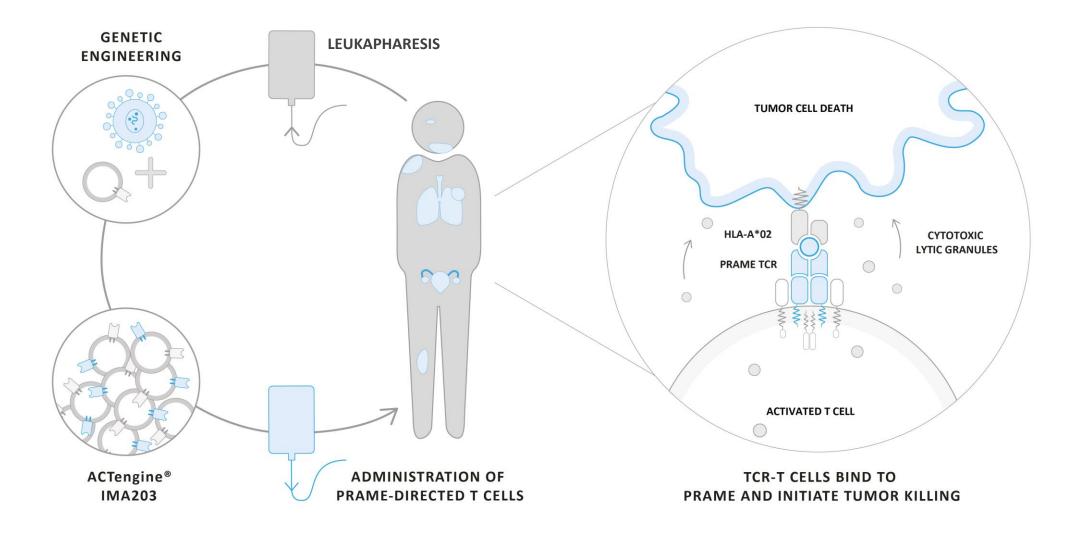
Multiple opportunities to broaden patient reach and patient benefit:

- Expand beyond US population
- Expand into other indications such as kidney, esophageal, bladder, other liver cancers, other sarcoma subtypes through indication-specific or indication-agonistic label expansion
- \rightarrow Move into earlier lines of therapy (R/R Incidence \rightarrow Incidence)
- Inclusion of patients with lower PRAME-threshold

ACTengine® IMA203 Targeting PRAME – Mechanism of Action



Immatics' Leading TCR-T Approach



ACTengine® IMA203 TCR-T Product Manufacturing



Differentiated Manufacturing Process and Setup

Proprietary Manufacturing Process

State-of-the-art Research & GMP Manufacturing Facility

1-week manufacturing process followed **SHORT** by 1-week QC release testing High manufacturing success rate **ROBUST** of >95% to reach IMA203 target dose* Lean and cost-**SIMPLE** efficient process

Manufacturing of ACTengine® candidates & other future autologous /allogeneic candidates

Early-stage and registration-directed clinical trials as well as initial commercial supply

~100,000 sq ft in Houston area, TX – modular design for efficient and cost-effective scalability

Construction completed in 2024

ACTengine® IMA203 TCR-T Monotherapy – Patient Flow

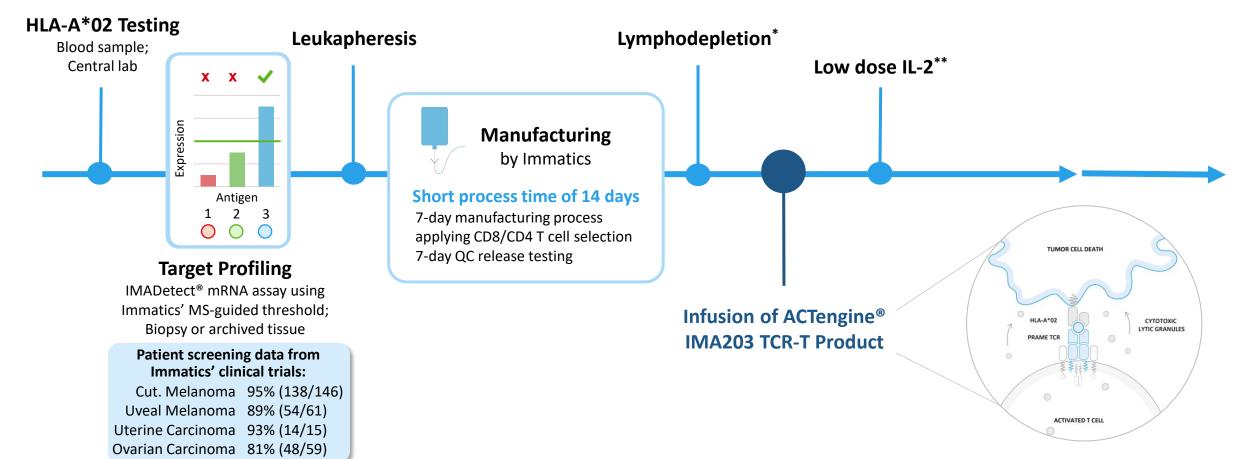


Screening & Manufacturing Phase

Treatment & Observation Phase

Long Term Follow-up

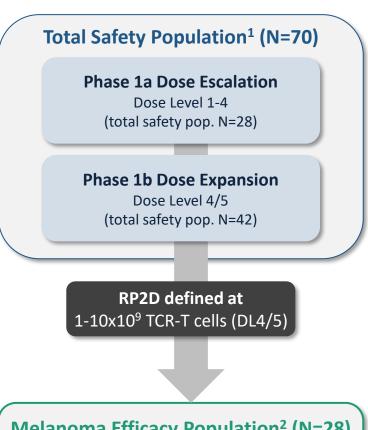
Safety and efficacy monitoring for 12 months



ACTengine® IMA203 TCR-T Trial in Melanoma



Heavily Pretreated Patient Population



Melanoma Efficacy Population² (N=28)

Melanoma Patients in Phase 1b Dose Expansion

	Total Safety Population ¹	Melanoma Dose Escalation Population	Melanoma Efficacy Population ²	
	All Comers (Phase 1a and Phase 1b)	Melanoma (Phase 1a)	Melanoma (Phase 1b, at RP2D)	
Number of patients	Total N=70 Melanoma N=41 Other N=29	Total N=11 Cutaneous melanoma N=8 Uveal melanoma N=2 Mucosal melanoma N=1	Total N=28 Cutaneous melanoma N=13 Uveal melanoma N=12 Melanoma of N=1 unknown primary Mucosal melanoma N=2	
Prior lines of systemic treatment (median, min, max)	3 (0, 9)	4 (2, 7)	2 (0, 6)	
Thereof CPI (melanoma only) (median, min, max)	2 (0, 4)	2 (1, 4)	1* (0, 4)	
LDH at baseline >1 x ULN [% of patients]	64.3	81.8	60.7	
Baseline tumor burden Median Target lesion sum of diameter [mm] (min, max)	117.8 (15.0, 309.8)	117.5 (37.0, 211.0)	107.5 (15.0, 309.8)	
Liver/brain lesions at baseline [% of patients]	65.7	63.6	82.1	
Dose level	DL1-5	EC1/DL3/4	DL4/5	
Total infused dose TCR-T cells [x10 ⁹]	2.09 (0.08, 10.2)	0.586 (0.10, 2.09)	4.1 (1.3, 10.2)	

Most Frequent Adverse Events of IMA203 Across All Dose Levels in Phase 1a/b



N=70 Patients in Total Safety Population¹

- Most frequent adverse events were expected cytopenias (Grade 1-4) associated with lymphodepletion in all patients
- Mostly mild to moderate cytokine release syndrome (CRS)
 - 37% (26/70) Grade 1
 - 46% (32/70) Grade 2
 - 11% (8/70) Grade 3²
- Infrequent ICANS (6% Grade 1, 4% Grade 2, 4% Grade 3)
- No IMA203-related deaths
- Full IMA203 monotherapy tolerability profile is available in appendix
- Tolerability in the melanoma subset is generally consistent with the full IMA203 monotherapy tolerability profile

Favorable tolerability profile for IMA203 monotherapy at recommended phase 2 dose $(1x10^9 \text{ to } 10x10^9 \text{ TCR-T cells})$

Tolerability Profile of IMA203 Across All Dose Levels in Phase 1a/b



All ≥Grade 3 Adverse Events (N=70¹)

TEAEs by maximum severity for all patients in Phase 1a and Phase 1b (N=701)

Adverse event	≥ Gra	≥ Grade 3		
(System organ class, Preferred term)	No.	%		
Patients with any adverse event	70	100.0		
Adverse Events of Special Interest	9	12.9		
Cytokine release syndrome	8	11.4		
ICANS ²	3	4.3		
Blood and lymphatic system disorders	70	100.0		
Neutropenia	62	88.6		
Lymphopenia	39	55.7		
Leukopenia	38	54.3		
Anaemia	36	51.4		
Thrombocytopenia	24	34.3		
Febrile neutropenia	2	2.9		
Cytopenia	1	1.4		
Leukocytosis	1	1.4		
Infections and infestations	10	14.3		
Urinary tract infection	2	2.9		
Appendicitis	1	1.4		
COVID-19	1	1.4		
Cytomegalovirus infection reactivation	1	1.4		
Enterococcal infection	1	1.4		
Human herpesvirus 6 encephalitis	1	1.4		
Infection	1	1.4		
Orchitis	1	1.4		
Sepsis ^{3,4}	1	1.4		
Septic shock ³	1	1.4		
Investigations	10	14.3		
Alanine aminotransferase increased	6	8.6		
Aspartate aminotransferase increased	5	7.1		
Blood creatinine increased	2	2.9		
Blood alkaline phosphatase increased	1	1.4		
Blood bilirubin increased	1	1.4		
Blood fibrinogen decreased	1	1.4		
Lymphocyte count increased	1	1.4		
Respiratory, thoracic and mediastinal disorders	10	14.3		
Hypoxia	4	5.7		
Pleural effusion	2	2.9		
Bronchial obstruction	1	1.4		
Dyspnoea	1	1.4		
Epistaxis	1	1.4		
Laryngeal inflammation	1	1.4		
Respiratory failure	1	1.4		

Adverse event	≥ Grade 3		
(System organ class, Preferred term)	No.	%	
table continued			
Metabolism and nutrition disorders	7	10.0	
Hypokalaemia	3	4.3	
Hyponatraemia	3	4.3	
Hypophosphataemia	2	2.9	
Dehydration	1	1.4	
Failure to thrive	1	1.4	
Vascular disorders	7	10.0	
Hypertension	6	8.6	
Hypotension	1	1.4	
Renal and urinary disorders	6	8.6	
Acute kidney injury	4	5.7	
Nephritis	1	1.4	
Proteinuria	1	1.4	
Gastrointestinal disorders	5	7.1	
Abdominal pain	3	4.3	
Diarrhoea	1	1.4	
Ileus Vomiting	1 1	1.4 1.4	
General disorders and administration site conditions	4	5.7	
Fatigue	1	1.4	
General physical health deterioration ³	1	1.4	
Pyrexia	1	1.4	
Swelling face	1	1.4	
Skin and subcutaneous tissue disorders	4	5.7	
Rash maculo-papular	3	4.3	
Eczema Cardiac disorders	1 3	1.4 4.3	
Atrial fibrillation ⁵	3	4.3	
	3 2	4.3 2.9	
Eye disorders Periorbital oedema	1	1.4	
	_		
Ulcerative keratitis	1	1.4	
Injury, poisoning and procedural complications	2	2.9	
Humerus fracture	1	1.4	
Infusion related reaction	1	1.4	
Musculoskeletal and connective tissue disorders	2	2.9	
Back pain	1	1.4	
Muscle spasms	1	1.4	

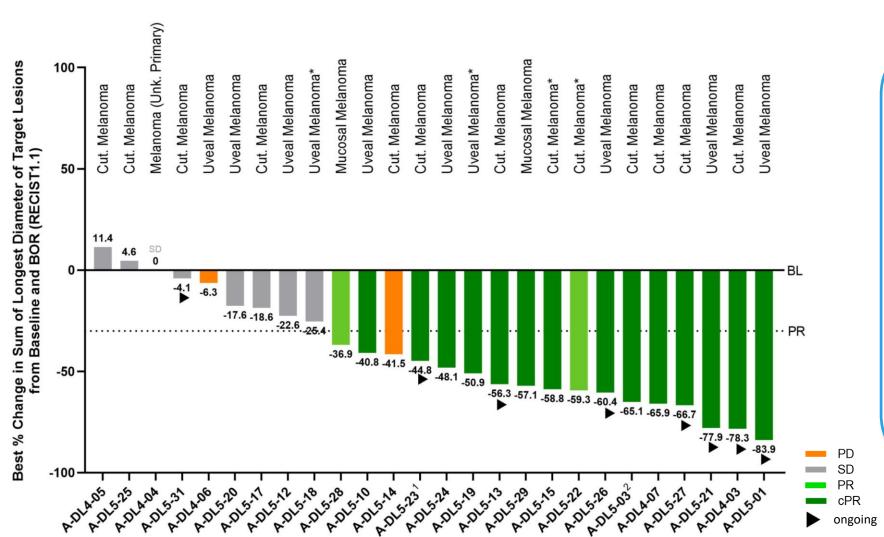
Adverse event	≥ Grade 3		
(System organ class, Preferred term)	No.	%	
table continued			
Nervous system disorders	2	2.9	
Headache	1	1.4	
Posterior reversible encephalopathy syndrome	1	1.4	
Endocrine disorders	1	1.4	
Inappropriate antidiuretic hormone secretion	1	1.4	
Hepatobiliary disorders	1	1.4	
Cholangitis	1	1.4	
Immune system disorders	1	1.4	
Haemophagocytic lymphohistiocytosis	1	1.4	
Reproductive system and breast disorders	1	1.4	
Vaginal haemorrhage	1	1.4	

All treatment-emergent adverse events (TEAEs) with ≥ Grade 3 regardless of relatedness to study treatment. Adverse events were coded using the Medical Dictionary for Regulatory Activities. Grades were determined according to National Cancer Institute Common Terminology Criteria of Adverse Events, version 5.0. Grades for Cytokine release syndrome and ICANS were determined according to CARTOX criteria (Neelapu et al., 2019). Patients are counted only once per adverse event and severity classification. Based on interim data extracted from open clinical database (23-Aug-2024); ¹ Two patients with disease progression after first IMA203 infusion received exploratory second IMA203 infusion. They had these ≥ Grade 3 TEAEs only after second infusion, which are included in the table: First patient: Abdominal pain, Cytokine release syndrome, Diarrhoea, Hypokalaemia, Proteinuria; Second patient: Humerus fracture, Muscle spasms, Neutropenia, Thrombocytopenia; ² ICANS: Immune effector cell-associated neurotoxicity syndrome; ³ Fatal Adverse events were not considered related to any study drug; 4 Patient died from sepsis of unknown origin and did not receive IMA203 TCR-T cells; 5 DLT: Dose limiting toxicity in phase 1a at DL2 reported on March 17, 2021.

Best Overall Response for IMA203 in Melanoma



Objective Responses in Heavily Pretreated Patients in Phase 1b (N=28*)



cORR 54% (14/26)

median DOR 12.1 months

> (4.2, 25.5+ months) (min, max)

mFU 9.3 months

7/14 confirmed responses ongoing

median PFS 6.0 months

> (0.3+, 26.8+ months) (min, max)

median OS Not reached

(0.3+, 26.8+ months) (min, max)

> mFU 8.6 months

62% (16/26)

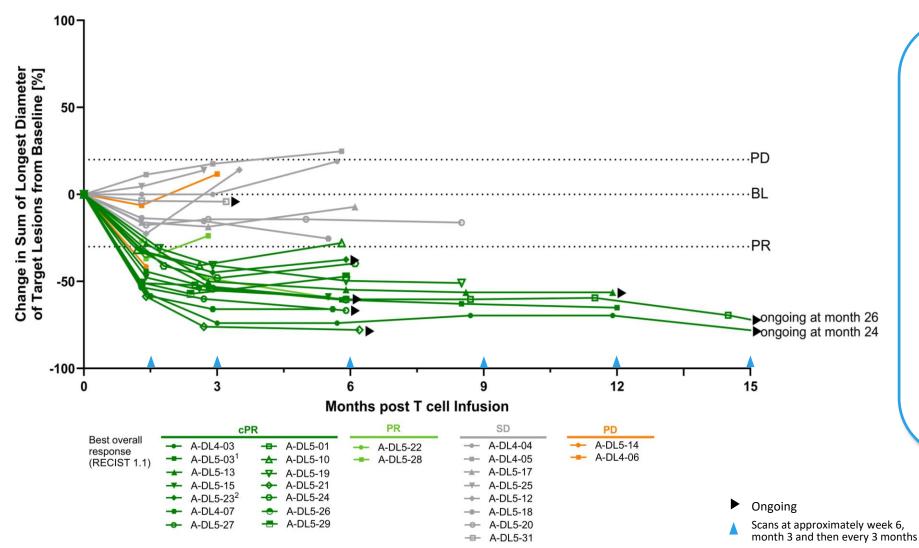
Tumor shrinkage** 88% (23/26)

DCR (at week 6) 92% (24/26)

Response Over Time of IMA203 in Melanoma



Durable Responses 2 Years+ after Treatment in Heavily Pretreated Patients in Phase 1b (N=28*)



cORR 54% (14/26)

median DOR 12.1 months

> (4.2, 25.5+ months) (min, max)

mFU 9.3 months

7/14 confirmed responses ongoing

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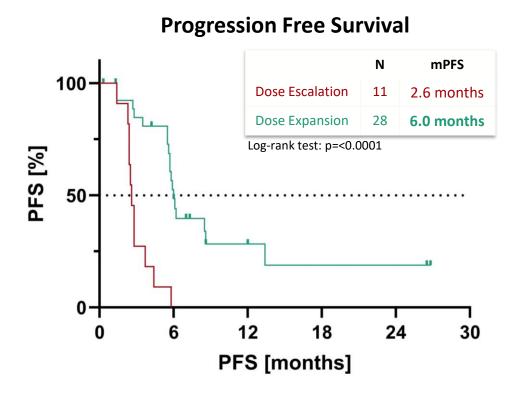
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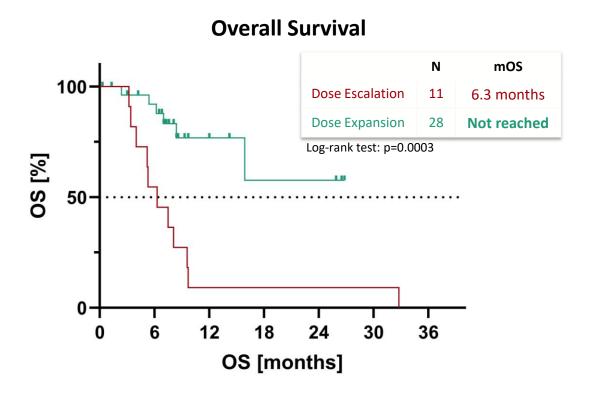
DCR (at week 6) 92% (24/26)





PFS of 6 Months and OS Not Reached in Melanoma Efficacy Population





- Significant shift in PFS and OS between melanoma patients treated during the dose escalation and dose expansion phase
- PFS in dose escalation is comparable to reported data in 2L+ cut. melanoma population*
- OS in dose escalation is shorter than reported OS for 2L+ cut. melanoma population*
- All patients in the dose escalation group died and 20/28 patients are alive in dose expansion

IMA203 Phase 1b in Melanoma: Overview of Studies



PFS and OS Data in 2L+ Melanoma Cohorts

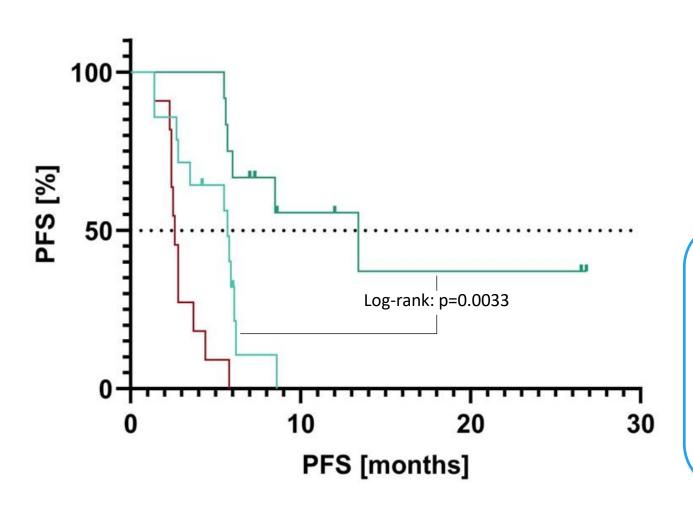
Drug Product	Phase	N	2L+ melanoma patient population	Prior lines of therapies	mPFS (months)	mOS (months)
IMA203 in Melanoma	1b (Dose Expansion)	28	46% cutaneous 43% uveal 11% other	4% n=0, 18% n=1, 32% n=2, 29% n=3:, 4% n=4, 11% n=5, 4% n=6 86% received prior CPI (median of 1 prior line of CPI in overall population, median of 2 prior lines of CPI in cut. melanoma) Median of 2 prior lines, median of 2 prior lines in cut. melanoma	6.0	not reached
IMA203 in Melanoma	1a (Dose Escalation)	11	73% cutaneous 18% uveal 9% other	0% n=1, 27% n=2, 73% n>2 prior lines 100% received prior CPI (median of 2 prior lines of CPI, median of 2.5 prior lines of CPI in cut. melanoma) Median of 4 prior lines, median of 4.5 prior lines in cut. melanoma	2.6	6.3
IMA201/202/203 combined in Melanoma	1a (Dose Escalation)	19	63% cutaneous 11% uveal 26% other	0% n=1, 16% n=2, 84% n>2 prior lines 100% received prior CPI (median 3 prior lines of CPI) Median of 4 prior lines, median of 4.5 prior lines in cut. melanoma	2.5	5.3
Lifileucel (C-144-01, Cohort 2+4) ¹	2	153	54% cutaneous 0% uveal 45% other	median of 3 prior lines (min/max: 1/9) 100% received prior CPI	4.1	13.9
Tilsotolimod + Ipilimumab (ILLUMINATE-301) ²	3	238	85% cutaneous 0% uveal 15% other	57% n=1, 27% n=2, 12% n>2 prior lines 99% received prior CPI	2.9	11.6
Nivolumab + Relatlimab (RELATIVITY-020, D1 Cohort) ³	1/2	354	68% cutaneous 0% uveal 32% other	46% n=1, 35% n=2, 19% n≥3 prior lines 99% received prior CPI	2.1	14.7

These data are derived from different clinical trials at different points in time with differences in trial design and patient populations. As a result, crosstrial comparisons cannot be made, and no head-to-head clinical trials have been conducted.





 $N=26^{#}$



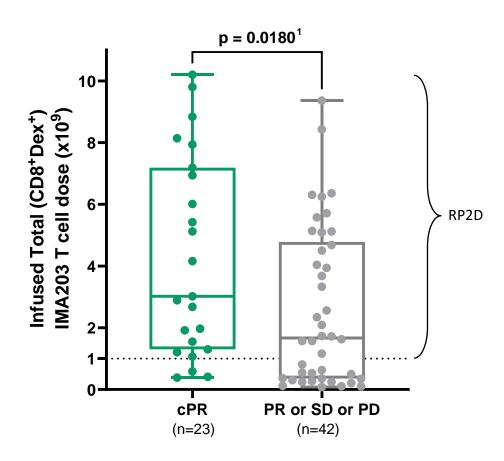
	N	mPFS
Dose Escalation IMA203	11	2.6 months
Dose Expansion IMA203 <50% tumor size reduction (including tumor size increase)	14*	5.7 months
Dose Expansion IMA203 >50% tumor size reduction	12	13.4 months

- Approx. half of all patients have a deep response (>50% tumor reduction)
- This subgroup of patients has highly medically meaningful mPFS of more than 1 year
- Patients with <50% tumor reduction (including tumor size increase) still observe a more than 2x longer mPFS as compared to patients treated in dose escalation with suboptimal doses

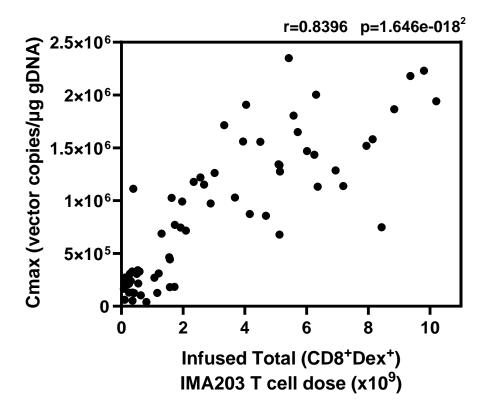
Dose Response Relationship



IMA203 T Cell Dose is Associated with Clinical Activity and IMA203 T Cell Exposure (N=65 out of 68*)



IMA203 T Cell Dose is Associated with Clinical Activity

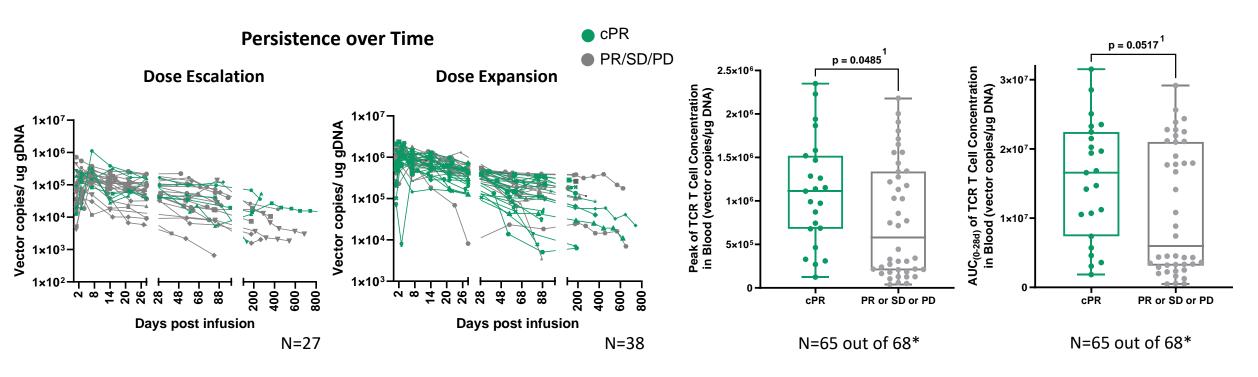


IMA203 T Cell Dose Correlates with T Cell Exposure





IMA203 T Cell Persistence Over Time and T Cell Exposure is Associated with Clinical Response



Rapid T cell engraftment (C_{max}) in all patients with over two years of persistence

Higher C_{max} and persistence in patients treated at higher doses in dose expansion versus dose escalation

IMA203 T cell exposure (C_{max} & AUC (0-28d)) is associated with clinical responses

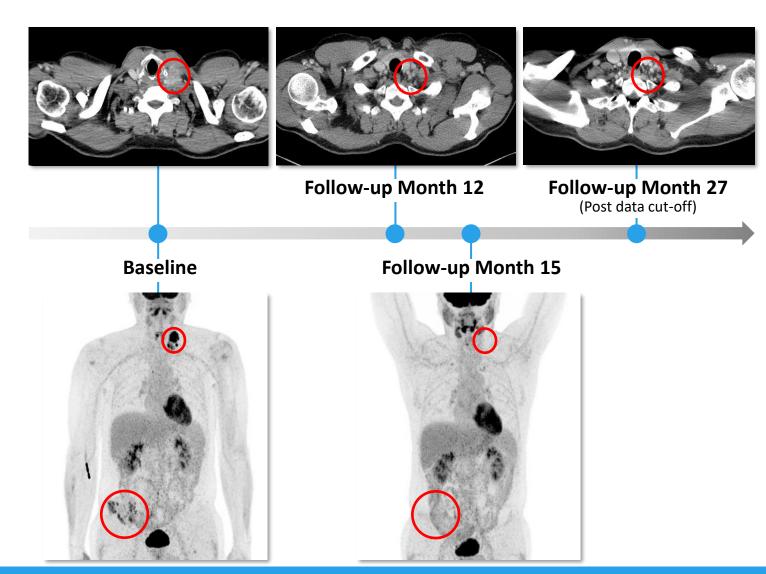
Patient Case A-DL4-03: Cutaneous Melanoma



PET-based Complete Response 15 Months Post Infusion and Ongoing Response at 24 Months

51-year-old male patient with complete remission according to PET imaging after 15 months and ongoing beyond two years post infusion at data cut

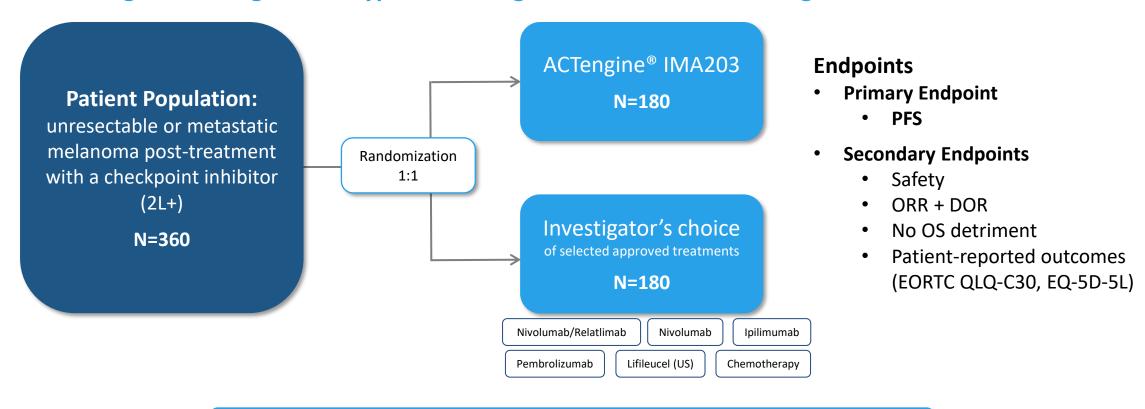
- 5 prior systemic treatment lines:
 - Dabrafenib + Trametinib
 - Pembrolizumab
 - Dabrafenib + Trametinib + Vemurafenib + Cobimetinib
 - Tebentafusp
 - Encorafenib + Binimetinib
- 13 years of cancer history
- 23 mm target lesion in cervical lymph node and non-target lesions in pelvic bone and lung
- Patient received ~1.3x109 IMA203 TCR-T cells
- Ongoing PR at 24 months post infusion with -78.3% reduction according to RECIST1.1
- Metabolic complete response reported based on investigator-initiated PET imaging at baseline and month 15 post infusion



SUPRAME: Registration-enabling Randomized Phase 3 Trial



Trial Design Following Recent Type D Meeting with FDA and SA Meeting with PEI¹



SUPRAME Phase 3 trial is projected to commence in December 2024

Next Steps

- Pre-specified interim analysis planned after approx. 200 patients enrolled
- Full enrollment anticipated by late 2026

Combining Immatics' TCR-T Therapy with Moderna's mRNA Cancer Vaccine – Patient Flow



IMA203 Targeting PRAME Together with PRAME mRNA-based Cancer Vaccine

Follow-up **Treatment & Observation Phase (1 year) Screening & Manufacturing Phase** (2 years) Safety and efficacy monitoring for 12 months **HLA-A*02** testing mRNA/LNP Lymphodepletion* Leukapheresis Blood sample; Up to 13 administrations given Central lab q2-4 weeks over 52 weeks Manufacturing by Immatics Short process time of 14 days 7-day manufacturing process applying CD8/CD4 T cell selection 7-day QC release testing **Tumor tissue** collection Infusion of ACTengine® CYTOTOXIC **IMA203 TCR-T Product** PRAME TCR ACTIVATED T CELL

ACTengine® IMA203 TCR-T Monotherapy Targeting PRAME in Melanoma

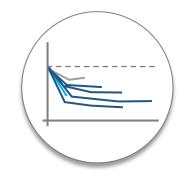


Summary of Clinical Data



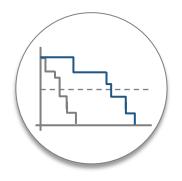
Tolerability

Favorable tolerability profile: mostly mild to moderate CRS; infrequent ICANS (5.7% Gr1, 4.3% Gr2, 4.3% Gr3); no treatment related deaths



Anti-Tumor Activity & Durability

54% (14/26) cORR and 92% (24/26) DCR; 12.1 months mDOR and ongoing responses for over two years



PFS & OS

PFS of 6 months and OS not reached (mFU 8.6 months)



Biological Data

T cell dose and exposure are significantly associated with clinical response



Broad Reach

FDA RMAT designation received in multiple PRAME expressing cancers including cutaneous and uveal melanoma

SUPRAME Phase 3 trial in cutaneous melanoma patients is projected to commence in **December 2024**





Clinically and Commercially Attractive Features of IMA203

≥95% of cutaneous melanoma patients are PRAME-positive

Favorable tolerability profile mostly mild to moderate CRS,

infrequent ICANS (6% Gr1, 4% Gr2, 4% Gr3), no treatment related deaths

Promising anti-tumor activity (cORR, mDOR, PFS)

Leukapharesis as source for cell product, no surgery required

Short manufacturing time of 7 days plus 7 days of QC release testing

Low dose IL-2 post IMA203 infusion with better tolerability profile than high dose IL-2

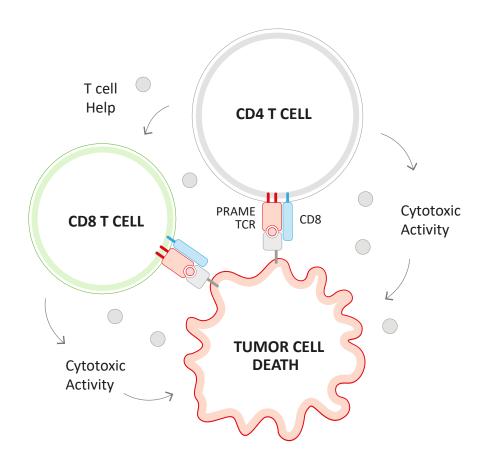
High Unmet Medical Need in Cutaneous and Uveal Melanoma

	Cutaneous Melanoma	Uveal Melanoma	
Patient Population	2L+ CPI-refractory, BRAF/MEK inhibitor- refractory if BRAF mutation+	Kimmtrak-refractory, CPI/chemotherapy-refractory	
IMA203 Opportunity	~3,000 HLA-A*02:01 and PRAME- positive cutaneous melanoma patients annually in the US ¹	~300 HLA-A*02:01 and PRAME- positive uveal melanoma patients annually in the US ²	

IMA203CD8 GEN2 – IMA203 TCR-T Monotherapy Leveraging CD8 and CD4 cells IMMQtICS



Differentiated Pharmacology Compared to 1st-Generation TCR-only Approaches

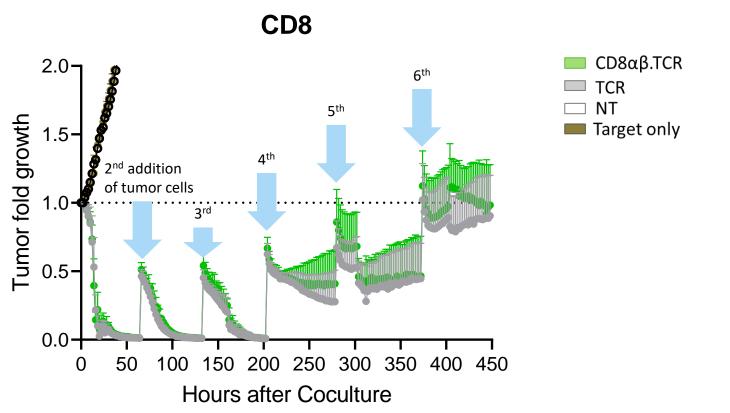


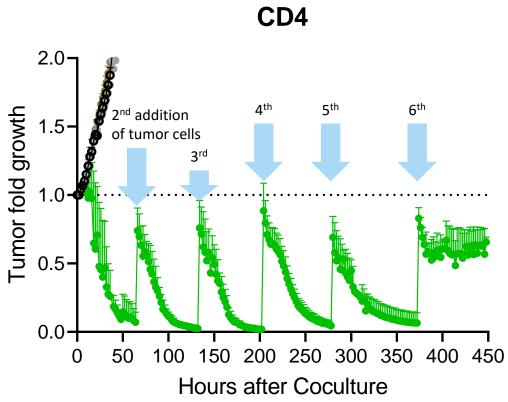
- IMA203CD8 (GEN2) designed to broaden the clinical potential of IMA203 TCR-T monotherapy by adding functional CD4 T cells via co-transduction of CD8 $\alpha\beta$ alongside PRAME TCR
- Activated CD4 T cells aid activity of other immune cells by releasing cytokines and acquire cytotoxic functions
- Functional CD4 T cells mediate longer anti-tumor activity than CD8 T cells and potentiate the anti-tumor activity of the cell product in preclinical studies¹
- Data from CD19 CAR-T-treated leukaemia patients suggest a relevant role of engineered CD4 T cells in long-term durability²

IMA203CD8 (GEN2) – Preclinical Assessment of Anti-Tumor Efficacy



Functional CD4 T cells Mediate Longer Anti-Tumor Activity than CD8 T cells in vitro

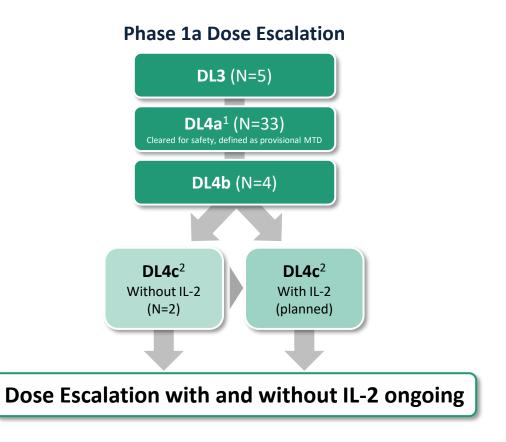




IMA203CD8 (GEN2) – Overview of Patient Characteristics



Data cut-off Sep 30, 2024



	Total Safety Population	Efficacy Population
Number of patients	N=44 ³	N=41 ⁴
Prior lines of systemic treatment (median, min, max)	3 (0, 8)	3 (0, 8)
LDH at baseline >1 x ULN [% of patients]	47.7	43.9
Baseline tumor burden Median target lesion sum of diameter [mm] (min, max)	84.5 (12.4, 434.4)	83.0 (12.4, 434.4)
With liver/brain lesions at baseline [% of patients]	45.5	43.9
Infused dose levels TCR-T cells/m ² BSA [x10 ⁹]	DL3: 0.2-0.48 DL4a: 0.481-0.8 DL4b: 0.801-1.2 DL4c ² : 0.801-1.2	DL3: 0.2-0.48 DL4a: 0.481-0.8 DL4b: 0.801-1.2 DL4c ² : 0.801-1.2
Total infused dose TCR-T cells [x10 ⁹] (median, min, max)	1.48 (0.44, 2.05)	1.47 (0.44, 2.05)

Tolerability Data – IMA203CD8 (GEN2)

All ≥Grade 3 Adverse Events (N=44)

TEAEs by maximum severity for all patients (N=44)

(System organ class, preferred term)No.%Patients with any adverse event44100.0Adverse events of special interest715.9Cytokine release syndrome¹613.6Immune effector cell-associated neurotoxicity syndrome12.3Blood and lymphatic system disorders44100.0Neutropenia4090.9Anaemia2556.8Lymphopenia2556.8Thrombocytopenia1534.1Leukopenia1125.0Febrile neutropenia24.5Investigations920.5Alanine aminotransferase increased511.4Aspartate aminotransferase increased511.4Blood creatinine increased24.5Blood bilirubin increased12.3Blood bilirubin increased12.3Blood bilirubin increased12.3Metabolism and nutrition disorders613.6Hypophosphataemia24.5Acidosis12.3Decreased appetite12.3Hypermagnesaemia12.3Hypermagnesaemia12.3Hypermagnesaemia12.3Hypermagnesaemia12.3Hypermagnesaemia12.3Hypermagnesaemia12.3Hypermagnesaemia12.3Hypermagnesaemia12.3Hypermagnesaemia12.3Hypermagnesaemia1	Adverse event		≥ Grade 3		
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Alanine aminotransferase increased Aspartate aminotransferase increased Blood creatinine increased Blood alkaline phosphatase increased Blood bilirubin increased Blood biliru	Febrile neutropenia	2	4.5		
Aspartate aminotransferase increased 5 11.4 Blood creatinine increased 2 4.5 Blood alkaline phosphatase increased 1 2.3 Blood bilirubin increased 1 2.3 Gamma-glutamyltransferase increased 1 2.3 Metabolism and nutrition disorders 6 13.6 Hypophosphataemia 2 4.5 Acidosis 1 2.3 Decreased appetite 1 2.3 Hyperglycaemia 1 2.3 Hypermagnesaemia 1 2.3 Hypoalbuminaemia 1 2.3 General disorders and administration site conditions 5 11.4 Fatigue 5 11.4 Oedema peripheral 1 2.3 Musculoskeletal and connective tissue disorders 5 11.4 Bone pain 3 6.8 Myalgia 2 4.5 Back pain 2 4.5	Investigations	9	20.5		
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Decreased appetite 1 2.3 Hyperglycaemia 1 2.3 Hypermagnesaemia 1 2.3 Hypoalbuminaemia 1 2.3 General disorders and administration site conditions 5 11.4 Fatigue 5 11.4 Oedema peripheral 1 2.3 Musculoskeletal and connective tissue disorders 5 11.4 Bone pain 3 6.8 Myalgia 2 4.5 Back pain 2 4.5	Hypophosphataemia	2	4.5		
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Hypermagnesaemia 1 2.3 Hypoalbuminaemia 1 2.3 General disorders and administration site conditions 5 11.4 Fatigue 5 11.4 Oedema peripheral 1 2.3 Musculoskeletal and connective tissue disorders 5 11.4 Bone pain 3 6.8 Myalgia 2 4.5 Back pain 2 4.5	Decreased appetite	1	2.3		
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Myalgia 2 4.5 Back pain 2 4.5	Musculoskeletal and connective tissue disorders	5	11.4		
Back pain 2 4.5	Bone pain	3	6.8		
2	Myalgia	2	4.5		
Arthralgia 1 2.3	Back pain	2	4.5		
	Arthralgia	1	2.3		

Adverse event	≥ Grade 3	
(System organ class, preferred term)	No.	%
table continued		
Immune system disorders	4	9.1
Haemophagocytic lymphohistiocytosis ²	4	9.1
Infections and infestations	4	9.1
Pneumonia	2	4.5
Infection	1	2.3
Sepsis ³	1	2.3
Systemic candida	1	2.3
Gastrointestinal disorders	3	6.8
Diarrhoea	2	4.5
Abdominal pain	1	2.3
Skin and subcutaneous tissue disorders	3	6.8
Rash	2	4.5
Alopecia	1	2.3
Rash maculo-papular	1	2.3
Vascular disorders	3	6.8
Hypertension	3	6.8
Nervous system disorders	2	4.5
Neurotoxicity ²	1	2.3
Syncope	1	2.3
Renal and urinary disorders	2	4.5
Acute kidney injury	1	2.3
Urinary tract obstruction	1	2.3
Hepatobiliary disorders	1	2.3
Hepatic function abnormal	1	2.3
Reproductive system and breast disorders	1	2.3
Pelvic pain	1	2.3

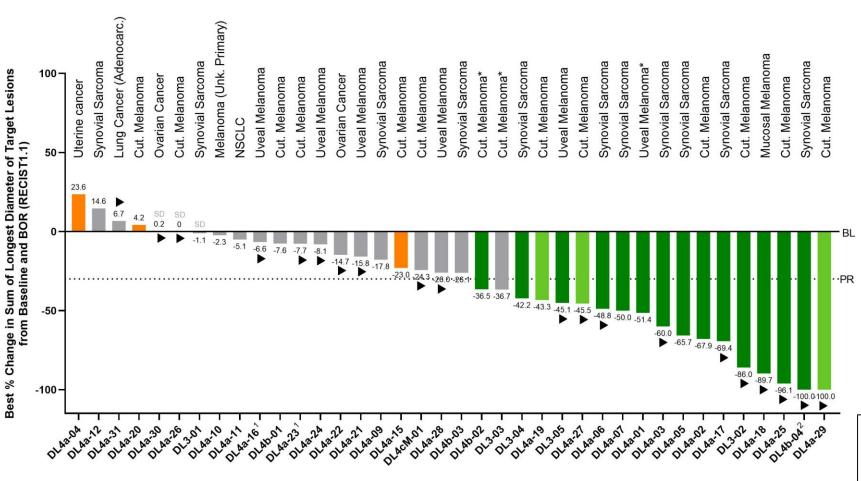
All treatment-emergent adverse events (TEAEs) with ≥ Grade 3 regardless of relatedness to study treatment that occurred in at least 1 patient are presented; ¹DLT: Dose limiting toxicity in patient DL4b-04. ²DLTs in patient DL4b-01; ³The patient's immediate cause of death was considered to be fatal sepsis, aggravated by the immunosuppression, a high-grade Immune Effector Cell-Associated Hemophagocytic Lymphohistiocytosis-Like Syndrome (IEC-HS), and the fast-progressing disease. Event was reported in Annual Report 2023.

- Overall manageable tolerability profile
- Expected cytopenia
- Mostly mild to moderate CRS:
 - 36% (16/44) Grade 1
 - 48% (21/44) Grade 2
 - 11% (5/44) Grade 3
 - 2% (1/44) Grade 4
- DLTs in 2 patients at DL4b as previously reported by the Company:
 - Patient DL4b-01: high in vivo T cell expansion, Grade 4 neurotoxicity, Grade 4 CRS, Grade 3 HLH
 - Patient DL4b-04: Grade 3 CRS defined by Grade 3 ALT resolved to Grade 2 within 10 days; no need for vasopressors or ventilation
- One possibly-related Grade 5 adverse event as previously reported by the Company:
 - Cause of death: fatal sepsis aggravated by immunosuppression, IEC-HS, fast-progressing disease
- Consecutive modification I/E criteria + IL2 scheme
- Dose escalation ongoing based upon manageable tolerability in patients at DL4a

IMA203CD8 (GEN2) (N=41) – Best Overall Response in Dose Escalation



Data cut-off Sep 30, 2024



41% (14/34) cORR

median DOR 9.2 months (min, max) 2.0+, 23.5+ 13.1 months

10/17 responses ongoing including 3 confirmed responses at 1+ year

Deep responses with ≥50% tumor size reduction in 11/17 responders incl. 2 patients with complete response of target lesions

41% (17/41)

Tumor shrinkage³ 84% (32/38)

DCR⁴ (at week 6) 85% (34/40)

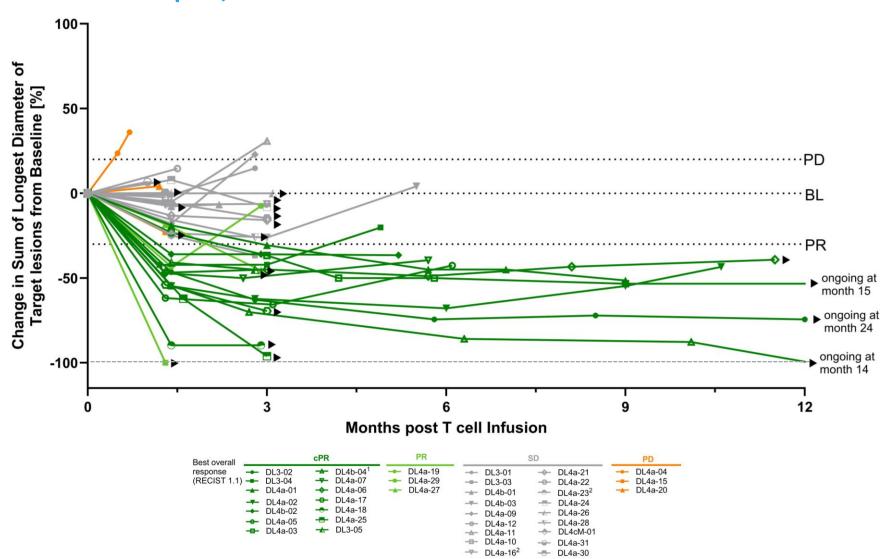


Initial ORR: Objective response rate according to RECIST 1.1 at any post infusion scan; Confirmed ORR (cORR): Confirmed objective response rate according to RECIST 1.1 for patients with at least two available post infusion scans or patients with progressive disease (PD) at any prior timepoint, patients with ongoing unconfirmed PR not included in cORR calculation; Duration of response (DOR) in confirmed responders is defined as time from first documented response until disease progression/death. Patients with ongoing response will be censored at date of data cut-off. Median DOR is analyzed by using the Kaplan-Meier method; Median Follow-up is analyzed by using the reverse Kaplan-Meier method; PD: Progressive Disease; SD: Stable Disease; PR: Partial Response; cPR: Confirmed Partial Response; BL: Baseline; BOR: Best Overall Response; DOR: Duration of Response

IMA203CD8 (GEN2) (N=41) – Response over Time in Dose Escalation



Data cut-off Sep 30, 2024



cORR 41% (14/34)

median DOR 9.2 months (min, max) 2.0+, 23.5+ mFU 13.1 months

10/17 responses ongoing including 3 confirmed responses at 1+ year

Deep responses with ≥50% tumor size reduction in 11/17 responders incl. 2 patients with complete response of target lesions

41% (17/41)

Tumor shrinkage³ 84% (32/38)

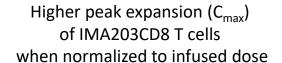
DCR⁴ (at week 6) 85% (34/40)

Initial ORR: Objective response rate according to RECIST 1.1 at any post infusion scan: Confirmed ORR (cORR): Confirmed objective response rate according to RECIST 1.1 for patients with at least two available post infusion scans or patients with progressive disease (PD) at any prior timepoint, patients with ongoing unconfirmed PR not included in cORR calculation; Duration of response (DOR) in confirmed responders is defined as time from first documented response until disease progression/death. Patients with ongoing response will be censored at date of data cut-off. Median DOR is analyzed by using the Kaplan-Meier method Median Follow-up is analyzed by using the reverse Kaplan-Meier method; PD: Progressive Disease; SD: Stable Disease; PR: Partial Response; cPR: Confirmed Partial Response: BL: Baseline: BOR: Best Overall Response: DOR: Duration of

IMA203CD8 (GEN2): Translational Data Shows Enhanced Pharmacology



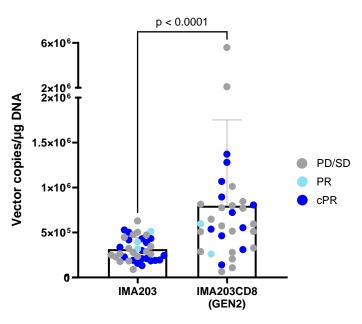
IMA203 Phase 1b vs IMA203CD8 (GEN2)

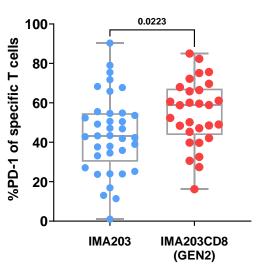


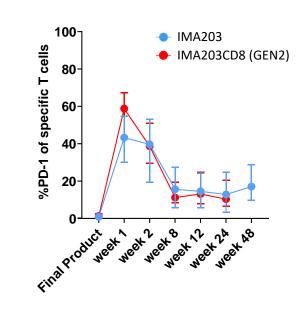
Higher activation levels in IMA203CD8 T cells at week 1...

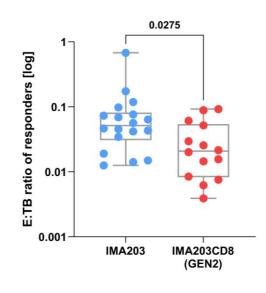
...without exhaustion over time

Trend towards responses at lower cell dose and higher tumor burden with IMA203CD8





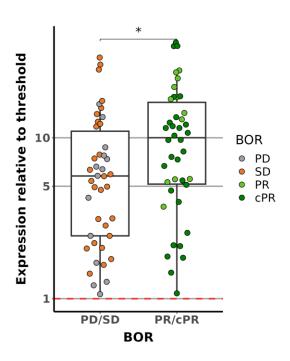




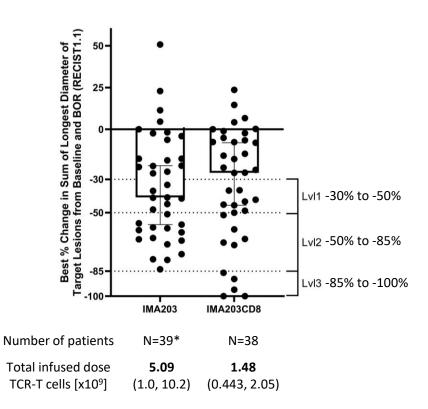
Opportunity of IMA203CD8 in Medium-Level PRAME Expressing Indications



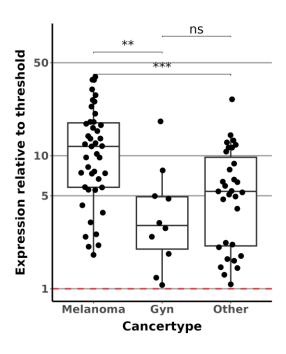
PRAME expression level associates with clinical activity in IMA203 and IMA203CD8 treated patients



Both IMA203 and IMA203CD8 achieve deep responses despite IMA203CD8 patients receiving lower doses

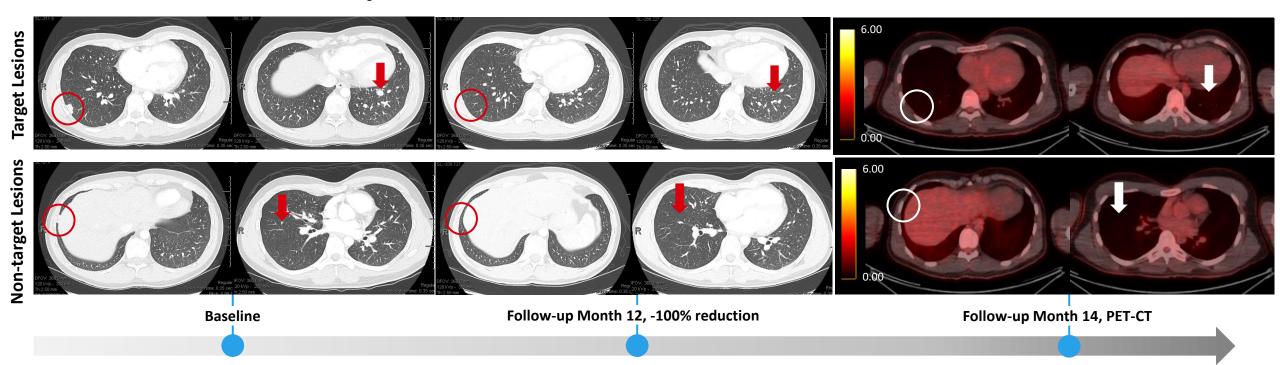


Enhanced pharmacology of IMA203CD8, with potential for higher dosing, opens avenues to explore its full potential in patients with medium-level PRAME expression



Patient Case DL4b-04: Synovial Sarcoma





24-year-old male patient with complete remission according to PET imaging after 14 months post infusion

- 1 prior systemic treatment line: Doxorubicin + Ifosfamide + Mesna
- 3 years of cancer history
- At BL: 33.4 mm TL sum in lung, NTL in lymph nodes and lung
- Received ~2.05x10⁹ IMA203CD8 TCR-T cells
- Metabolic CR on investigator-initiated PET month 14 post infusion
- Ongoing PR at 14+ months post infusion with -100% reduction according to RECIST 1.1

ACTengine® IMA203CD8 (GEN2) TCR-T Monotherapy Targeting PRAME



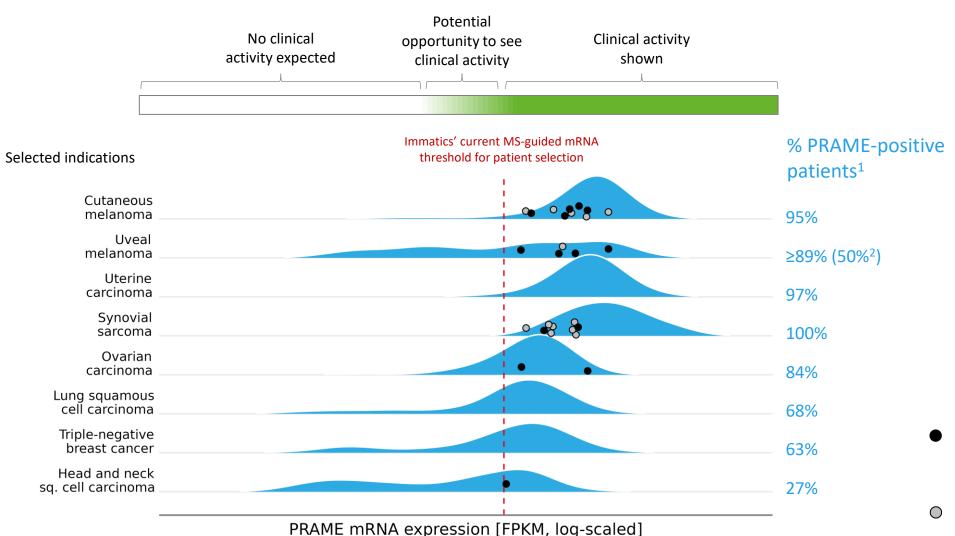
Summary of IMA203CD8 Clinical Data and Planned Next Steps

- Manageable tolerability with most frequent ≥Grade 3 AEs being expected cytopenia
 - DLTs in 2 patients at DL4b triggered dosing adjustment to DL4a
 - Manageable tolerability in patients at DL4a combined with modifications of the eligibility criteria and IL-2 scheme allows further exploration of higher doses
- Deep and durable objective responses already observed at low doses (median: 1.48 x10⁹ T cells)
 - 41% (14/34) cORR and tumor shrinkage in 84% (32/38) of patients including two patients with complete response of target lesions
 - 9.2 months median DOR with 3 confirmed responses ongoing at 1+ year
- Opportunity of IMA203CD8 in medium-level PRAME expressing indications
 - Association of PRAME expression with clinical activity in IMA203 and IMA203CD8 treated patients
 - Deep responses with IMA203CD8, even though applied dose still lower than IMA203
- Dose escalation with and without post-infusion low-dose IL-2 is ongoing to investigate the full clinical potential of IMA203CD8 in hard-to-treat solid tumors such as ovarian cancer, endometrial cancers and triple-negative breast cancer

Potential of IMA203 in Additional Solid Cancer Indications



Based on PRAME Expression in IMA203 and IMA203CD8 (GEN2) Responders



- PRAME mRNA expression in IMA203 (GEN1) (n=14)
 Data cut-off Aug 23, 2024
- PRAME mRNA expression in IMA203CD8 (GEN2) responders (n=13)
 Data cut-off Sep 30, 2024



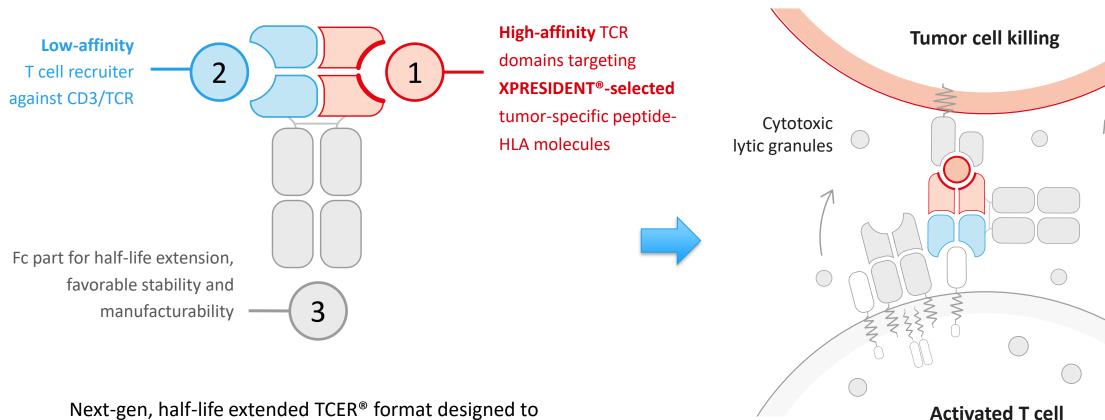


TCER® – TCR Bispecifics

TCER® – Immatics' Next-generation, Half-Life Extended Bispecifics



Proprietary TCER® Format Consisting of Three Distinct Elements

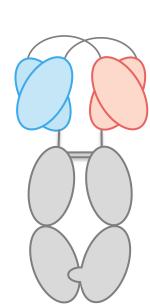


Next-gen, half-life extended TCER® format designed to

- → safely apply high drug doses for activity in a broad range of tumors
- → achieve optimized scheduling

TCER® - Immatics' Next-generation, Half-Life Extended Bispecifics





pHLA targeting TCR

- ✓ **High-affinity** (single digit nM) TCR targeting **XPRESIDENT®-selected** tumor-specific peptide-HLA molecules
- ✓ Broad therapeutic window through XPRESIDENT®-guided affinity maturation (>1000x)¹
- ✓ **Complete tumor eradication** in mouse xenograft models at low doses

2 T cell recruiting antibody

- ✓ Low-affinity (triple digit nM) T cell recruiter against both TCR & CD3
- ✓ Optimized biodistribution aiming for enrichment at tumor site and prevention of CRS²
- ✓ **Superior anti-tumor activity** in mouse models as compared to widely used CD3 recruiters

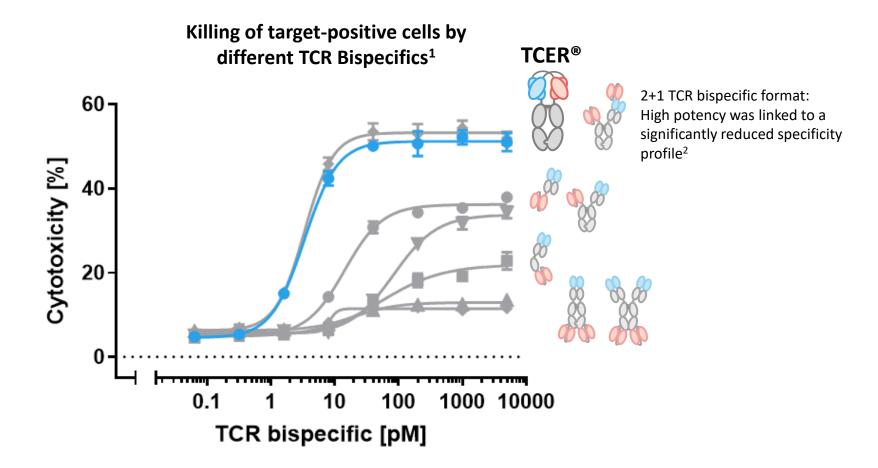
Next-generation TCER® format

- ✓ Off-the-shelf biologic with antibody-like manufacturability³ and low cost of goods
- ✓ Superior anti-tumor activity⁴ compared to six alternative bispecific formats
- ✓ Half-life of several days expected in humans

Our TCER® format is designed to maximize efficacy while minimizing toxicities in patients

Potency of Our Proprietary TCR Bispecific Format TCER®



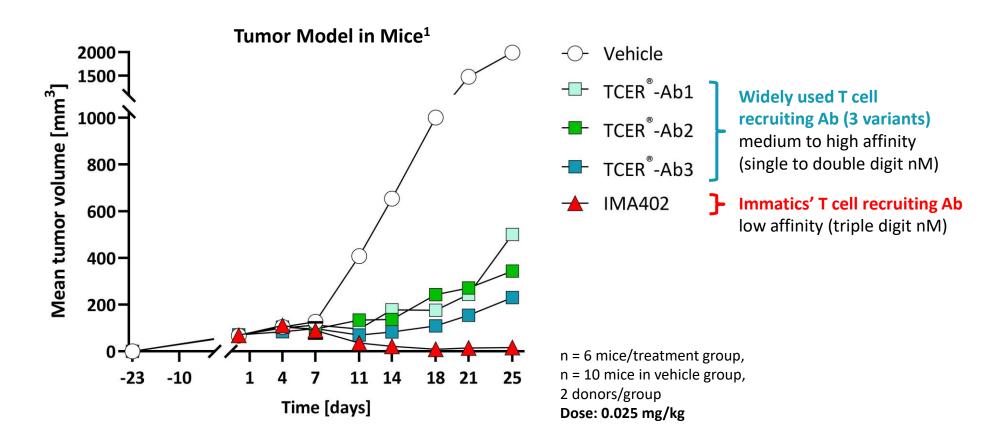


- Seven different TCR Bispecific formats were evaluated with a pHLA targeting TCR and the identical T cell recruiting antibody
- TCER® format had higher combination of potency and specificity² than six alternative TCR Bispecific format designs evaluated Flexible Plug-and-play platform: TCER® format successfully validated for different TCRs & different T cell recruiting antibodies

TCER® Format Is Designed for Optimized Efficacy and Safety



Superior Tumor Control Using a Novel, Low-Affinity Recruiter

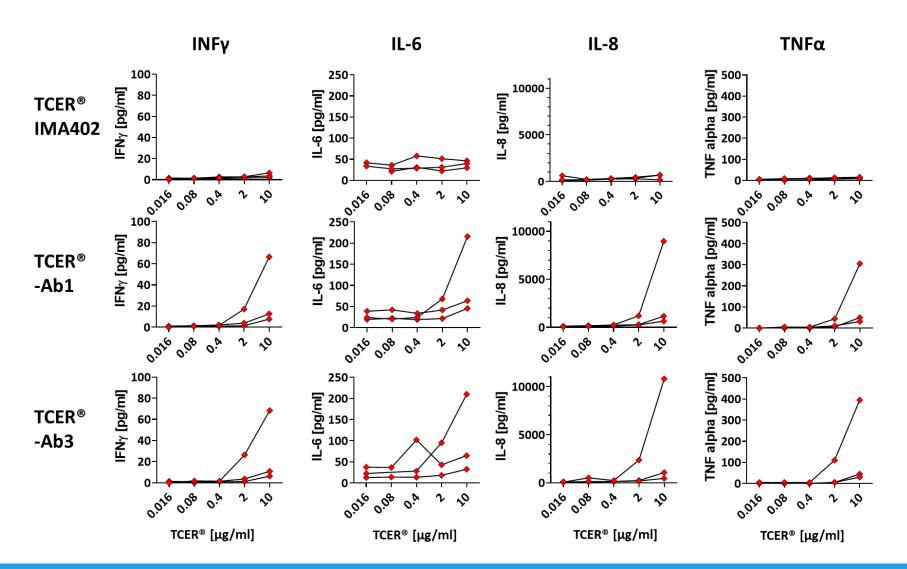


Proprietary, **low-affinity T cell recruiting region** demonstrates superior tumor control compared to analogous TCER® molecules designed with higher-affinity variants of a widely used recruiter

TCER® Format Is Designed for Optimized Efficacy and Safety



Reduced Target-Unrelated Recruiter-Mediated Cytokine Release using a Low-Affinity Recruiter



Whole blood cytokine release assay N=3 HLA-A*02-positive donors N=16 cytokines tested, 4 exemplary cytokines shown

Our TCER® Portfolio



Broad Pipeline of Next-Gen Half-Life Extended TCR Bispecifics

IMA401

• MAGEA4/8 peptide presented by HLA-A*02:01

• Dose escalation ongoing, first clinical data presented at ESMO 2024

IMA402

- PRAME peptide presented by HLA-A*02:01
- Start of clinical trial in Aug 2023, first clinical data published in November 2024

IMA40x

Several innovative programs

- Undisclosed peptides presented by HLA-A*02:01 and other HLA-types
- TCER® engineering and preclinical testing ongoing

Potential for addressing different indications and large patient populations with novel, off-the-shelf TCR Bispecifics

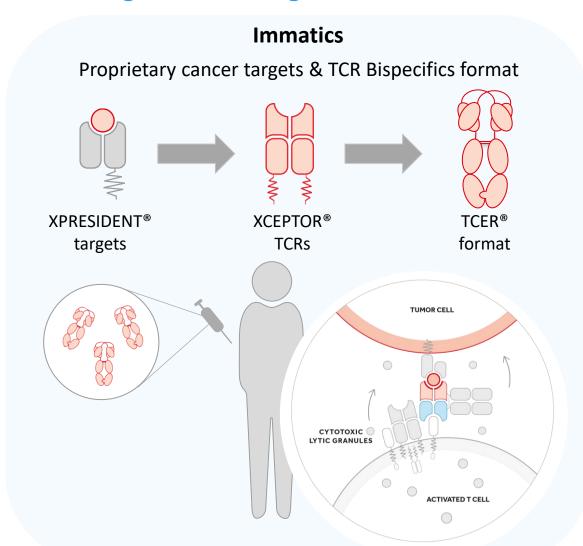
The current collaboration with Moderna includes the development of mRNA-enabled in vivo expressed TCER® molecules

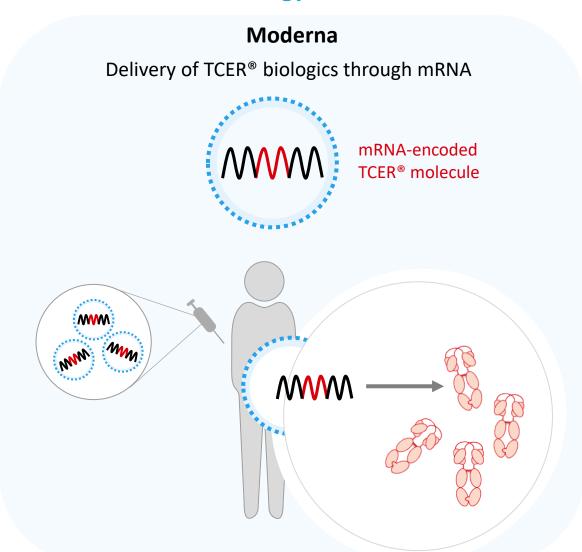
PRECLINICA

In Vivo Expressed TCER® Molecules Targeting Cancer-specific pHLA Targets



Combining Immatics' Target and TCR Platforms with Moderna's mRNA Technology









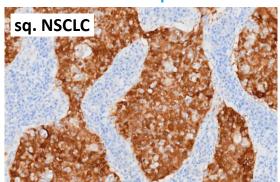
TCER® IMA401 Targeting MAGEA4/8

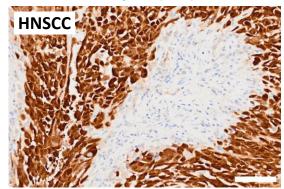
TCER® IMA401 Targeting MAGEA4/8

Higher Target Density of MAGEA4/8 Peptide

immatics

MAGEA4 protein detection in tumor samples (IHC)





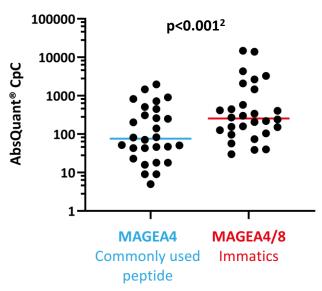
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MAGEA4/8 target prevalence in selected cancer indications

Indications	Target prevalence ¹ [%]	Number of addressable patients*
Squamous non-small cell lung carcinoma	52%	22k
Head and neck squamous cell carcinoma	36%	7k
Bladder carcinoma	29%	9k
Ovarian carcinoma	23%	4k
Esophageal carcinoma	23%	3k
Small cell lung cancer	21%	4k
Triple-negative breast cancer	20%	2k
Gastric adenocarcinoma	14%	3k
Cutaneous melanoma	18%	2k
Non-small cell lung adenocarcinoma	9%	6k

^{*1}L+ Unresectable or Metastatic Addressable Patient Populations (US, UK, EU4 in 2025), total MAGE A4/A8+ and HLA-A*02+

MAGEA4 and MAGEA4/8 Peptide (AbsQuant®)



MAGEA4/8 target is presented at >5-fold higher target density³ than a commonly used MAGEA4 target peptide

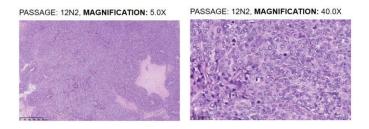
TCER® IMA401 (MAGEA4/8) – Assessment of Anti-Tumor Activity in vivo

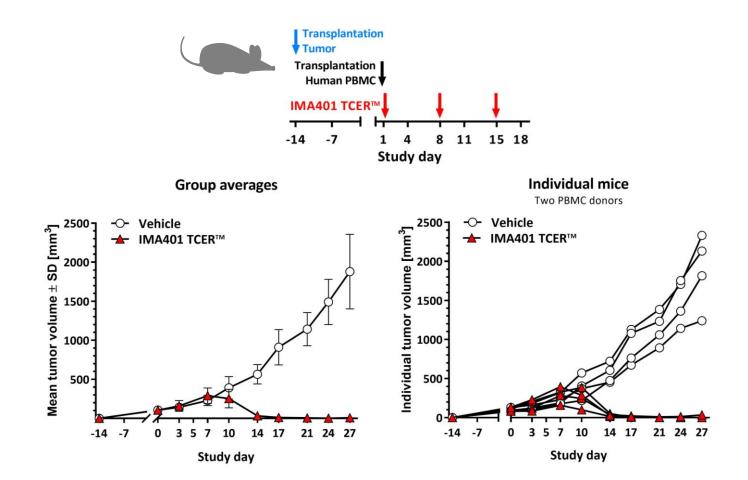


Patient-Derived Tumor Model

NSCLC adenocarcinoma:

- Male, Caucasian, age 58, no therapy prior to surgery
- Site of origin: lung, differentiation poor
- Date of surgery: 1987, Freiburg Medical Center
- Volume doubling time: 7.3 day
- Histology:
 - Stroma content, 4%
 - · Vascularization, high
 - · Grading, undifferentiated



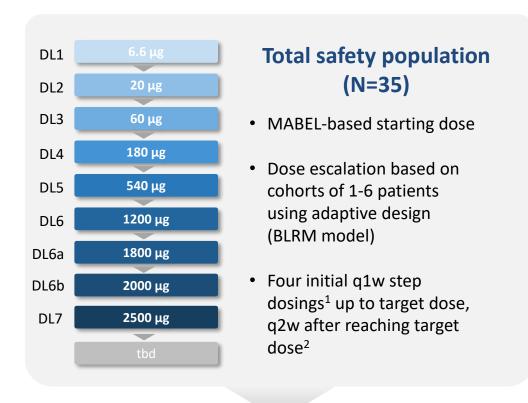


- TCER® IMA401 shows high anti-tumor activity in Patient-derived xenograft model of non-small cell lung adenocarcinoma
- Remission observed in all mice (3 out of 4 mice with complete remission)

Trial Design – IMA401-101 Phase 1a Dose Escalation



First-in-Human Basket Trial Targeting the MAGEA4/8 Peptide in Solid Tumors



- MTD not yet determined
- Dose escalation ongoing to optimize dosing intervals and schedule

Objectives

Primary:

Determine MTD and/or RP2D

Secondary:

- Tolerability
- Pharmacokinetics
- Initial anti-tumor activity

Key Eligibility Criteria

- Recurrent and/or refractory solid tumors
- HLA-A*02:01 positive
- MAGEA4/8-positive as confirmed by mRNA-based assay³
- ECOG status 0-2
- Received or not eligible for all available indicated standard of care treatments

Baseline Characteristics



Heavily Pre-treated Patients with a Broad Range of Tumor Types

Characteristic	Safety Population N=35	Efficacy-evaluable Population ¹ N=29	Patients with relevant IMA401 doses and MAGEA4/8 ^{high} levels ² N=17
Age Median (min, max)	62 (19, 82)	63 (35, 82)	64 (35, 82)
ECOG performance status 0 - n [%] 1 - n [%] 2 - n [%]	10 [28.6] 23 [65.7] 2 [5.7]	6 [20.7] 21 [72.4] 2 [6.9]	3 [17.6] 12 [70.6] 2 [11.8]
Prior lines of systemic treatment Median (min, max)	4 (2, 8)	3 (2, 8)	4 (2, 8)
LDH at baseline ≤ 1xULN [%] 1-2xULN [%] > 2xULN [%]	51.4 40.0 8.6	55.2 41.4 3.4	41.2 58.8 0.0
Baseline tumor burden Median target lesion sum of diameter [mm] (min, max)	74 (15, 202.8)	80 (15, 202.8)	84 (18, 202.8)
Number of organs with metastases Median (min, max)	3 (1, 6)	3 (1, 6)	3 (1, 6)
Liver/ Brain Lesions [% of patients]	40.0	41.4	47.1

IMA401 Demonstrates Manageable Tolerability in N=35 Patients



Most Frequent Related AEs were Lymphopenia, CRS and Neutropenia

Treatment-related AEs ¹ , n [%]	All Grades	≥ Grade 3
Lymphopenia	12 [34]	11 [31]
Cytokine release syndrome	11 [31]	0
Neutropenia	8 [23]	5 [14]
Facial pain	6 [17]	2 [6]
Anaemia	5 [14]	4 [11]
Thrombocytopenia	5 [14]	2 [6]
Headache	5 [14]	1 [3]
Hypertension	4 [11]	2 [6]
Leukopenia	4 [11]	2 [6]
Fatigue	4 [11]	0
Nausea	3 [9]	0
Нурохіа	2 [6]	1 [3]
Aspartate aminotransferase increased	1 [3]	1[3]
Febrile neutropenia	1 [3]	1[3]
Pneumonia	1 [3]	1[3]
Sinus tachycardia	1 [3]	1[3]

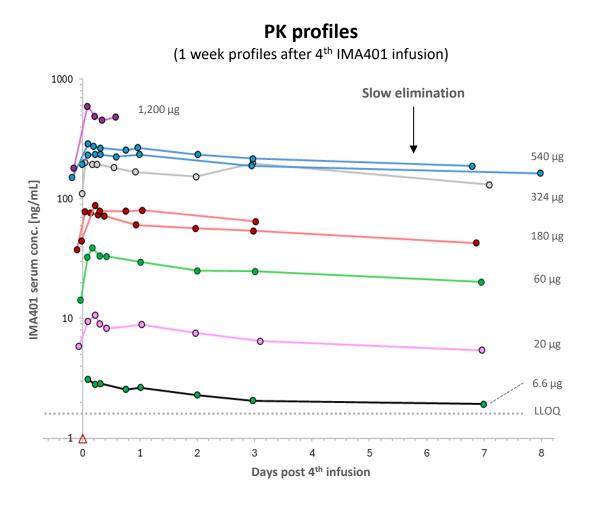
TEAEs, n [%]	All Grades	≥ Grade 3
Any	32 [91]	26 [74]
Treatment-related	28 [80]	19 [54]

- Overall manageable tolerability profile
- Most frequent/relevant related AEs were
 - transient lymphopenia,
 - mild to moderate CRS (23% Grade 1, 9% Grade 2, no
 Grade ≥ 3), majority at first dose
 - neutropenia² occurred mostly at initial target dose and fully resolved in all cases except one (see below)
 - one possibly related death (pneumonia in the context of lung tumor progression and concurrent neutropenia) as previously reported³
- MTD not reached based on the BLRM

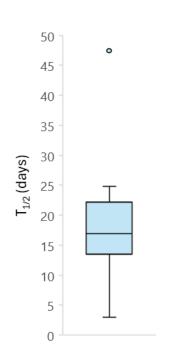
IMA401 Pharmacokinetics



TCER® Format Shows Extended Half-Life in Solid Cancer Patients



Median half-life: 16.9 days (N=16)¹



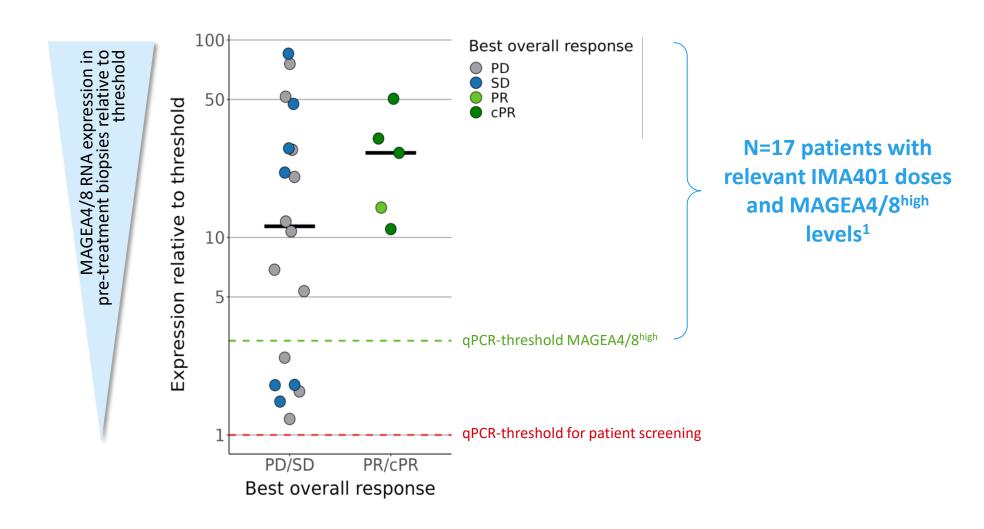
Observed $T_{1/2} > 2$ weeks

- Confirms "antibody-like" halflife predicted by preclinical invivo data²
- Supports exploring increased dosing intervals of up to q4w and pursuing alignment with typically applied CPI dosing regimens

Objective Responses are Associated with Target Expression



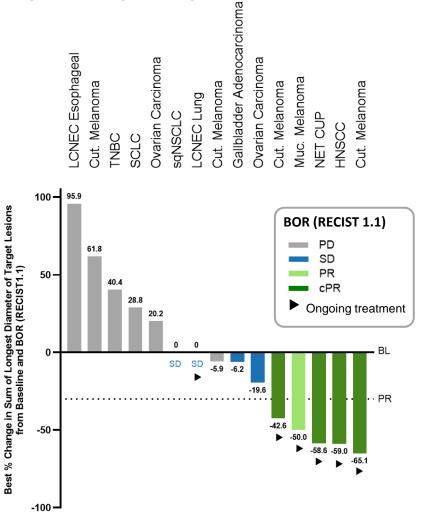
Exploratory Analysis in Patients with MAGEA4/8^{high} Expression at Relevant IMA401 Doses (DL6-7; N=17)

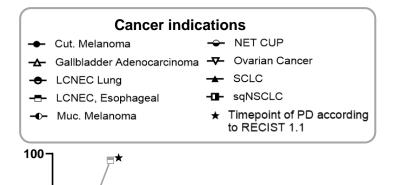


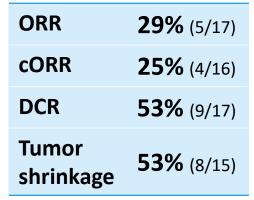


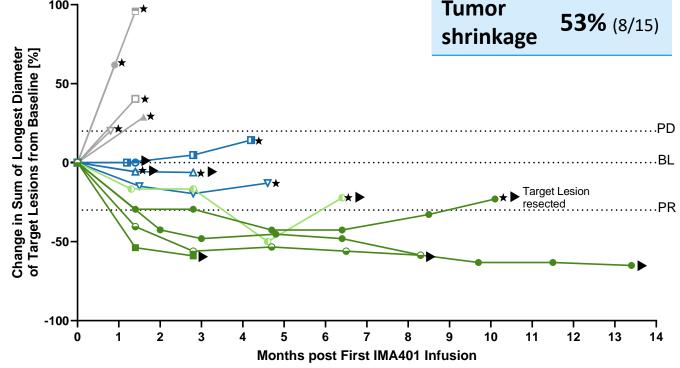


Exploratory Analysis in Patients with MAGEA4/8^{high} Expression at Relevant IMA401 Doses (DL6-7; N=17*)









Cancer Indications: Cut.: Cutaneous; HNSCC: Head & Neck Squamous Cell Carcinoma; LCNEC: Large Cell Neuroendocrine Carcinoma; Muc.: Mucosal; NET CUP: Neurodendocrine Tumor, Cancer of Unknown Primary; SCLC: Small Cell Lung Cancer; sqNSCLC: Squamous Non-small Cell Lung Cancer; TNBC: Triple Negative Breast Cancer.

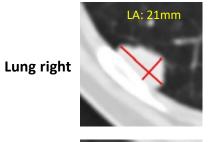
Clinical Activity in Heavily Pre-Treated Cancer Patients

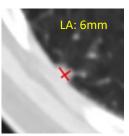


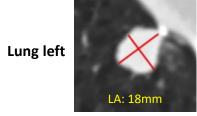
63-year-old male, HNSCC, MAGEA4/8high

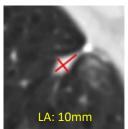
60-year-old female, NET CUP, MAGEA4/8^{high}

Baseline CT Follow Up Week 13



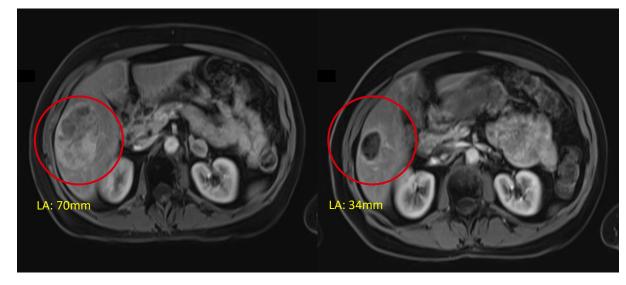






Baseline MRI

Follow Up Week 13



Patient Characteristics	Outcomes
HNSCC, Hypopharynx	cPR -59% reduction
Lesions in lung	cPR ongoing at week 12 post- treatment start
3 prior lines of therapy: Platinum chemotherapy, anti-PD-1/chemotherapy, anti-EGFR/chemotherapy	

Patient Characteristics	Outcomes
NET CUP	cPR -56% reduction (BOR: -58.6%)
Lesions in liver, lung, bone, pancreas, adrenal gland, lymph nodes	cPR ongoing at week 36 post- treatment start
4 prior lines of therapy: Two lines of radiopharmaceuticals, chemotherapy, mTOR inhibitor	

First-in-human Data of IMA401 TCER® Targeting MAGEA4/8



Presentation at ESMO on September 16, 2024

- Tolerability: Most common treatment-related AEs are low-grade CRS, transient lymphopenia and neutropenia
- **Pharmacokinetics**: Median terminal half-life of 16.9 days supporting potential further flexibility in future dosing schedules incl. combination with CPI and increased dosing intervals up to q4w
- Initial anti-tumor activity in heavily pre-treated patients
 - Objective responses in HNSCC, neuroendocrine tumor of unknown origin, cutaneous and mucosal melanoma including durable ongoing PRs of up to 13+ months
 - Deep responses (tumor shrinkage of ≥ 50%) in four patients including deepening of responses over time
 - Objective responses are associated with target expression and IMA401 dose: ORR 29%, cORR 25%, and tumor shrinkage in 53% of patients with relevant IMA401 doses and MAGEA4/8^{high} target levels
- Dose escalation ongoing



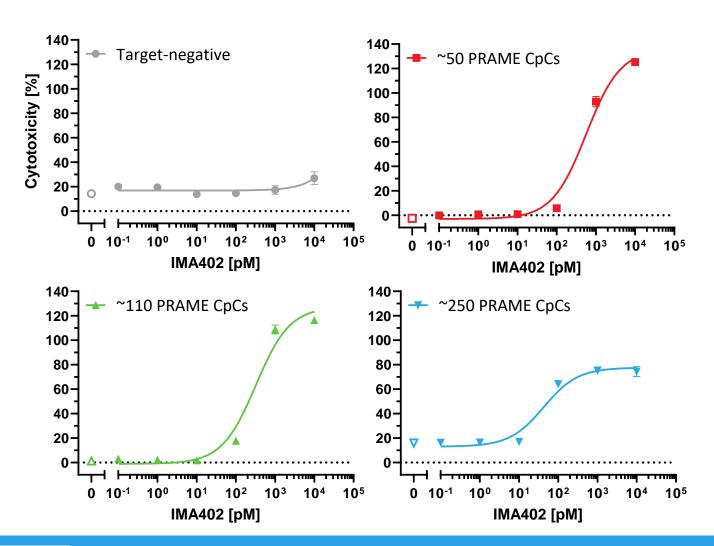


TCER® IMA402 Targeting PRAME

TCER® IMA402 Targeting PRAME – Efficacy Assessment in vitro



Tumor Cell Killing at Low Physiological PRAME Peptide Levels

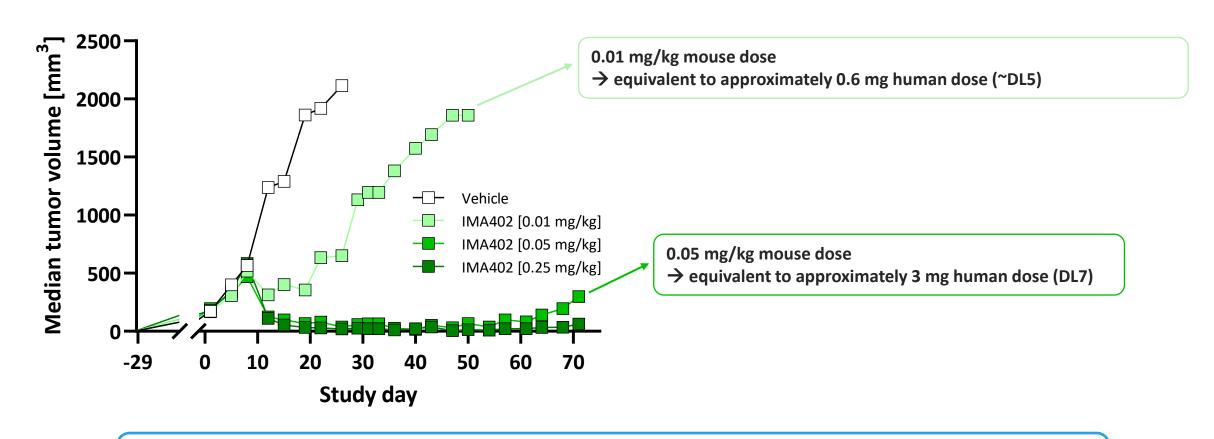


- TCER® IMA402 induces killing of tumor cells with PRAME target copies as low as 50 CpCs
- Physiological PRAME levels detected in majority of cancer tissues from patients are 100 – 1000 CpCs
- Preclinical activity profile enables targeting of a broad variety of tumor indications, such as lung cancer, breast cancer, ovarian cancer, uterine cancer, melanoma and others





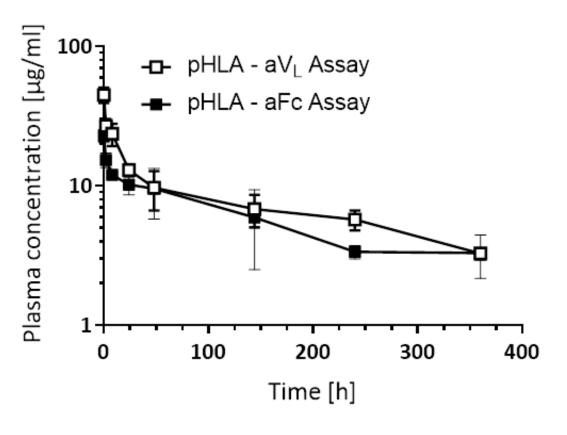
Dose-response Relationship in Mouse Xenograft Model



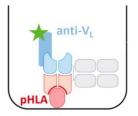
Preclinical data suggest that a dose of ≥3mg of IMA402 (DL7 in Phase 1 trial) is expected to start showing relevant efficacy in humans

Half-life Extended Format of IMA402 Confers Terminal Half-life of >1 Week

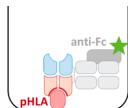




pHLA – aV, Assay



pHLA – aFc Assay



- IMA402 shows a terminal serum half-life of ≈ 8 days in mice
- IMA402 will be initially dosed weekly in the clinical trial
- Dosing frequency may be adapted based on clinical data

Phase 1/2 Clinical Trial to Evaluate TCER® IMA402 Targeting PRAME



Trial Overview

Phase 1/2 clinical trial to evaluate safety, tolerability and anti-tumor activity of IMA402

- HLA-A*02:01-positive patients with recurrent and/or refractory solid tumors with high PRAME prevalence
- Initially weekly i.v. infusions
- Potential for early adjustment of treatment interval based on PK data of half-life extended TCER® format

Phase 1: Dose Escalation

Adaptive design aimed at accelerating dose escalation



- Basket trial in focus indications to accelerate signal finding
- Melanoma, ovarian cancer, lung cancer, uterine cancer and others

Phase 2a: Dose Expansion

Expansion cohort

Expansion cohort

Expansion cohort

- Specific indications plus ongoing basket
- Combination therapies
- Optional dose/application optimization

Baseline Characteristics



Heavily Pre-treated Patients

	Safety population (N=33)	Efficacy-evaluable population ¹ (N=21 excl. PRAME neg.)		
	All notionts does d	PRAME-negative patients	PRAME-positiv	/e/NT patients
Characteristic	All patients dosed DL1-DL8	across DLs N=7	DL1-DL6 N=12	DL7+ N=9
Age Median (min, max)	61 (28, 82)	62 (56, 75)	62 (28, 82)	61 (40, 74)
ECOG performance status 0 - n [%] 1 - n [%] 2 - n [%]	18 [54.5] 15 [45.5] 0 [0.0]	4 [57.1] 3 [42.9] 0 [0]	5 [41.7] 7 [58.3] 0 [0]	7 [77.8] 2 [22.2] 0 [0.0]
Prior lines of systemic treatment Median (min, max)	3 (1, 5)	3 (1, 4)	3.5 (2, 5)	3 (1, 5)
LDH at baseline ≤ 1xULN [%] 1-2xULN [%] > 2xULN [%]	15 [45.5] 15 [45.5] 3 [9.1]	4 [57.1] 2 [28.6] 1 [14.3]	4 [33.3] 7 [58.3] 1 [8.3]	5 [55.6] 4 [44.4] 0 [0.0]
Baseline tumor burden Median target lesion sum of diameter [mm] (min, max)	76.5 (24.5, 398)	80.0 (30.1, 180)	76.4 (46, 398)	61.4 (24.5, 258)
Number of organs with metastases Median (min, max)	3 (1, 8)	2 (1, 5)	3 (2, 7)	3 (1, 6)
Liver and/or Brain Lesions [% of patients]	54.5	71.4	41.7	55.6

IMA402 Demonstrates Favorable Tolerability in N=33 Patients



Most Frequent Related AEs were Lymphopenia and CRS

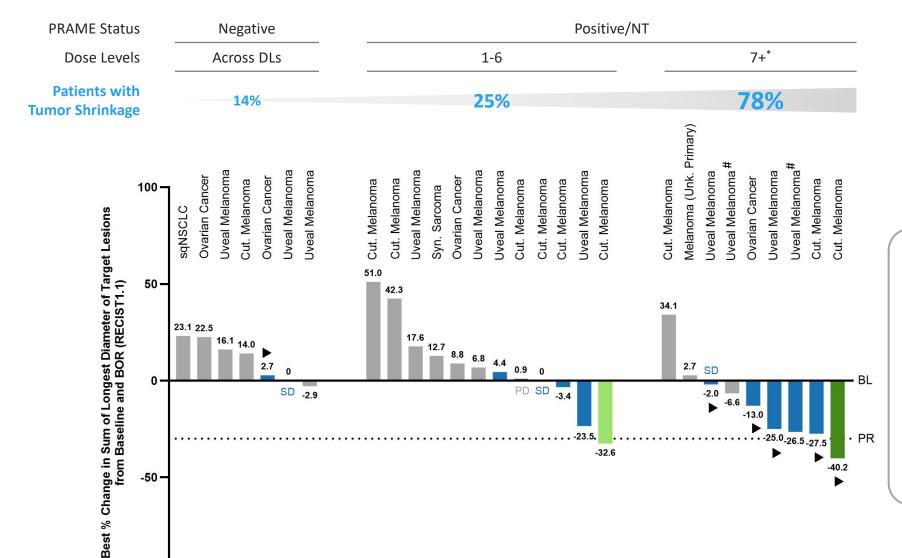
	- 11 - 1	
Treatment-related AEs ¹ , n [%]	All Grades	≥ Grade 3
Lymphopenia	17 [52]	10 [30]
Cytokine release syndrome	16 [48]	1 [3]
Arthralgia	9 [27]	0
Fatigue	9 [27]	0
Pruritus	7 [21]	0
Rash	7 [21]	0
Aspartate aminotransferase increased	6 [18]	2 [6]
Alanine aminotransferase increased	5 [15]	1 [3]
Pyrexia	5 [15]	0
Anaemia	4 [12]	2 [6]
Vomiting	4 [12]	0
C-reactive protein increased	3 [9]	0
Headache	3 [9]	0
Rash maculo-popular	3 [9]	0
Neutropenia	2 [6]	2 [6]
Stomatitis	2 [6]	1 [3]
Blood creatinine increased	1 [3]	1 [3]
Electrocardiogram abnormal	1 [3]	1 [3]
Gamma-glutamyltransferase increased	1 [3]	1 [3]
Hypertension	1 [3]	1 [3]
Immune-mediated arthritis	1 [3]	1 [3]
Tumor lysis syndrome	1 [3]	1 [3]
Tumor pain	1 [3]	1 [3]

TEAEs, n [%]	All Grades	≥ Grade 3
Any	33 [100]	17 [52]
Treatment-related	32 [97]	15 [45]

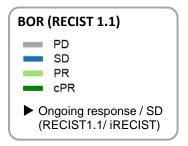
- Favorable tolerability profile
- Most frequent/relevant related AEs were
 - transient lymphopenia,
 - mostly mild to moderate CRS (42% Grade 1, 3% Grade 2, 0% Grade 3, 3% Grade 4),
 majority at first dose
 - One DLT: Grade 4 CRS (fully resolved)
- No IMA402-related Grade 5 events
- MTD not reached

Early Signs of Clinical Activity Associated with PRAME Expression and IMA402 Dose





-100 -

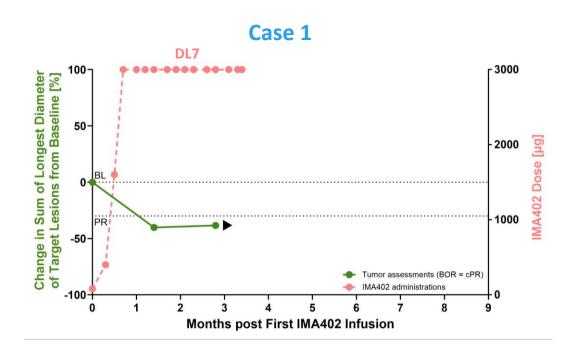


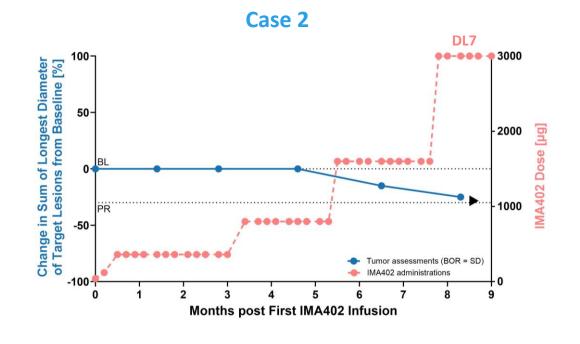
- Melanoma patient with confirmed partial response ongoing at 3 months (DL7, see next slide)
- Melanoma patient with -27.5% tumor shrinkage at first scan (DL8)
- Uveal melanoma patient with -25.0% tumor shrinkage deepening over time (started at DL4 and currently at DL7, see next slide)
- Ovarian cancer patient with -13% tumor shrinkage ongoing at 3 months (started at DL6 and currently at DL7)

Exemplary Patient Cases Suggesting Dose-Dependent Tumor Response



Patients with Disease Control (RECIST1.1) at Relevant Doses (DL7+)





Patient Characteristics & Outcomes

52-year-old female with cutaneous melanoma

Lesions in lung, lymph nodes, gall bladder, fat tissue, pancreas

1 prior line of therapy and maintenance with anti-PD-1

Patient received DL7 from start (after step-up dosing)

Ongoing cPR at 3 months post treatment start with -40.2% reduction of target lesion size

Patient Characteristics & Outcomes

46-year-old female with uveal melanoma

Lesions in liver

3 prior lines of therapy with anti-PD1 and tebentatafusp

Patient received DL4 and went up to DL7 through intra-patient dose escalation

Ongoing SD at 8+ months post-treatment start with -25% reduction of target lesion size

IMA402 Phase 1 Dose Escalation Study



Summary as of Nov 6, 2024

- Study design and patient population
 - BLRM-model based dose escalation with currently 33 patients treated with IMA402 at a dose range from 0.02 mg to 4 mg

 → preclinical in-vivo data suggested relevant anti tumor efficacy starting at ~3 mg human equivalent dose (DL7)
 - Advanced metastatic solid cancer patients with no available treatment option, PRAME expression tested retrospectively
 - Efficacy-evaluable population: N=21 patients (per protocol and excluding PRAME-negative patients)
 - Relevant patient population: N=9 patients received ≥3 mg (DL7) via initial or escalated dose (N=8 DL7, N=1 DL8)
- Favorable tolerability profile with CRS and transient lymphopenia being most common AE, dose escalation ongoing
- Early PK data indicates median half-life of ~7 days, potentially enabling bi-weekly dosing
- Initial signs of clinical activity, associated with PRAME expression and IMA402 dose
 - No relevant tumor shrinkage in PRAME-negative patients
 - Dose-dependent clinical activity in PRAME-positive/NT patients with DCR of 52% across all doses
 - Tumor shrinkage in 25% of patients at low doses (DL1-6) including one unconfirmed partial response
 - Tumor shrinkage in 78% (7/9) of patients at relevant doses (DL7+, ≥3 mg) including
 - 1 cPR in cutaneous melanoma (-40.2% and ongoing at 3 months)
 - 2 SD with significant tumor shrinkage in cutaneous/uveal melanoma (-27.5%/-25% and ongoing at 6+ weeks/8+ months)
 - 1 SD in ovarian cancer (-13% and ongoing at 3 months)

For comprehensive patient flow chart, see appendix

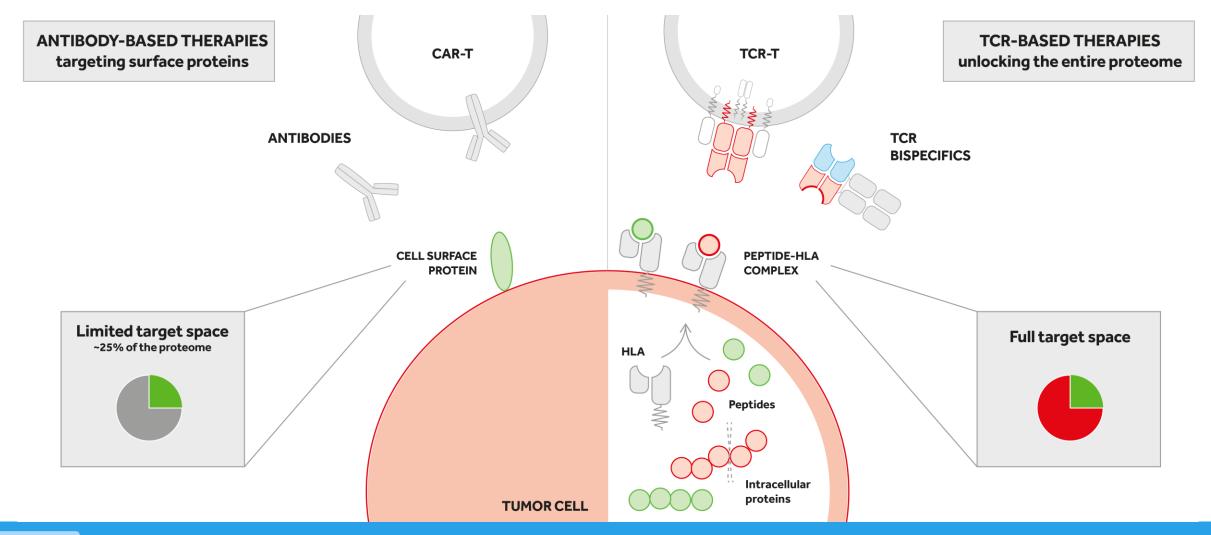




Immatics' Proprietary Target and TCR Discovery Platforms

Our TCR-based Approaches Leverage the Full Target Space beyond the Cancer Cell Surface

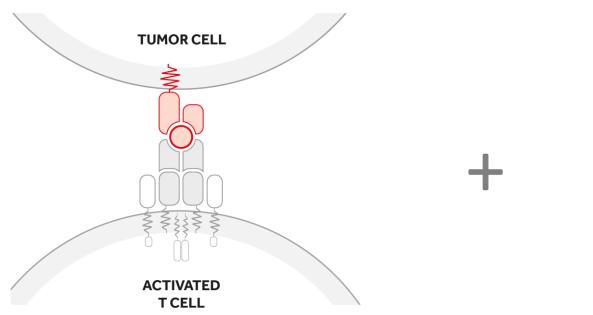




True Cancer Targets & Matching Right TCRs

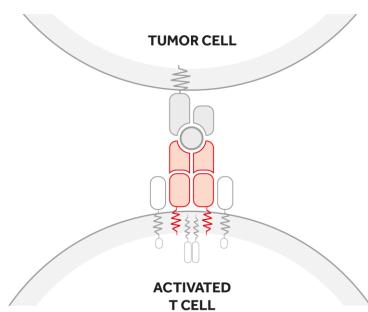


Goal to Maximize Anti-Tumor Activity and Minimize Safety Risks of TCR-based Immunotherapies





- are naturally presented on tumor tissues as identified by mass-spec
- are absent or presented at only low levels on normal tissues
- are presented at high copy numbers to trigger a pharmacological response



Right TCRs via XCEPTOR® technology platform

- recognize the target peptide with high affinity and specificity
- show selective killing of tumor cells
- are developed to be suitable for two different therapeutic modalities, Cell Therapies and TCR Bispecifics

Pool of 200 Prioritized Targets as Foundation for Future Value Generation

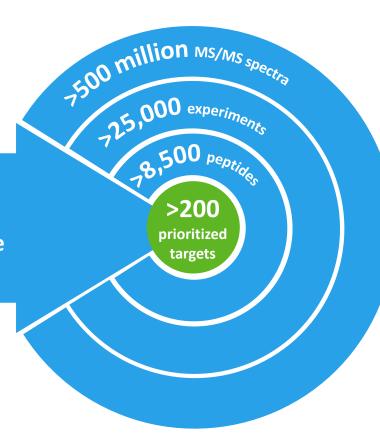


XPRESIDENT® Target Platform

pHLA Database

based on primary tissues

>2,500 cancer & normal tissues analyzed by Quantitative, Ultra-Sensitive Mass Spectrometry



200 Prioritized Targets

Grouped in 3 Target Classes:

- 1. Well known and characterized parent protein (20%) e.g. MAGE family cancer testis antigens
- 2. Unknown or poorly characterized parent protein (60%) e.g. stroma target COL6A3 exon 6
- 3. Crypto-targets/Neoantigens (20%)Novel target class which includes RNA-edited peptides& non-classical neoantigens

~50% of our prioritized targets are non-HLA-A*02 restricted, substantially broadening the potential patient reach

This large data set is leveraged by our bioinformatics & AI-platform XCUBE™ – "AI is where the data is "

Potential for Large Patient Populations across Multiple Solid Cancers



IMA203 / IMA402 PRAME

Uterine Carcinoma – 97% Uterine Carcinosarcoma – 100% Sarcoma Subtypes – up to 100% Cut. Melanoma – 95% Uveal Melanoma¹ – 89% Ovarian Carcinoma – 84% Squamous NSCLC – 68% TNBC - 63% Small Cell Lung Cancer – 45% Kidney Carcinoma – up to 40% Cholangiocarcinoma – 33% HNSCC – 27% Esophageal Carcinoma – 27% Breast Carcinoma – 26% Adeno NSCLC – 25% HCC - 18%Bladder Carcinoma – 18%

IMA401 MAGEA4/8

Squamous NSCLC – 52%
Sarcoma Subtypes – up to 60%
HNSCC – 36%
Bladder Carcinoma – 29%
Uterine Carcinosarcoma – 29%
Esophageal Carcinoma – 23%
Ovarian Carcinoma – 23%
Melanoma – 18%

IMA204 COL6A3 Exon 6

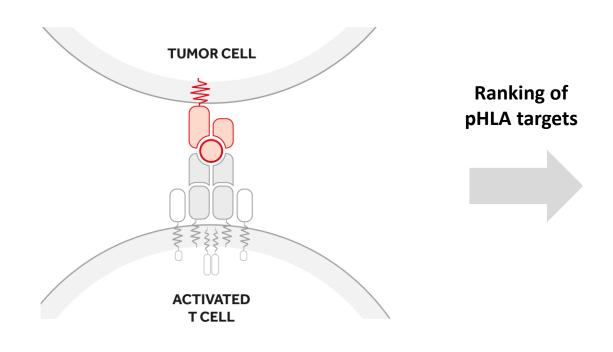
Pancreatic Carcinoma – 76%
Breast Carcinoma – 77%
Stomach Carcinoma – 67%
Sarcoma – 63%
Colorectal Carcinoma – 60%
Esophageal Carcinoma – 60%
Squamous NSCLC– 55%
Adeno NSCLC– 55%
HNSCC – 56%
Uterine Carcinosarcoma – 50%
Mesothelioma – 44%
Cholangiocarcinoma – 36%
Melanoma – 35%
Bladder Carcinoma – 34%
Ovarian Carcinoma – 31%

ACTengine® and TCER® targets demonstrate high prevalence in multiple solid cancers

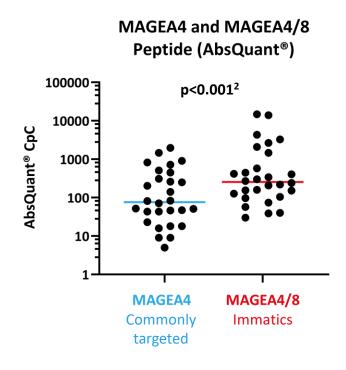
Immatics' Unique Capability – Identification of the most Relevant Target



Example of MAGEA4/8 Peptide Target



XPRESIDENT® quantitative information on target density¹ between peptides originating from the same source protein

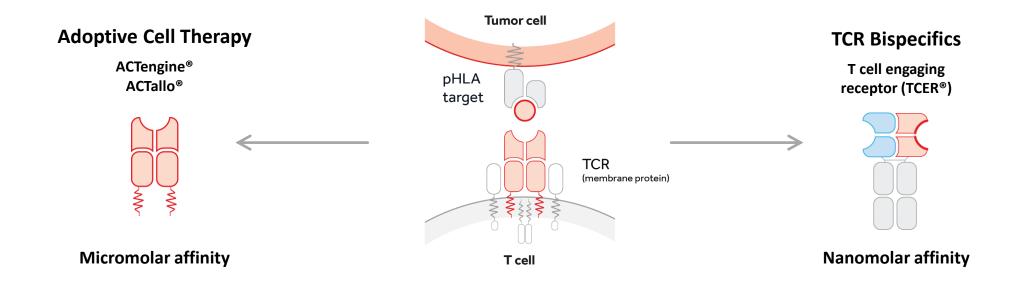


MAGEA4/8 target is presented at >5-fold higher target density¹ than a commonly targeted MAGEA4 target peptide

Development of the Right TCR – XCEPTOR® Technology



TCR Discovery and Engineering for ACT and TCR Bispecifics



- Fast, efficient and highly sensitive discovery of highly specific, natural TCRs
- Protein engineering capabilities to design and maturate TCRs with increased affinity while retaining specificity
- Early de-selection of cross-reactive TCRs by the unique interplay between Immatics' target and TCR discovery platforms

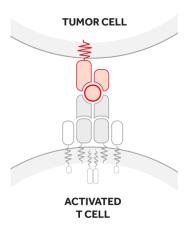
 XPRESIDENT® and XCEPTOR® during TCR discovery¹ and TCR maturation² (empowered by our bioinformatics & AI-platform XCUBE™)

Optimal Target Selection & TCR Specificity for Minimizing Safety Risks



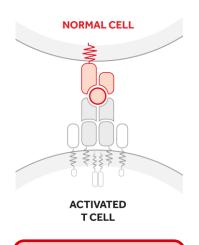
Unique Interplay between Technology Platforms Allows Early De-risking for Clinical Development

Target peptide presented on tumor cells



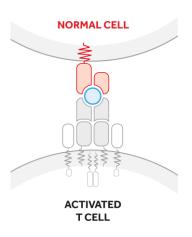
Selective killing of tumor cells

Target peptide presented on normal cells



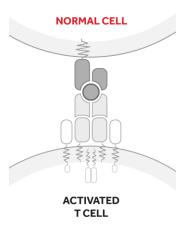
On-target (off-tumor) toxicity

Similar peptide presented on normal cells¹



Off-target toxicity

A different HLA is recognized on normal cells



Alloreactivity

XPRESIDENT®-guided screening for on- and off-target toxicities of TCRs based on the extensive database of peptides presented on normal tissues

"Al Is Where the Data Is®"



Bioinformatics and AI-Platform XCUBE™

Data Engineering XPRESIDENT®/ **THERAPEUTIC XCEPTOR® DATA** KNOWLEDGE **Data Data Processing** Science

Targets

Discovery Selection Validation

Lead Molecules



Discovery Characterization

Therapies

Cell therapies

Bispecifics CDx

Data Processing Processing of mass-spec & next-gen sequencing data **Data Engineering** Development of data warehouses & user interfaces

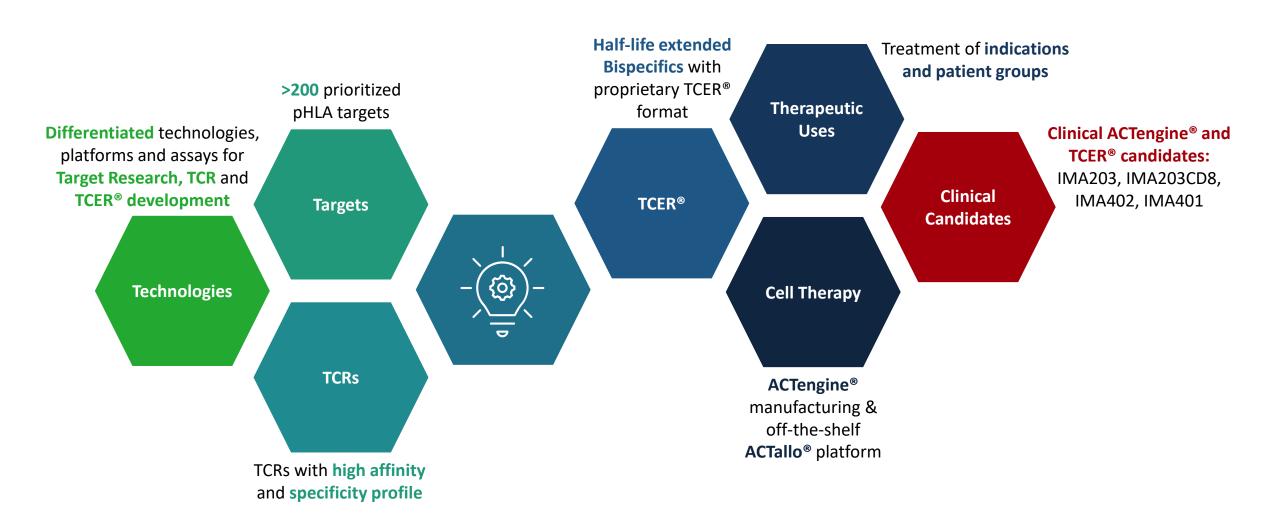
Data Science 3 Development of statistical & machine learning models

Technology

Immatics' Robust Intellectual Property Portfolio



Protection Strategy of Key Assets in Major Markets and Beyond







ACTengine® IMA204 – TCR-T Targeting COL6A3 Exon 6

ACTengine® IMA204 First-in-Class TCR-T Targeting Tumor Stroma



Key Features

TARGET

HLA-A*02-presented peptide derived from **COL6A3 exon 6**

Naturally and specifically presented on tumors at high target density¹: **100-700 copies/cell**

Novel tumor stroma target identified and validated by XPRESIDENT® quant. mass spectrometry platform

TCR

High-affinity, specific TCR targeting COL6A3 exon 6

Affinity-maturated, CD8-independent TCR

High functional avidity²: ~0.01ng/ml

Identified and characterized by XCEPTOR® TCR discovery and engineering platform

PRECLINICAL DATA

CD8-independent, nextgeneration TCR engages both, CD8 and CD4 T cells

In vitro anti-tumor activity against target-positive cell lines in CD8 and CD4 T cells

Complete tumor eradication in in vivo mouse models

PATIENT POPULATION³

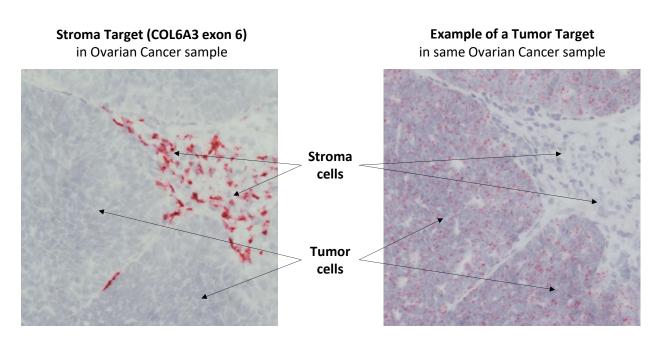
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Breast Carcinoma – 77%
Stomach Carcinoma – 67%
Sarcoma – 63%
Colorectal Carcinoma – 60%
Esophageal Carcinoma – 60%
Squamous NSCLC– 55%
Adeno NSCLC– 57%
HNSCC – 56%
Uterine Carcinosarcoma – 50%
Mesothelioma – 44%
Cholangiocarcinoma – 36%
Melanoma – 35%
Bladder Carcinoma – 34%
Ovarian Carcinoma – 31%

IMA204 provides a promising therapeutic opportunity for a broad patient population as monotherapy or in combination with TCR-T cells directed against tumor targets

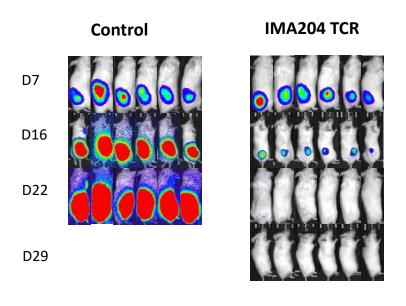
ACTengine® IMA204 – High Affinity, CD8-independent TCR



Complete Tumor Eradication in vitro & in vivo1 by Affinity-enhanced IMA204 TCR



COL6A3 exon 6 prevalently expressed at high target density in tumor stroma across many solid cancers



CD8-independent TCR leads to tumor eradication in all mice treated

Affinity maturated CD8-independent, next-generation TCR engages both CD4 and CD8 T cells without the need of CD8 co-transduction

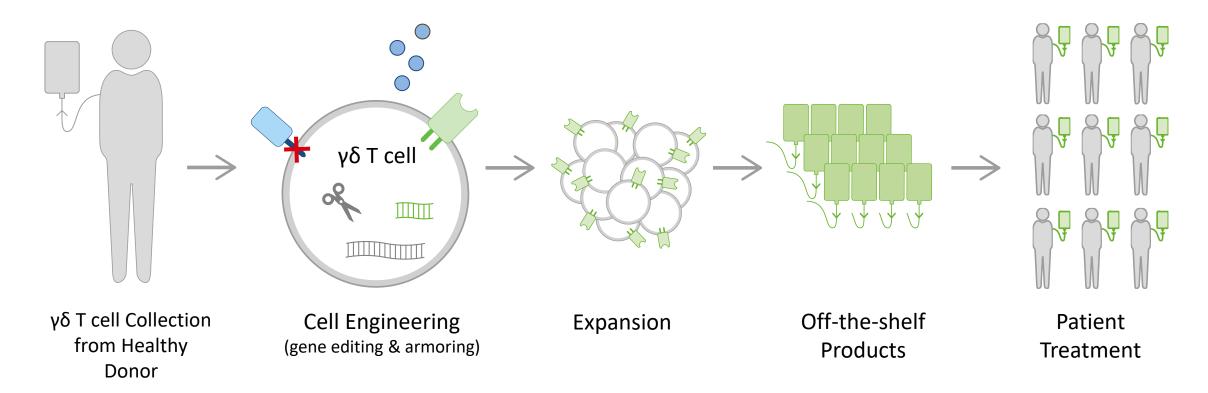




ACTallo® – Our Next-generation Off-the-shelf TCR-T

ACTallo® – Immatics' Allogeneic Cell Therapy Approach





- Off-the-shelf cell therapy, no need for personalized manufacturing → reduced logistics and time to application
- **Potential for hundreds of doses** from one single donor leukapheresis → lower cost of goods
- Use of healthy donor material provides standardized quality and quantity of starting material
- Strategic collaborations combining Immatics' proprietary ACTallo® platform with Bristol Myers Squibb's next-gen technologies and Editas Medicine's CRISPR gene editing technology to develop next-gen allogeneic γδ TCR-T/CAR-T programs

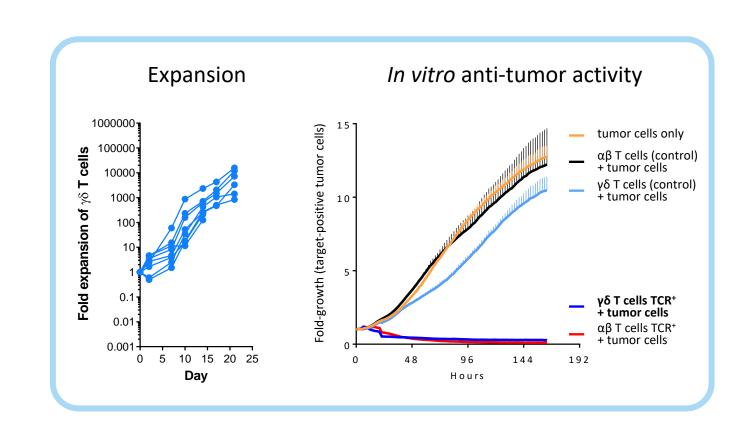
Why γδ T cells?



γδ T cells Are Well Suited for an Off-the-shelf Cell Therapy Approach

γδ T cells

- ✓ are abundant in the peripheral blood
- ✓ show intrinsic anti-tumor activity
- naturally infiltrate solid tumors & correlate with favorable prognosis
- are HLA-independent, thus do not cause graft-vs-host disease in allogeneic setting
- can be expanded to high numbers in a cGMP-compatible manner
- \checkmark can be effectively redirected using αβ TCR or CAR constructs







Corporate Information

Experienced Global Leadership Team Across Europe and the US





Harpreet Singh
Chief Executive Officer
Co-Founder
>20 yrs biotech experience



Arnd Christ
Chief Financial Officer
>20 yrs biotech experience
(InflaRx, Medigene, NovImmune,
Probiodrug)



Carsten Reinhardt
Chief Development Officer
>20 yrs pharma & biotech experience
(Micromet, Roche, Fresenius)



Cedrik Britten
Chief Medical Officer
>15 yrs pharma & biotech experience
(GSK, BioNTech)



Rainer Kramer

Chief Business Officer
>25 yrs pharma & biotech experience
(Amgen, MorphoSys, Jerini,
Shire, Signature Dx)



Steffen Walter
Chief Operating Officer
Co-Founder Immatics US
>15 yrs biotech experience



Toni Weinschenk
Chief Innovation Officer
Co-Founder
>15 yrs biotech experience



Edward Sturchio

General Counsel
>15 yrs pharma & biotech experience
(Abeona Therapeutics, AAA,
Novartis, Merck, Schering)



Jordan Silverstein

Head of Strategy
>10 yrs biotech experience
(InflaRx, AAA)

Corporate 86

Strong, Focused and Highly Integrated Trans-Atlantic Organization





Target & TCR discovery and TCR Bispecifics development



Munich, Germany ~85 FTEs

Various operating functions

Houston, Texas ~205 FTEs

Cell therapy development & manufacturing



Corporate FTEs as of June 30, 2024 87

Delivering

the Power of T cells to Cancer Patients

Appendix

www.immatics.com









IMA402 Phase 1a Patient Population Flow Chart



