

DELIVERING THE POWER
OF T CELLS TO
CANCER PATIENTS

Unlocking Immunotherapies for Solid Cancer Patients

Immatics Corporate Presentation, November 2021

Forward-Looking Statements



This presentation (“Presentation”) is provided by Immatics N.V. (“Immatics” or the “Company”) for informational purposes only. The information contained herein does not purport to be all-inclusive and Immatics nor any of its affiliates nor any of its or their control persons, officers, directors, employees or representatives makes any representation or warranty, express or implied, as to the accuracy, completeness or reliability of the information contained in this Presentation. You should consult your own counsel and tax and financial advisors as to legal and related matters concerning the matters described herein, and, by accepting this presentation, you confirm that you are not relying upon the information contained herein to make any decision.

Forward-Looking Statements. Certain statements in this presentation may be considered forward-looking statements. Forward-looking statements generally relate to future events or the Company’s future financial or operating performance. For example, statements concerning timing of data read-outs for product candidates, the clinical trial application for IMA204, IMA301, IMA401, the Company’s focus on partnerships to advance its strategy, projections of future cash on hand and other metrics are forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as “may”, “should”, “expect”, “intend”, “will”, “estimate”, “anticipate”, “believe”, “predict”, “potential” or “continue”, or the negatives of these terms or variations of them or similar terminology. Such forward-looking statements are subject to risks, uncertainties, and other factors which could cause actual results to differ materially from those expressed or implied by such forward looking statements. These forward-looking statements are based upon estimates and assumptions that, while considered reasonable Immatics and its management, are inherently uncertain. New risks and uncertainties may emerge from time to time, and it is not possible to predict all risks and uncertainties. Factors that may cause actual results to differ materially from current expectations include, but are not limited to, various factors beyond management’s control including general economic conditions and other risks, uncertainties and factors set forth in the Company’s filings with the Securities and Exchange Commission (SEC). Nothing in this presentation should be regarded as a representation by any person that the forward-looking statements set forth herein will be achieved or that any of the contemplated results of such forward-looking statements will be achieved. You should not place undue reliance on forward-looking statements, which speak only as of the date they are made. Company undertakes no duty to update these forward-looking statements.

No Offer or Solicitation. This communication is for informational purposes only and does not constitute, or form a part of, an offer to sell or the solicitation of an offer to sell or an offer to buy or the solicitation of an offer to buy any securities, and there shall be no sale of securities, in any jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such jurisdiction. No offer of securities shall be made except by means of a prospectus meeting the requirements of Section 10 of the Securities Act of 1933, as amended, and otherwise in accordance with applicable law.

Certain information contained in this Presentation relates to or is based on studies, publications, surveys and the Company’s own internal estimates and research. In addition, all of the market data included in this presentation involves a number of assumptions and limitations, and there can be no guarantee as to the accuracy or reliability of such assumptions. Finally, while the Company believes its internal research is reliable, such research has not been verified by any independent source. Clinical study results and associated biomarker studies presented within this presentation are by definition prior to completion of the clinical trial and a clinical study report and, are therefore, preliminary in nature and subject to further quality checks including customary source data verification. This meeting and any information communicated at this meeting are strictly confidential and should not be discussed outside your organization.

Unlocking Immunotherapies for Solid Cancer Patients



Building a leading TCR Therapeutics Company with a Pipeline in Cell Therapies and Bispecifics



Highly Differentiated Technologies to Identify True Cancer Targets and the Right TCRs



Strategic Collaborations with World-leading Industry Players

Limitations of Current Immunotherapies in Solid Cancer Patients

... Driven by a Lack of Known Cancer-specific Targets

Most cancer patients do not benefit from current immuno-oncology approaches



















Checkpoint inhibitors
mainly effective in tumors with high mutational burden
minority of all cancers¹

CAR-T
mainly effective in hematological malignancies
minority of all cancers²

Solid tumors
limited established treatments & high medical need
majority of all cancers

We are unlocking immunotherapies for solid cancer patients with high unmet medical need by accessing intracellular cancer targets with TCR-based therapeutics

Immatics Pipeline

Modality	Product Candidate	Status	Preclinical	Phase 1a ¹	Phase 1b ¹	Phase 2/3
ACTengine® Autologous ACT	IMA201 (MAGEA4/8)	Proprietary				
	IMA202 (MAGEA1)	Proprietary				
	IMA203 (PRAME)	Proprietary				
	IMA203 (PRAME) + Checkpoint Inhibitor	Proprietary				
	IMA203CD8 (PRAME)	Proprietary				
	IMA204 (COL6A3)	Proprietary				
Autologous ACT	3 ACT programs (Undisclosed)	 Bristol Myers Squibb™				
	2 ACT programs (Undisclosed)					
Allogeneic ACT	ACTallo® IMA30x (Undisclosed)	Proprietary				
TCER® Bispecifics	IMA401 (MAGEA4/8)	Proprietary				
	IMA402 (PRAME)	Proprietary				
	IMA40x (Undisclosed)	Proprietary				
Bispecifics	3 Bispecific programs (Undisclosed)	 Genmab				

Immatics Programs Are Relevant for Multiple Solid Cancer Indications

	IMA201 / IMA401	IMA202	IMA203 / IMA402	IMA204
	MAGEA4/8	MAGEA1	PRAME	COL6A3 exon 6
Selected solid cancer indications with significant target prevalence¹	Sarcoma Subtypes – up to 80% Squamous NSCLC – 50% HNSCC – 35% Bladder Carcinoma – 30% Esophageal Carcinoma – 25% Uterine Carcinosarcoma – 25% Ovarian Carcinoma – 20% Melanoma – 20%	HCC– 40% Squamous NSCLC – 35% Sarcoma Subtypes – up to 30% Melanoma – 30% Bladder Carcinoma – 20% Esophageal Carcinoma – 20%	Uterine Carcinoma – 100% Sarcoma Subtypes – up to 100% Melanoma – 95% Uveal Melanoma – 80% ² Ovarian Carcinoma – 80% Squamous NSCLC – 65% Kidney Carcinoma – up to 45% Cholangiocarcinoma – 35% Adeno NSCLC – 25% Breast Carcinoma– 25% HNSCC – 25% Esophageal Carcinoma – 20% HCC– 20% Bladder Carcinoma – 20%	Pancreatic Carcinoma – 80% Breast Carcinoma – 75% Stomach Carcinoma – 65% Sarcoma – 65% Esophageal Carcinoma – 60% Squamous NSCLC– 55% Adeno NSCLC– 55% HNSCC – 55% Uterine Carcinosarcoma – 55% Colorectal Carcinoma – 45% Mesothelioma – 45% Cholangiocarcinoma – 40% Ovarian Carcinoma – 40% Melanoma – 35% Bladder Carcinoma – 35%

IMA200 & IMA400 programs demonstrate relevant expression in multiple solid cancers

¹ Solid cancer indications with 20% or more target expression, Target prevalence for selected cancer indications based on mRNA expression (TCGA and Immatics inhouse data);

² Based on metastatic uveal melanoma patients screened in IMA203 study (N=12)

ACTengine® Programs – Key Features

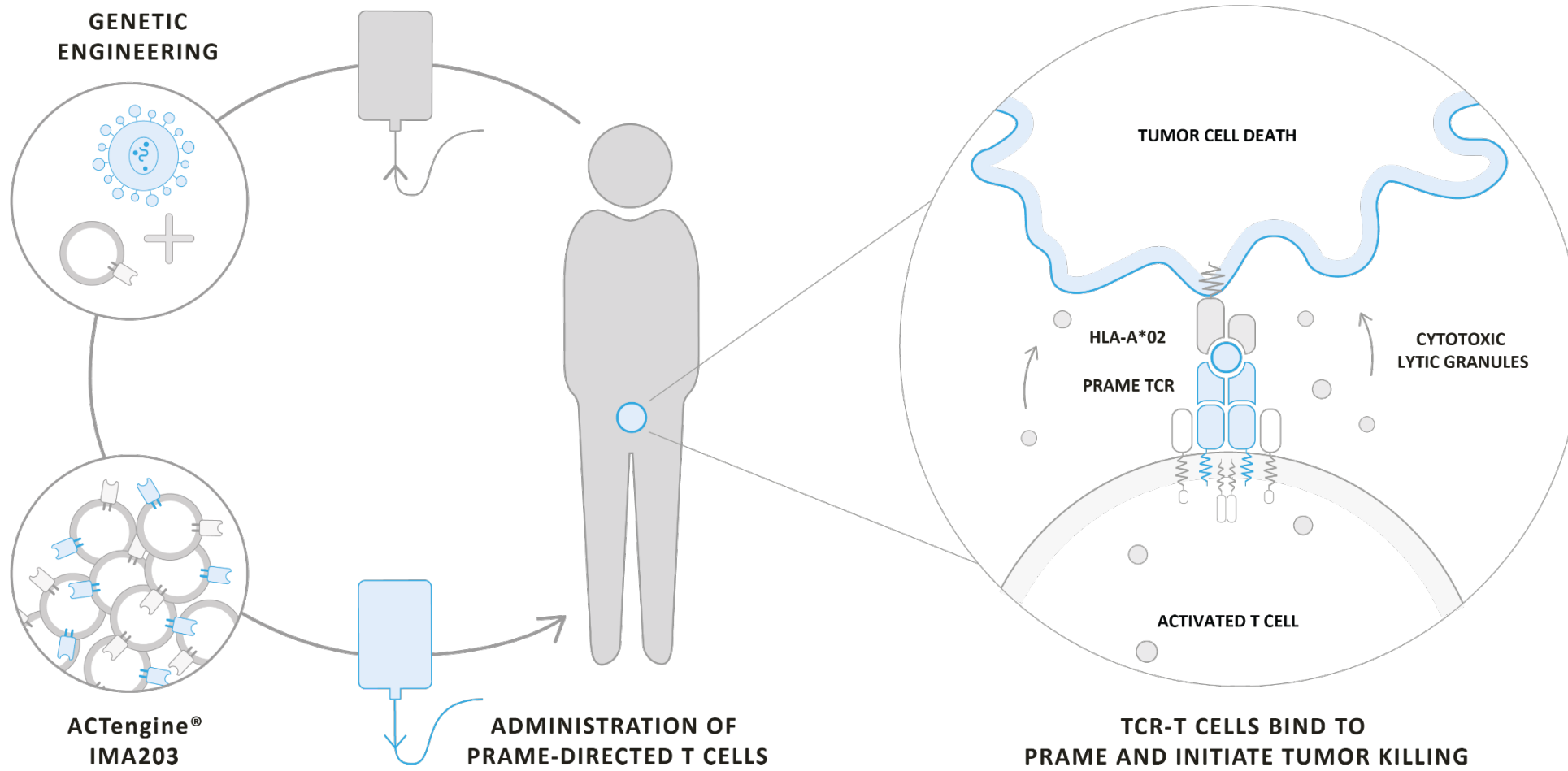
	IMA201	IMA202	IMA203	IMA204
Cancer Target Peptide	<p>HLA-A*02-presented peptide derived from</p> <p>MAGEA4/8 MAGEA1 PRAME COL6A3 exon 6</p> <p>shown to be naturally and specifically presented on native tumor tissues at differentiated high peptide target density¹</p> <p>100-1,000 copies/cell 50-900 copies/cell 100-1,000 copies/cell 100-700 copies/cell</p>			
T cell Receptor (TCR)	<p>High-affinity specific TCRs with high functional avidity²</p> <p>Natural TCR ~10 ng/ml Natural TCR ~15 ng/ml Pairing-enhanced TCR ~5 ng/ml Affinity-maturated, CD8-independent TCR ~0.01ng/ml</p>			
T cell Product	<p>Autologous T cells gene-engineered with lentiviral vector expressing TCR and applying proprietary short-term manufacturing process designed to achieve better T cell engraftment and persistence</p> <p>7-10 days 7-10 days 7 days 7 days</p>			



ACTengine® IMA203 – TCR-T to PRAME

ACTengine® IMA203 to PRAME – Mechanism of Action

Immatics' Leading TCR-T Approach



ACTengine® IMA203 – Patient Flow

Screening & Manufacturing Phase

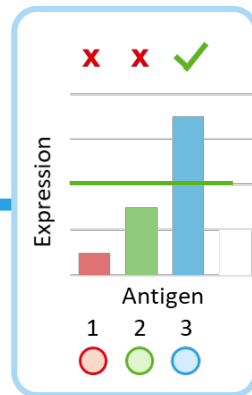
Treatment & Observation Phase

Long Term Follow-up

Safety and efficacy monitoring for 12 months

HLA-A*02 Testing

Blood sample;
Central lab



Target Profiling

Fresh Tumor Biopsy;
IMADetect®

Leuka- pheresis

ACTengine® Manufacturing by Immatics

IMA201 IMA202 IMA203

Infusion of ACTengine® T cell Product

Low dose IL-2

1m IU daily days 1-5 and
twice daily days 6-10*

Lymphodepletion

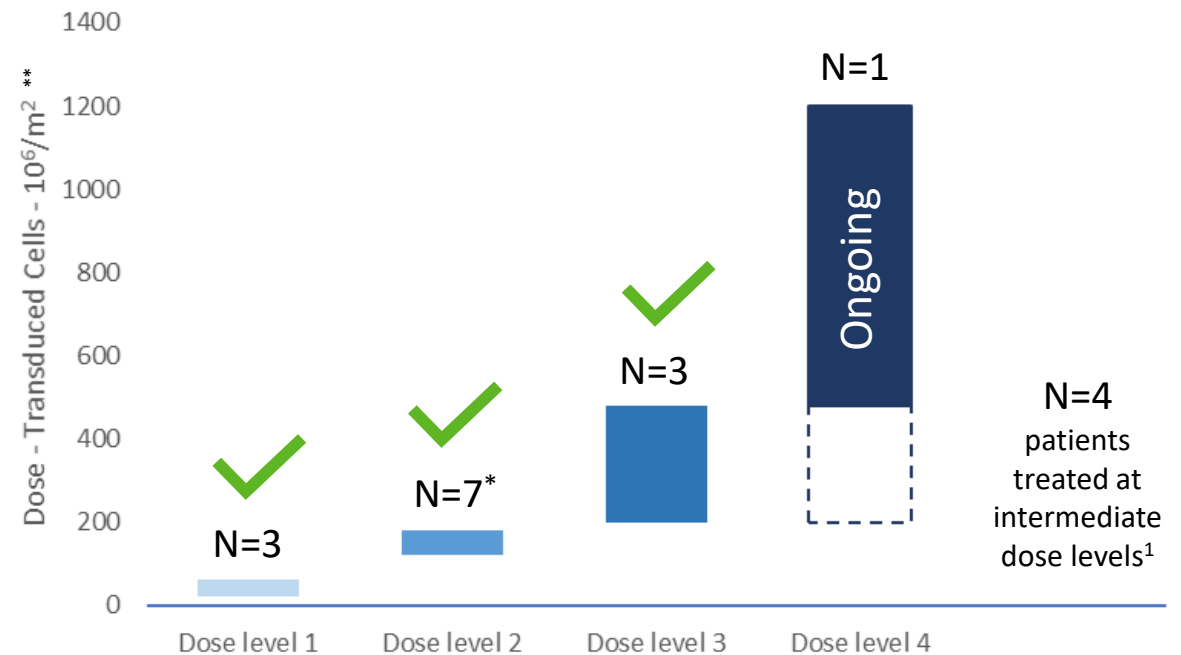
30 mg/m² Fludarabine¹ and
500 mg/m² Cyclophosphamide
for 4 days

ACTengine® IMA203 – Key Objectives & Trial Design

Key Study Objectives

- **Primary: Safety**
Investigation of Adverse Events,
Determination of a recommended Phase 2 dose
- **Secondary: Biological and Clinical Activity**
T cell engraftment and persistence
Objective responses as per RECIST1.1
Duration of response
- **Exploratory**
Tumor Infiltration

Trial Design & Recruitment Status



**18 patients¹ infused with PRAME-directed T cells at 5 clinical sites –
Highest Dose Level 4 has commenced**

Data cut-off – 05-Oct-2021

ACTengine® IMA203 – Safety Profile

Manageable & Transient Treatment-emergent Adverse Events – No ≥ Grade 3 CRS or ICANS

TEAEs by maximum severity (N=19)¹

Adverse event	All grades		≥ Grade 3		Adverse event	All grades		≥ Grade 3	
	No.	%	No.	%		No.	%	No.	%
Patients with any adverse event	19	100.0	19	100.0	table continued...				
Adverse Events of Special interest					Cardiac or vascular disorders				
Cytokine release syndrome	17	89.5	0	0.0	Hypertension	3	15.8	2	10.5
ICANS ²	4	21.1	0	0.0	Atrial fibrillation	2	10.5	1 ⁴	5.3
Blood and lymphatic system disorders					General disorders and administration site conditions				
Neutropenia*	16	84.2	15	78.9	Fatigue	7	36.8	1	5.3
Anaemia	16	84.2	9	47.4	Pyrexia	5	26.3	0	0.0
Thrombocytopenia	15	78.9	7	36.8	Oedema peripheral	3	15.8	0	0.0
Lymphopenia*	14	73.7	14	73.7	Gastrointestinal disorders				
Leukopenia*	12	63.2	11	57.9	Nausea	12	63.2	0	0.0
Cytopenia	1	5.3	1	5.3	Vomiting	7	36.8	0	0.0
Infections and infestations					Diarrhoea	7	36.8	0	0.0
Enterococcal infection	1	5.3	1	5.3	Constipation	6	31.6	0	0.0
COVID-19	1	5.3	1	5.3	Investigations				
Appendicitis	1	5.3	1	5.3	Aspartate aminotransferase increased	5	26.3	0	0.0
Sepsis ³	1	5.3	1	5.3	Alanine aminotransferase increased	4	21.1	0	0.0
Respiratory, thoracic and mediastinal disorders					Blood creatinine increased	4	21.1	0	0.0
Hypoxia	2	10.5	1	5.3	Other				
Pleural effusion	2	10.5	1	5.3	Rash	5	26.3	0	0.0
Bronchial obstruction	1	5.3	1	5.3	Myalgia	4	21.1	0	0.0
Metabolism and nutrition disorders					Arthralgia	3	15.8	0	0.0
Hyponatraemia	7	36.8	1	5.3	Alopecia	3	15.8	0	0.0
Hypokalaemia	5	26.3	1	5.3	Rash maculo-papular	2	10.5	1	5.3
Decreased appetite	3	15.8	0	0.0	Orchitis	1	5.3	1	5.3
					Contrast media allergy	1	5.3	1	5.3

CRS/ICANS:
No ≥ Grade 3 CRS
or ICANS
observed so far

Most Adverse
Events were
associated with
lymphodepletion

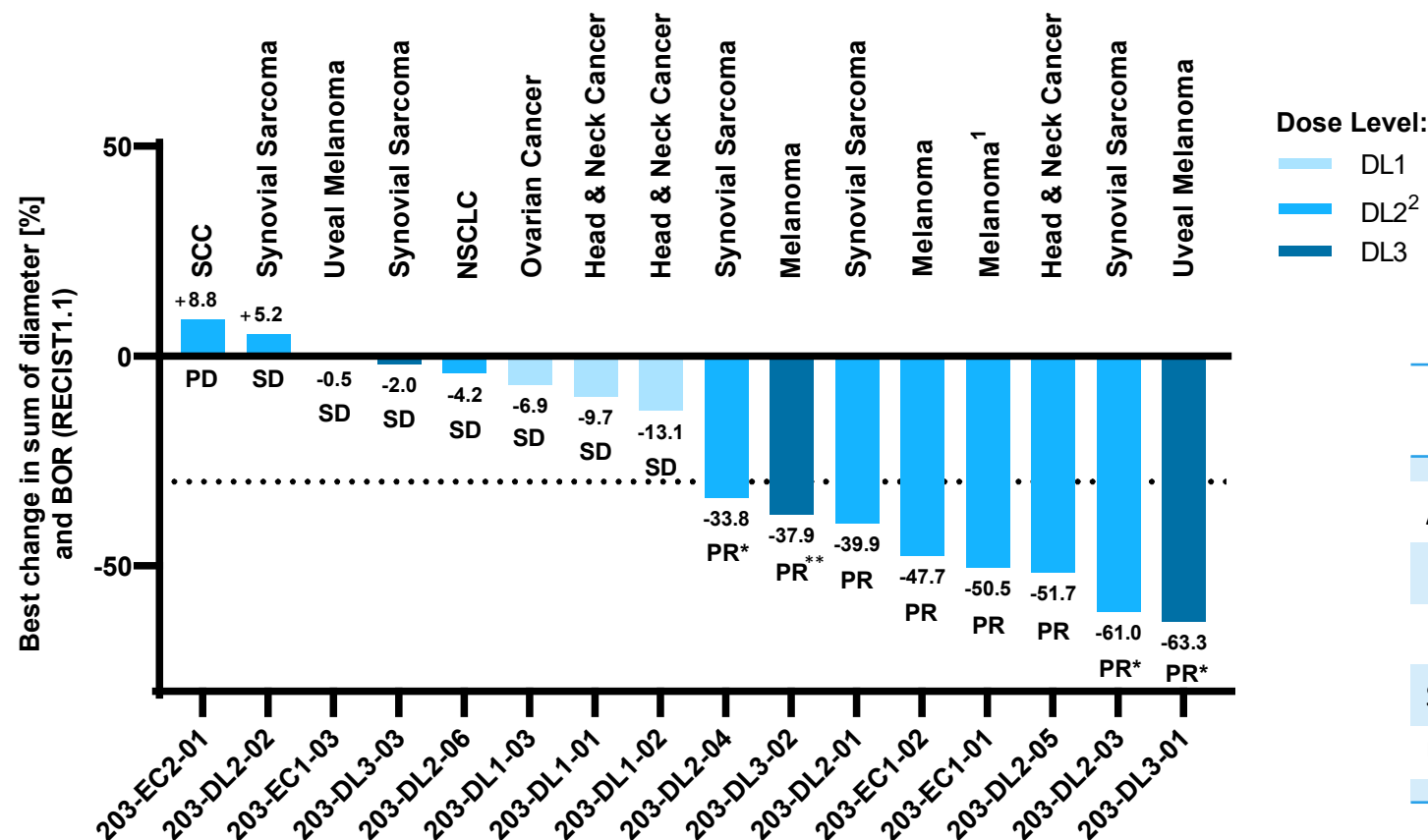
DLT:
Transient, Grade 3
atrial fibrillation
Onset on day 5 post
infusion that
resolved within 48h
DLT triggered
expansion of DL2

¹ All treatment-emergent adverse events (TEAEs) with grade 1-2 occurring in at least 3 patients (incidence ≥15.8%) and additionally all events with grade 3-5 regardless of relatedness to study treatment are presented. Data source: clinical database. 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 (CTCAE), version 5.0. Grades for Cytokine release syndrome and ICANS were determined according to CARTOX criteria (Neelapu *et al.*, 2018). Patients are counted only once per adverse event and severity classification; ² ICANS: Immune effector cell-associated neurotoxicity syndrome; ³ Patient died from sepsis of unknown origin and did not receive IMA203 T cells; ⁴ DLT: Dose limiting toxicity; *100% of patients experienced transient cytopenias ≥ Grade 3 (CTCAE v5.0)

ACTengine® IMA203 – Change in Target Lesions

Objective Responses across Multiple Tumor Types at Doses below 1 billion Transduced Cells

Best Overall Response (RECIST1.1)



Preliminary Objective Response Rates (RECIST1.1, confirmed and unconfirmed)

	All doses	Dosed above DL1
All comers	8/16 (50%)	8/13 (62%)
Melanoma	3/3 (100%)	3/3 (100%)
Head & Neck Cancer	1/3 (33%)	1/1 (100%)
Synovial Sarcoma	3/5 (60%)	3/5 (60%)
Uveal Melanoma	1/2 (50%)	1/2 (50%)

Data cut-off – 05-Oct-2021

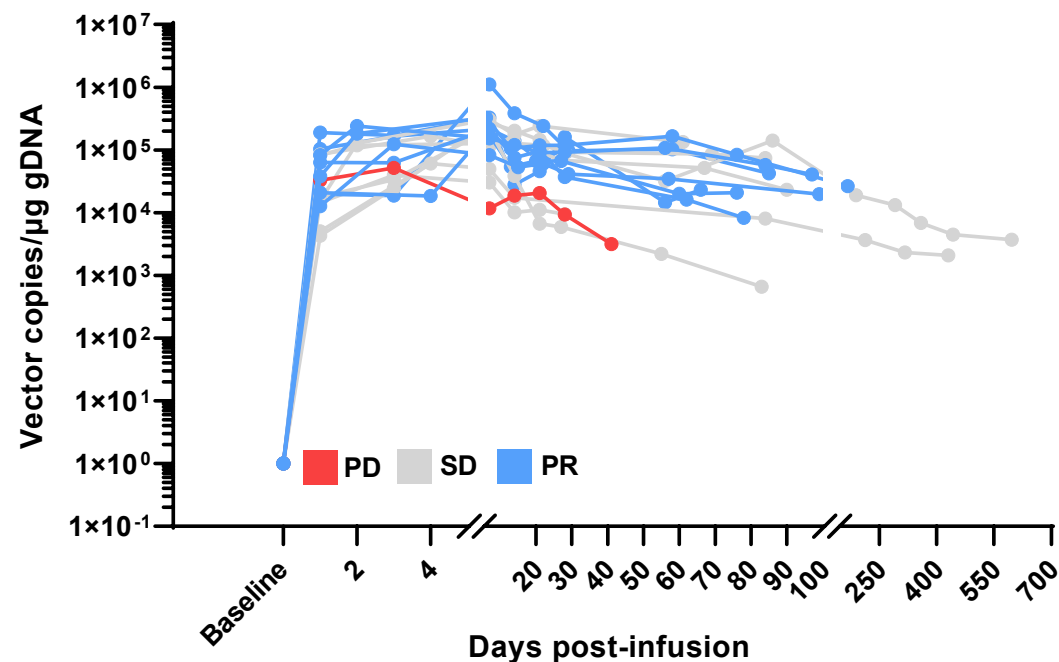
Patient ID	Indication	Dose	Week															Month																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	//	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
203-DL1-01	Head & Neck Cancer	DL1	[Blue bar]						[Gray bar with red X at week 9]																										
203-DL1-02	Head & Neck Cancer	DL1	[Blue bar]						[Gray bar with red X at week 10]																										
203-DL1-03	Ovarian Cancer	DL1	[Blue bar]						[Gray bar with red X at week 13]												[Blue bar]														
203-EC1-01	Melanoma	EC1	[Blue bar]						[Gray bar with red X at week 11]												[Blue bar]														
203-EC1-02	Melanoma	EC1	[Blue bar]						[Gray bar with red X at week 10]												[Blue bar]														
203-EC1-03	Uveal Melanoma	EC1	[Blue bar]						[Gray bar with red X at week 12]												[Blue bar]														
203-DL2-01	Synovial Sarcoma	DL2	[Blue bar]						[Gray bar with red X at week 11]																										
203-DL2-02	Synovial Sarcoma	DL2	[Blue bar]						[Gray bar with red X at week 11]																										
203-DL2-03	Synovial Sarcoma	DL2	[Blue bar]						[Gray bar with red X at week 16]																										
203-DL2-04	Synovial Sarcoma	DL2	[Blue bar]						[Blue bar]																										
203-DL2-05	Head & Neck Cancer	DL2	[Blue bar]						[Gray bar with red X at week 12]												[Blue bar]														
203-DL2-06	NSCLC	DL2	[Blue bar]						[Gray bar with red X at week 11]												[Blue bar]														
203-EC2-01	SCC	EC2	[Blue bar]						[Gray bar with red X at week 6]												[Blue bar]														
203-DL3-01	Uveal Melanoma	DL3	[Blue bar]						[Blue bar]																										
203-DL3-02	Melanoma	DL3	[Blue bar]						[Blue bar]																										
203-DL3-03	Synovial Sarcoma	DL3	[Blue bar]						[Blue bar]																										

Data cut-off – 05-Oct-2021

ACTengine® IMA203 – Engraftment, Persistence & Tumor Infiltration

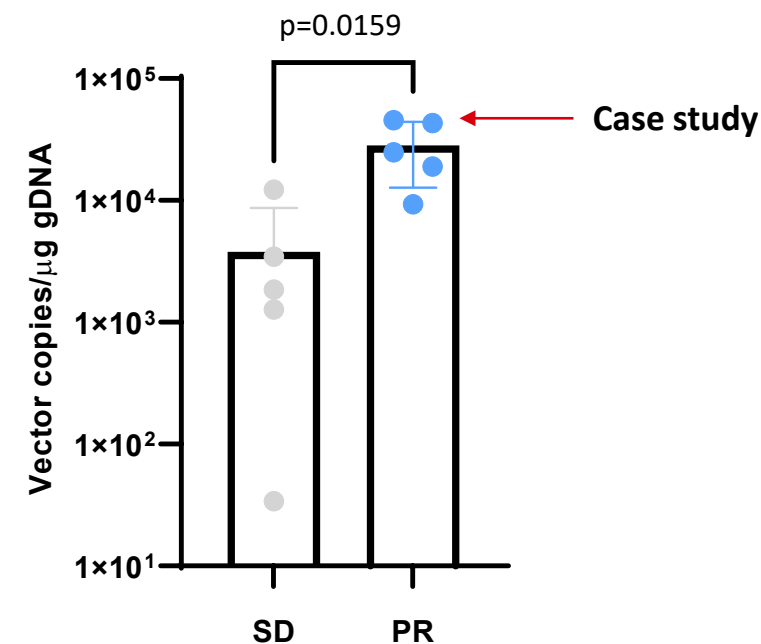
Clinical Responses Consistent with Biological Data

T cell Engraftment & Persistence



High T cell engraftment and persistence with trend for association of peak vector copies with clinical response¹

Tumor Infiltration post Infusion²

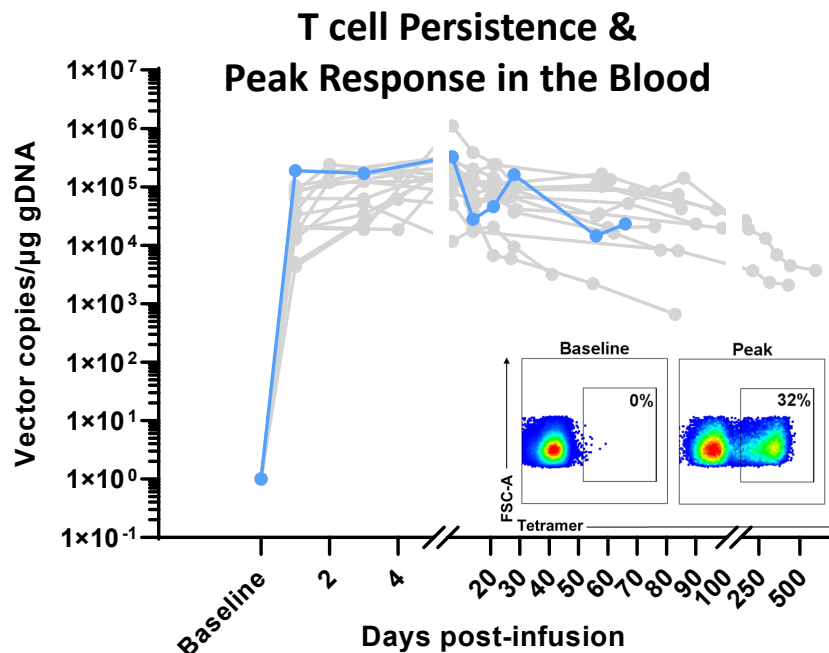


High T cell infiltration observed through serial biopsies associated with clinical response³

Data cut-off – 05-Oct-2021

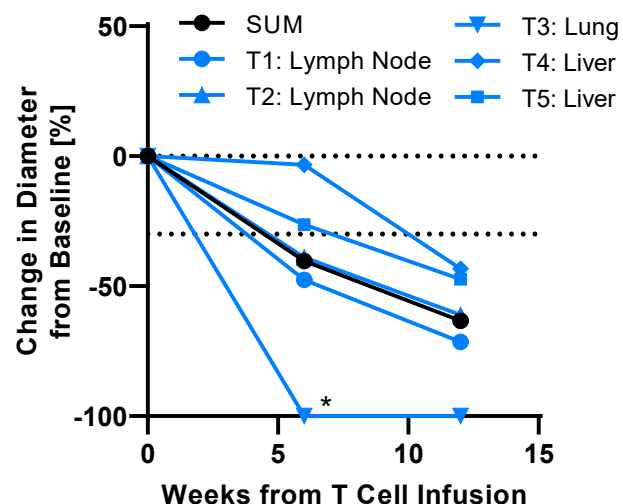
ACTengine® IMA203 – Case Study Patient IMA203-DL3-01

Confirmed Partial Response with Deepening Tumor Regression in Multiple Lesions

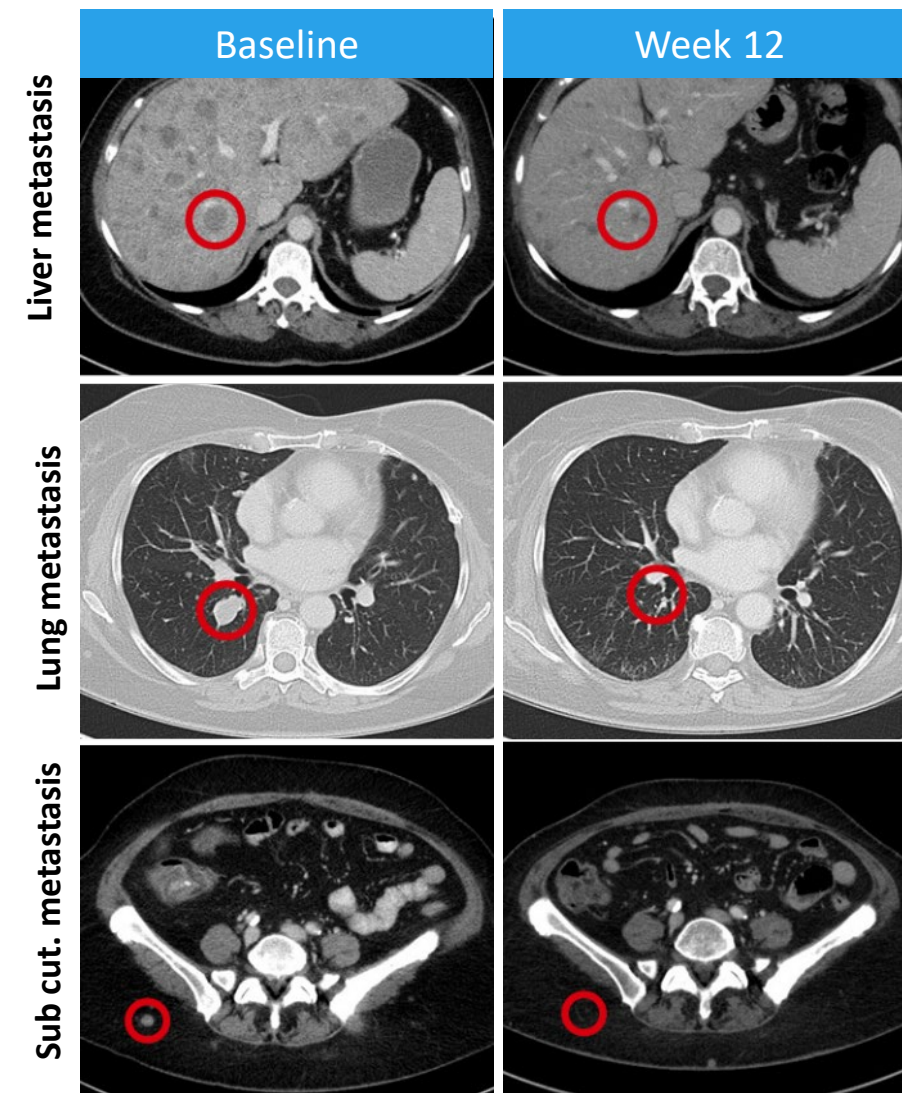


- 62-year-old female; metastatic uveal melanoma
- High tumor burden in multiple organs
- Infused at refractory disease after failing 4 prior lines of therapy including 2 lines of CPI¹
- Patient received total dose of 0.59 billion transduced T cells following lymphodepletion

Change in Target Lesions



- T cell persistence until end of observation & detection in the tumor
- All lesions decreased at week 6 - 40% decrease in target lesions response deepened at week 12 to 63% decrease
- Best Response (RECIST1.1): PR (confirmed & ongoing)



ACTengine® IMA203 PRAME – Phase 1a Dose Escalation Interim Update

Preliminary Findings after Completion of Dose Level 3



Objective responses observed across multiple tumor types
at dose levels below 1 billion T cells originally presumed to be subtherapeutic

SAFETY

- 3** Dose levels completed, all below 1 bn cells
- 0** Additional DLTs¹
- 0** Grade ≥3 CRS or ICANS²
- 4th** Dose level (target dose) commenced, first DL >1 bn cells

CLINICAL ACTIVITY

- 50%** ORR³ across all doses and multiple solid cancers (8/16 patients)
- 62%** ORR³ at DL2* & DL3 (8/13 patients) – all still dosed below 1 bn cells

BIOLOGICAL ACTIVITY

- Blood** High T cell engraftment and persistence
- Tumor** High T cell infiltration associated with clinical response

Data cut-off – 05-Oct-2021



Comprehensive Strategy to Target PRAME

Immatics' Proprietary PRAME Peptide-HLA/TCR Pair

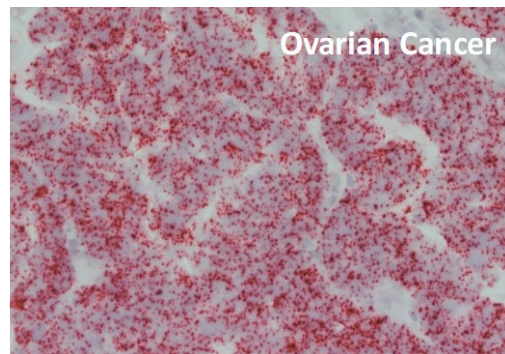
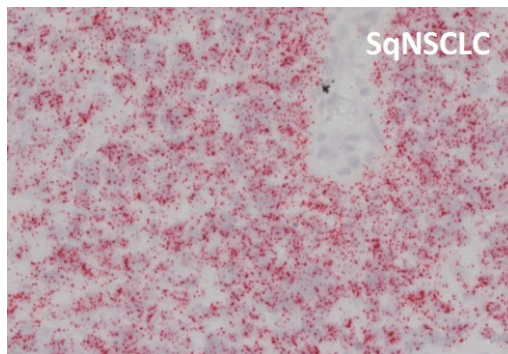
Broadly Expressed Target on Multiple Solid Cancers Combined with Highly Specific TCR

Peptide Target PRAME:

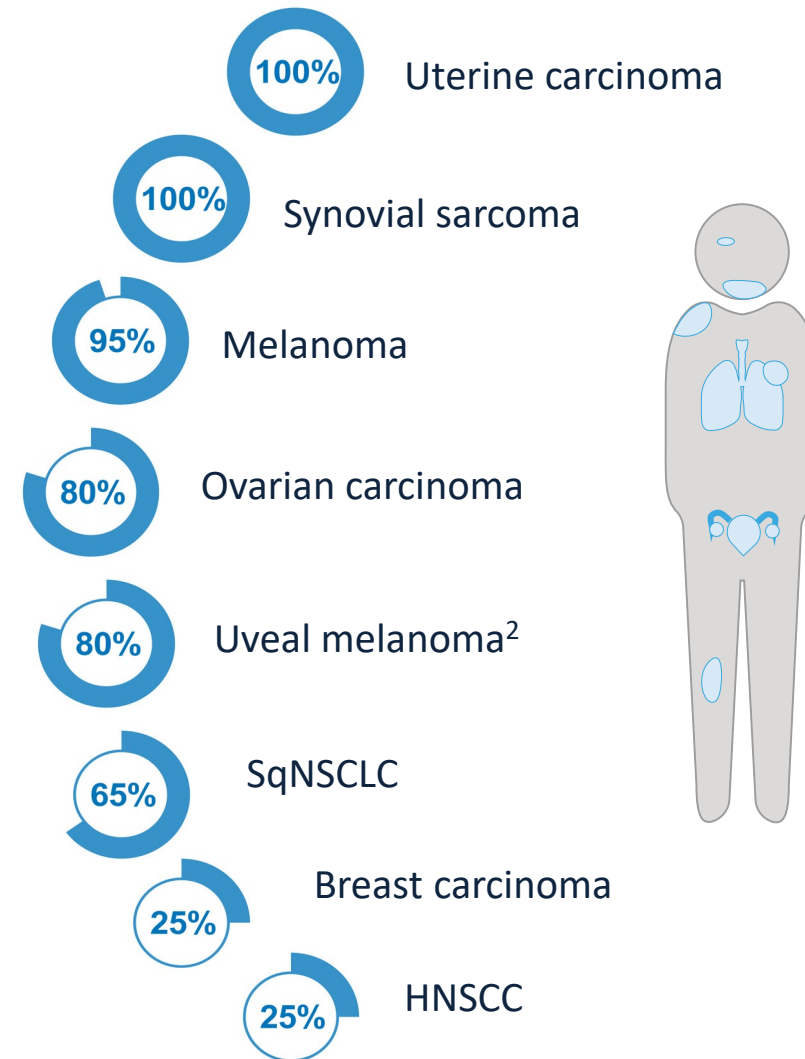
- HLA-A*02-restricted peptide identified by XPRESIDENT® quant. mass spec
- Naturally and specifically presented at high levels (100-1000 copies/cell)
- Homogenously expressed at high prevalence across multiple solid tumors¹

PRAME T cell Receptor (TCR):

- Engineered to avoid mispairing
- Selected for high specificity guided by XPRESIDENT®
- High functional avidity: EC50 5ng/ml



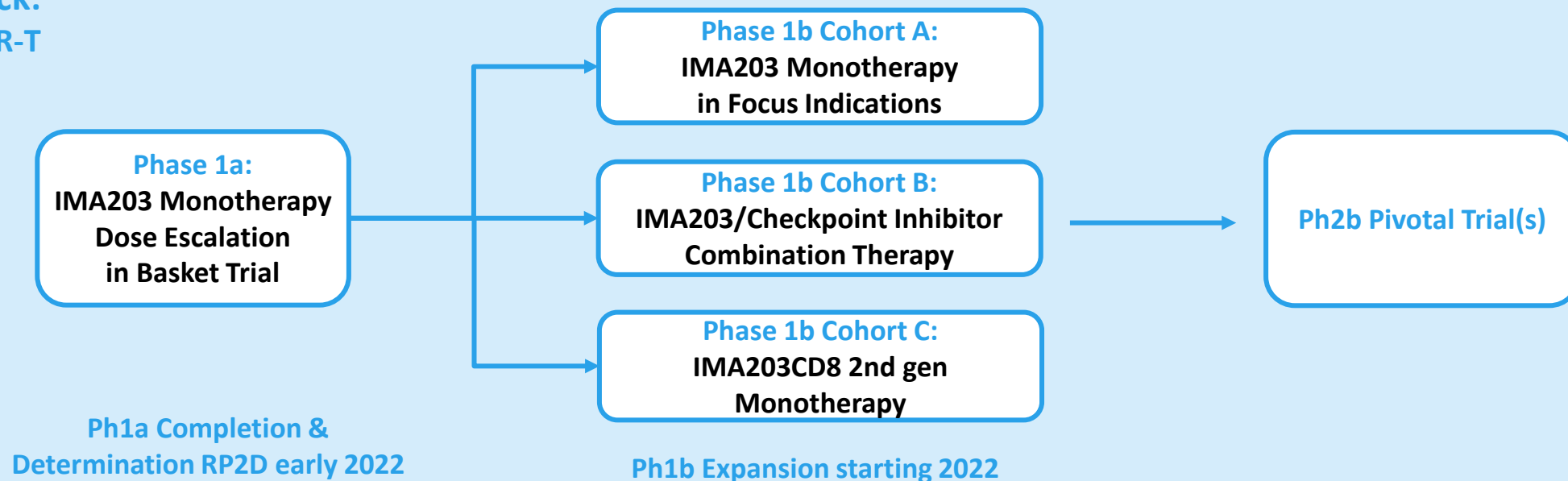
PRAME RNA expression in native tumor samples (ISH analysis)



Comprehensive Strategy to Target PRAME

Maximizing PRAME Mediated Clinical Benefit Through ACT and TCR Bispecifics

TCR-T Track: PRAME TCR-T

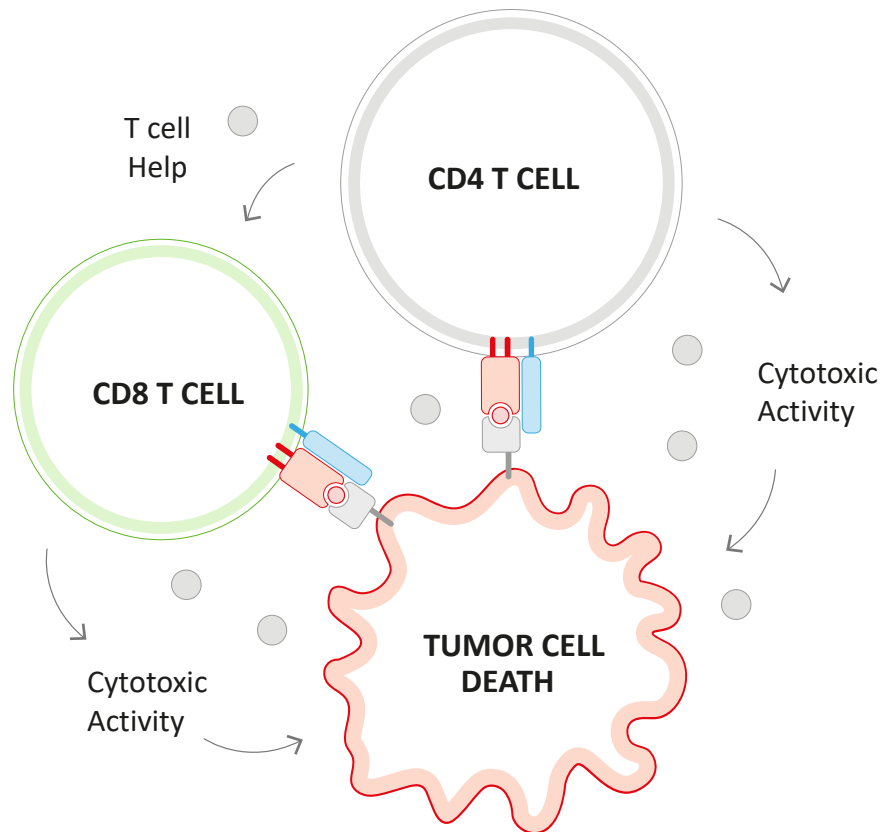


Bispecifics Track: PRAME TCR Bispecific



ACTengine® IMA203CD8 – Second-generation TCR-T

Building on First-Gen IMA203 Success to Further Improve Anti-Tumor Activity



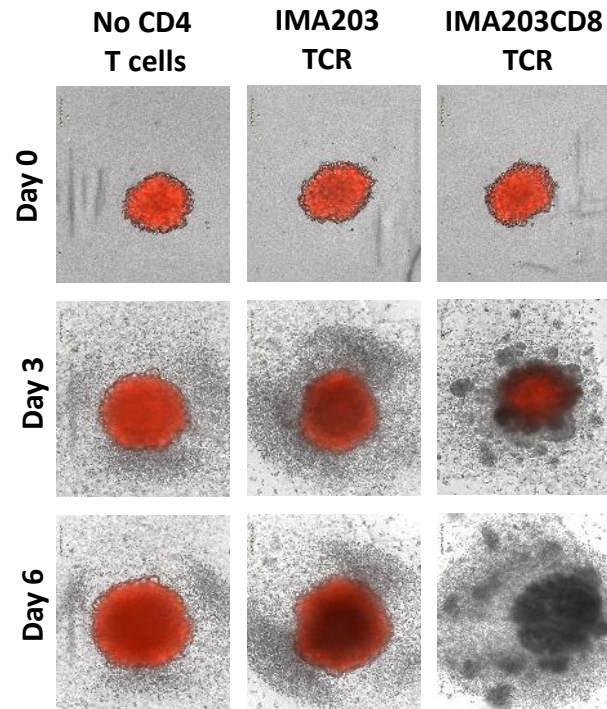
- Engagement of CD4 T cells by CD8 co-transduction reported to boost anti-tumor activity in TCR-T trials
- Functional superiority of a **CD8αβ IMA203** construct (IMA203CD8) over multiple other CD8 constructs in preclinical experiments
 - Poster presentation at SITC, Nov 12, 2021
- Secured access to CD8αβ technology through exclusive license from Baylor College of Medicine
- IND filing for IMA203CD8 lead candidate targeted in 1H2022



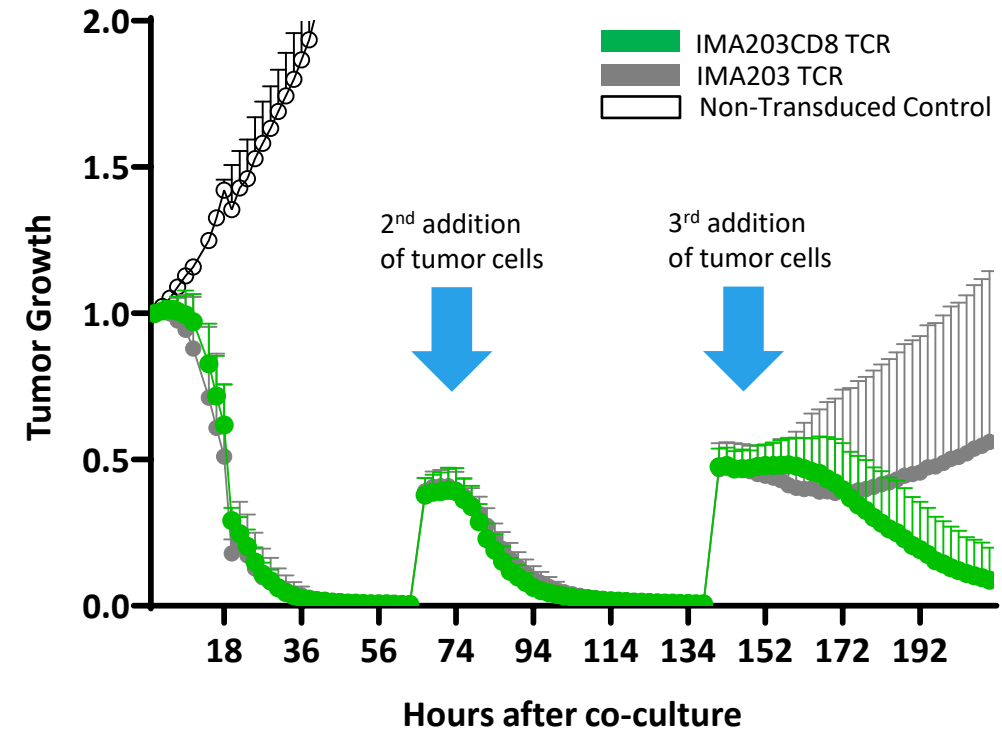
ACTengine® IMA203CD8 – Preclinical Assessment of Anti-Tumor Efficacy

Co-Transduction of CD8 Enhances Anti-Tumor Activity *in Vitro*

3D Spheroid Killing – CD4 T cells



Serial Killing Assay – CD8 & CD4 T cells



Engagement of CD4 T cells may enhance depth and durability of anti-tumor response and clinical outcome of TCR-T in solid cancer patients

Focused and broad approach targeting PRAME: Aiming to maximize clinical benefit through ACT programs and TCR Bispecifics

PRAME TCR-T (IMA203 Ph1a)

- Complete IMA203 Ph1a Dose Escalation with doses above 1 bn cells (DL4)
- Determine Recommended Phase 2 Dose (RP2D) in 1Q2022

PRAME TCR-T (IMA203 Ph1b)

- Initiate IMA203 Ph1b Dose Expansion in 1H2022
- Maximize therapeutic potential through multiple Ph1b cohorts
 - Monotherapy at RP2D
 - Checkpoint Inhibitor Combination
 - 2nd gen IMA203CD8

PRAME BISPECIFIC (IMA402)

- Focused development of half-life-extended Bispecific (TCER® IMA402) following promising preclinical data
- Complete GMP run in 2022 & advance IMA402 to phase 1 trial



ACTengine® IMA200 TCR-T Programs Update

ACTengine® Programs – Status Update

	IMA201	IMA202	IMA203	IMA204
	MAGEA4/8	MAGEA1	PRAME	COL6A3 exon 6
Status	Dose escalation ongoing	Enrollment at target dose level (DL3) ongoing	Enrollment at target dose level (DL4) ongoing	IND-enabling studies close to completion
Recruitment	DL2 commenced N=2 pts treated	DL3 commenced N=10 pts treated	DL4 commenced N=18 pts treated	NA
Safety	Too early	Manageable safety profile; no DLTs or CRS/ICANS ≥ grade 3	Manageable safety profile; no additional DLTs ¹ & no CRS/ICANS ≥ grade 3	NA
Clinical Activity	Too early	Disease control in 7/10 patients (9 pts in DL1 & 2), no objective responses	Objective responses in 8/16 patients, thereof 8/13 responses above DL1	NA
Next milestone	Complete Ph1a dose escalation including target dose (DL3)		Complete Ph1a dose escalation incl. target dose (DL4). Initiate expansion cohorts incl. monotherapy, checkpoint inhibitor combination & IMA203CD8 2 nd gen	IND in 2022 due to acceleration of PRAME expansion cohorts

Unlocking Immunotherapies for Solid Cancer Patients

IMA201, IMA202, IMA203

Interim Data from
ongoing Dose Escalation



IMA203 - PRAME

Objective responses observed
across multiple tumor types



PRAME STRATEGY

Maximizing the therapeutic
potential of targeting PRAME

82% Disease Control
Rate

0 Grade ≥ 3 CRS or
ICANS¹

<1bn T cells infused in
almost all patients

50% ORR² across all doses
and multiple solid
cancers (8/16 patients)

62% ORR² at DL2* & DL3
(8/13 patients) – all still
dosed below 1 bn cells

TCR-T Multiple Ph1b cohorts

- Monotherapy at RP2D
- Checkpoint Inhibitor Combo
- 2nd gen IMA203CD8

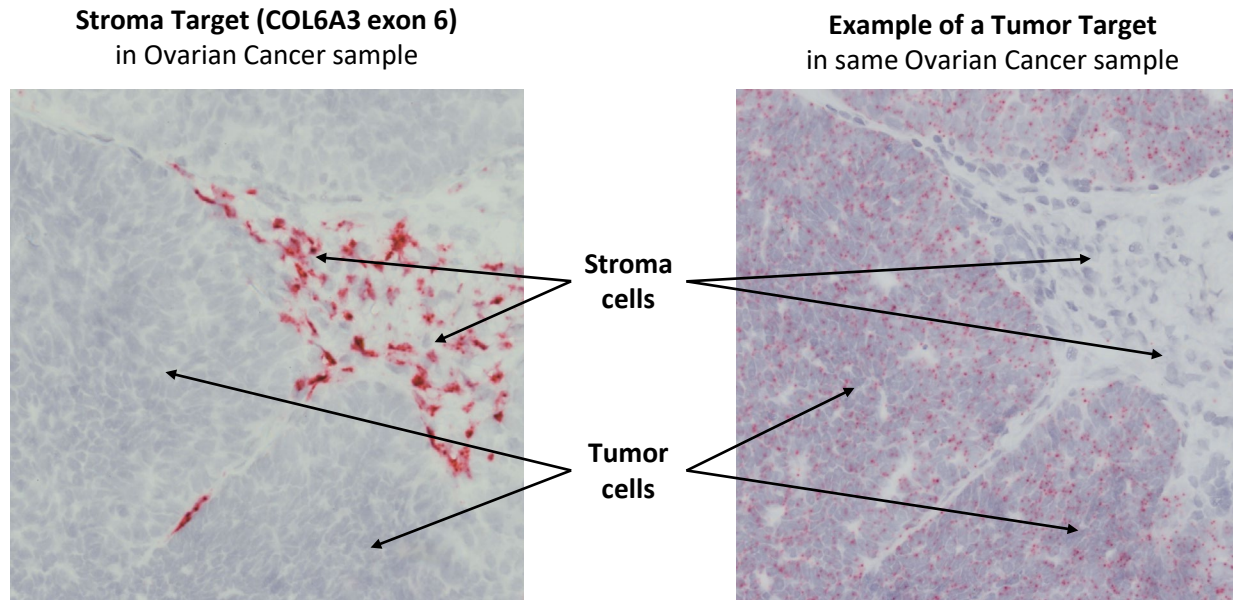
TCER® Focused development of
half-life-extended Bispecific
(TCER® IMA402)

¹ CRS: cytokine release syndrome, ICANS: Immune effector cell-associated neurotoxicity syndrome, both graded by CARTOX criteria (Neelapu *et al.*, 2018);

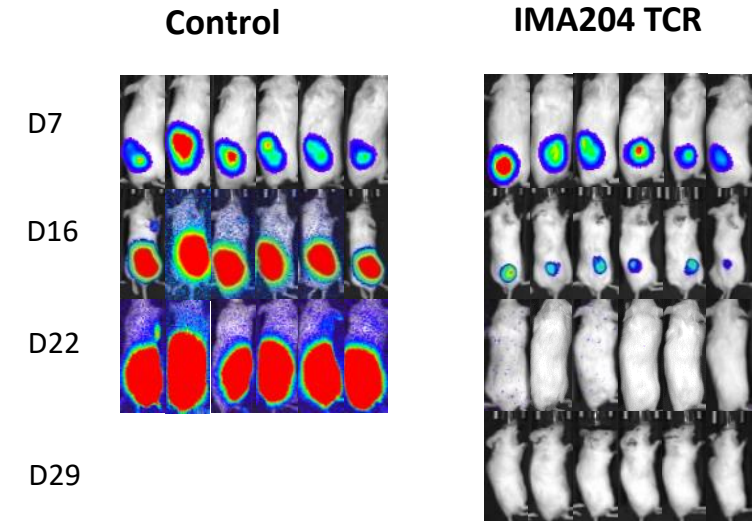
² Objective response rate according to RECIST 1.1 including confirmed and unconfirmed partial responses; * Includes patients treated at enrichment cohorts EC1 and EC2

ACTengine® IMA204 – A Novel TCR-T Program Targeting Tumor Stroma

Complete Tumor Eradication *in vitro* & *in vivo*¹ by Affinity-enhanced IMA204 TCR



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

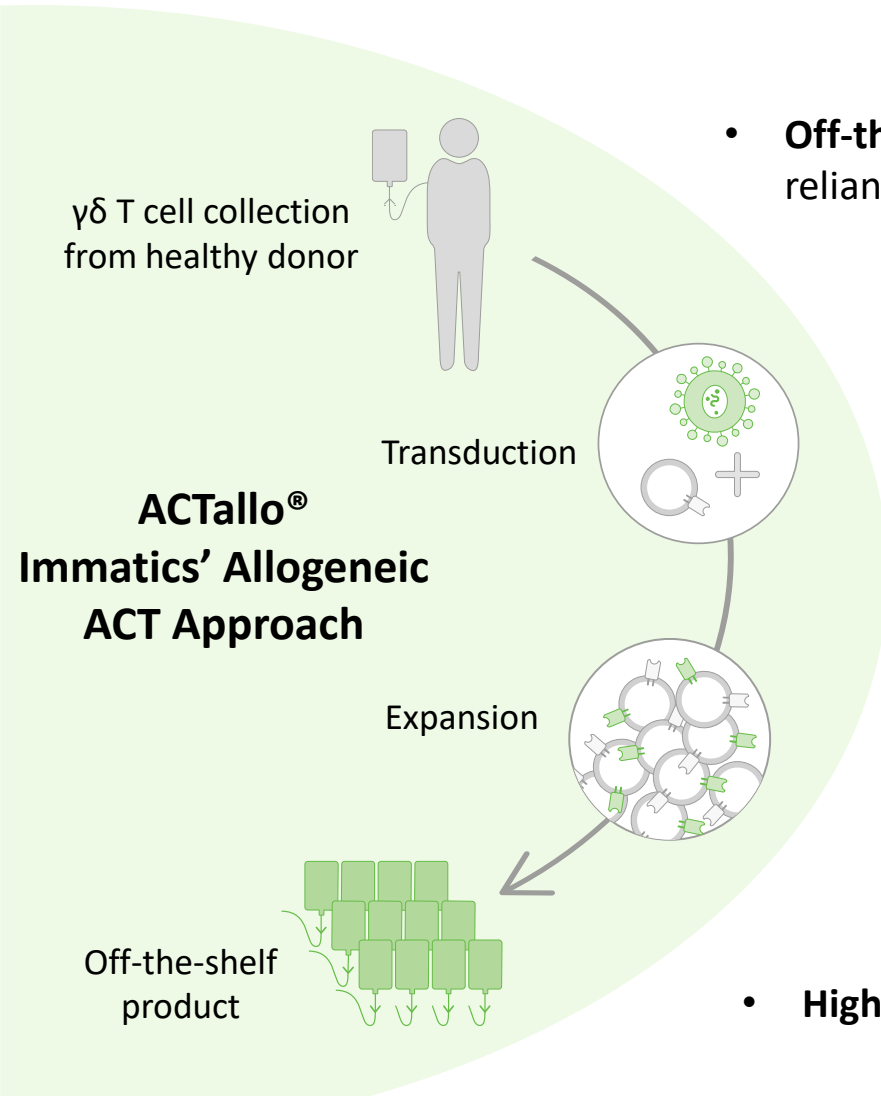


CD8-independent TCR leads to tumor eradication
in all mice treated

- **CD8-independent, next-generation TCR activates CD8 and CD4 T cells**
- **Final preclinical safety evaluation ongoing**

Outlook: ACTallo[®] IMA301 – Immatics' Allogeneic Cell Therapy Approach

Effective Redirection of $\gamma\delta$ T cells Using $\alpha\beta$ TCR



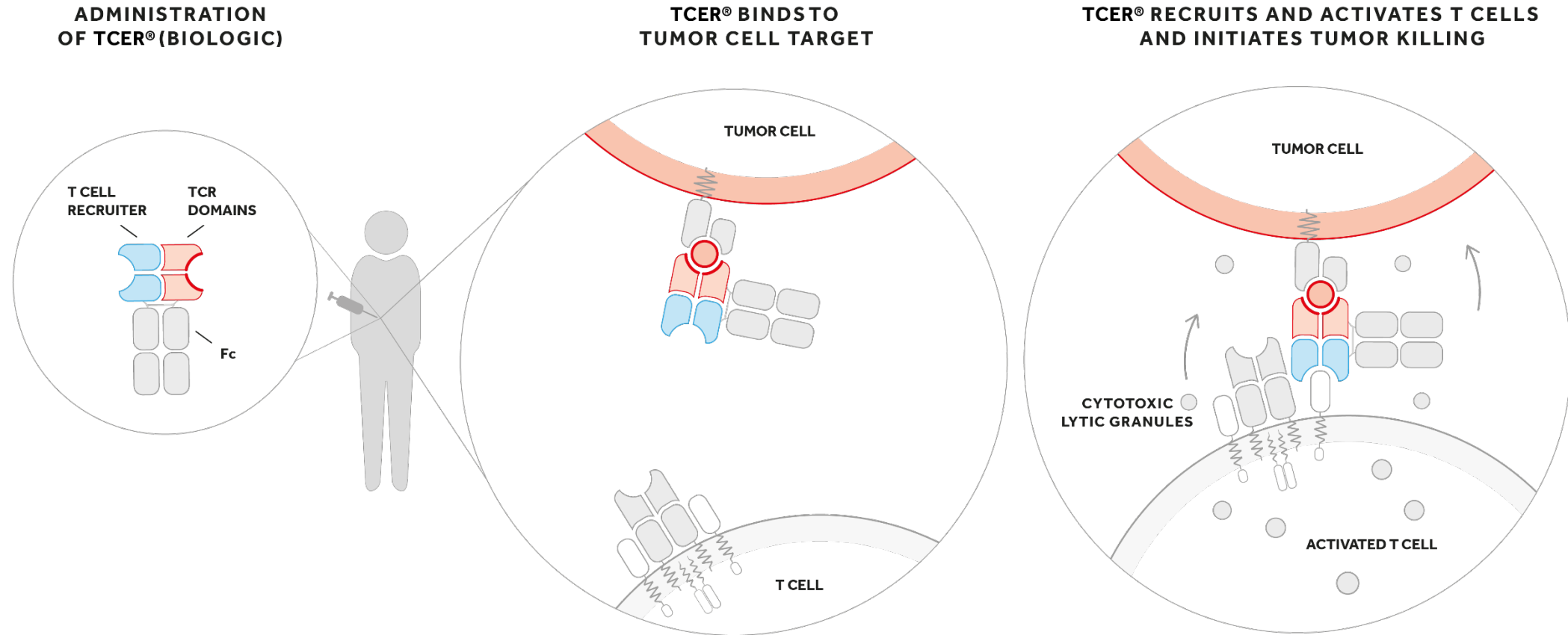
- **Off-the-shelf cell therapy**, applicable without need for personalized manufacturing and not reliant on potentially encumbered immune system of patient
- **γδ T cells** are abundant, show intrinsic anti-tumor activity, naturally infiltrate solid tumors and do not cause graft-vs-host disease
- **Proprietary manufacturing protocol** delivering robust expansion of γδ T cells with the potential for hundreds of doses from one single donor leukapheresis
- **Proprietary single lentiviral vector** system (4-in-1 construct) including TCR and CD8 alpha & beta chains
- **High potency**: TCR transduced γδ T cells show similar anti-tumor activity to αβ T cells



TCER® – TCR Bispecifics

TCER® – Mechanism of Action

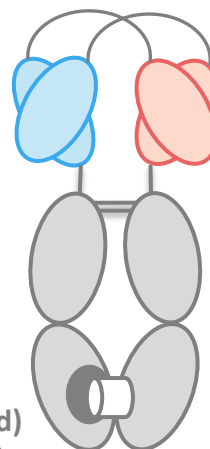
Immatics' Off-the-Shelf TCR Bispecifics Approach



Optimized Design of TCR and T cell Recruiter for Maximizing Efficacy while Minimizing Toxicities

T cell recruiting antibody

- ✓ **Low-affinity** T cell recruiter against both **TCR & CD3**
- ✓ **Optimized biodistribution** aiming for enrichment at tumor site and **prevention of CRS**¹
- ✓ **Superior anti-tumor activity** in mouse models as compared to widely used CD3 recruiters



Fc domain (silenced)
with knob-into-hole
technology

pHLA targeting TCR

- ✓ **High-affinity TCR** with broad therapeutic window through **XPRESIDENT®-guided** affinity maturation (>1000x)²
- ✓ Targets HLA-A*02-restricted MAGEA4/8 (IMA401) or PRAME (IMA402) peptide with **high target density**
- ✓ **Complete tumor eradication** in mouse xenograft models at low doses

Next-generation TCER® format

- ✓ Off-the-shelf biologic with antibody-like manufacturability⁴ and low cost of goods
- ✓ Superior anti-tumor activity⁵ compared to six alternative bispecific formats
- ✓ Half-life of several days expected in humans

TCER® Portfolio

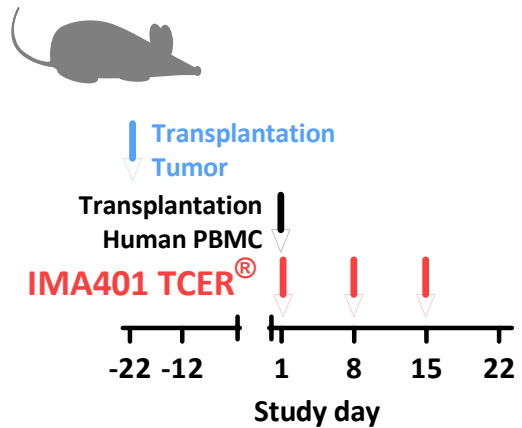
TCER Pipeline Strengthened by a Third Program IMA40X

	IMA401	IMA402	IMA40X
	MAGEA4/8	PRAME	Undisclosed
Status	CTA filing in Germany targeted Q4 2021 Phase 1 trial in 2022	Clinical GMP batch targeted in 2022 Phase 1 trial in 2023	TCER® engineering and preclinical testing ongoing
Preclinical Proof-of-concept – Efficacy / Safety	<ul style="list-style-type: none"> ➤ Complete remission of established tumors in xenograft mouse models at low doses ➤ Very broad therapeutic window (reactivity tumor compared to normal cells) 		n/a
Half-life	Half-life extended to several days via effector function silenced Fc part		
Clinical Development Strategy	<ul style="list-style-type: none"> ➤ First in human basket trial ➤ Adaptive design aiming at fast dose escalation ➤ Development strategy includes TCER® as add on to checkpoint inhibitor-based standard of care in early lines of treatment 		

TCER® IMA401 Targeting MAGEA4/8

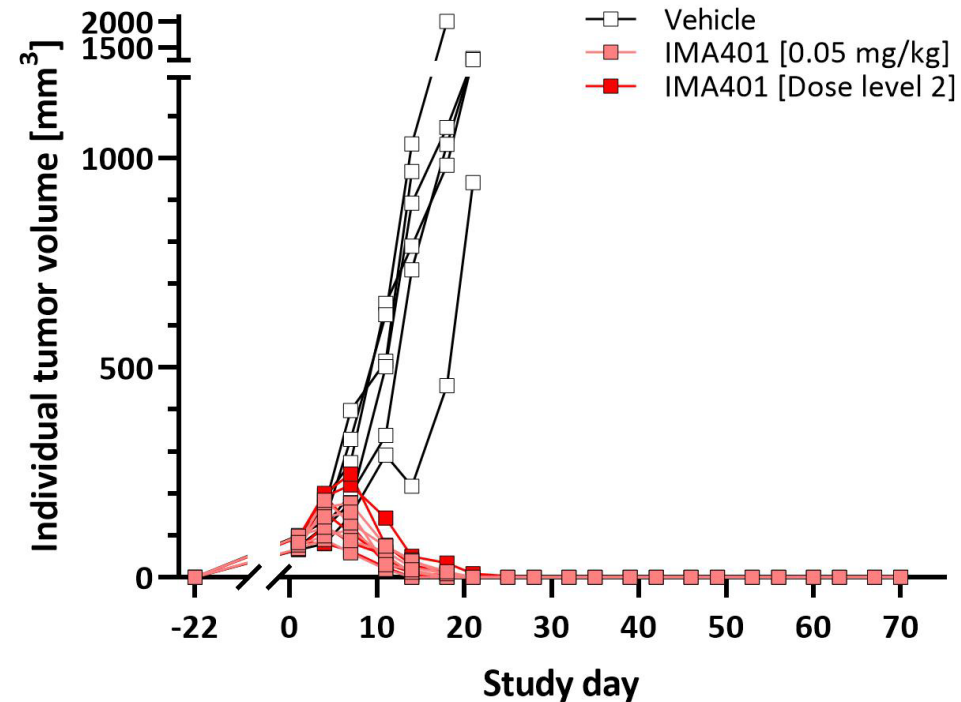
Highly Potent Biologic Leading to Tumor Eradication at Low Concentrations

Treatment schedule



N=6 mice per group, two PBMC donors
Dose: two dose levels

Tumor Model in Mice¹

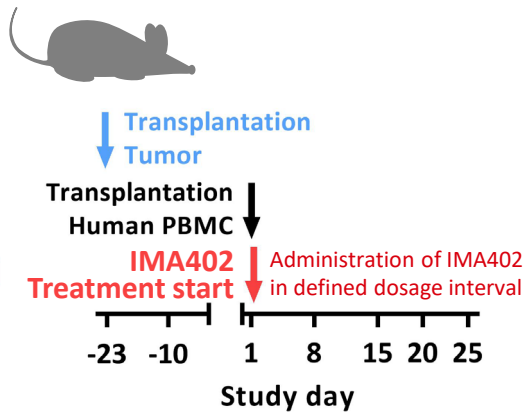


- **Complete remissions observed in all animals** even at low IMA401 dose of 0.05 mg/kg
- No detectable outgrowth of tumors during **prolonged observation period of 70 days**

TCER® IMA402 Targeting PRAME

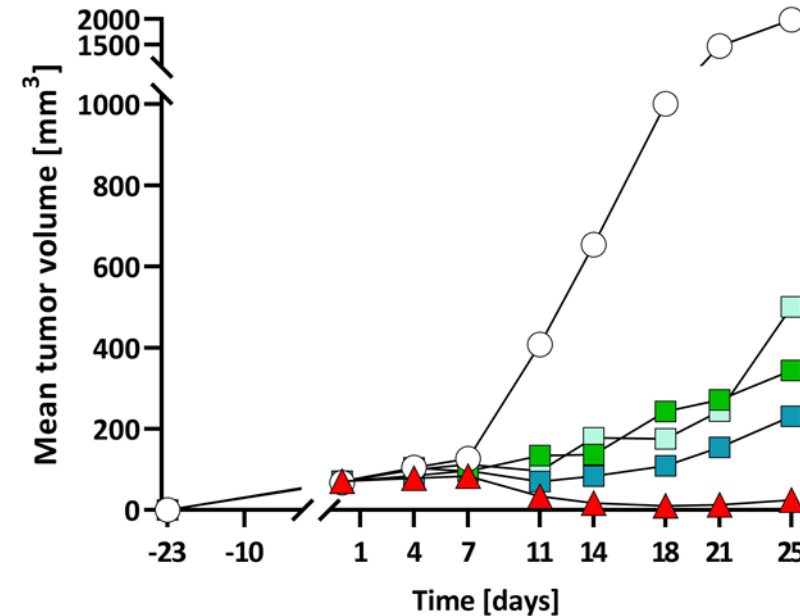
Superior Anti-Tumor Activity of IMA402 Low-Affinity Recruiter at Low Doses

Treatment schedule



N=6 mice per group, two PBMC donors
Dose: 0.025 mg/kg

Tumor Model in Mice¹



- Vehicle
 - TCER®-Ab1
 - TCER®-Ab2
 - TCER®-Ab3
 - ▲ IMA402
- Widely used T cell recruiting Ab (3 variants)
medium to high affinity
- Immatics' T cell recruiting Ab
low affinity

Bunk *et al*; PEGS2021

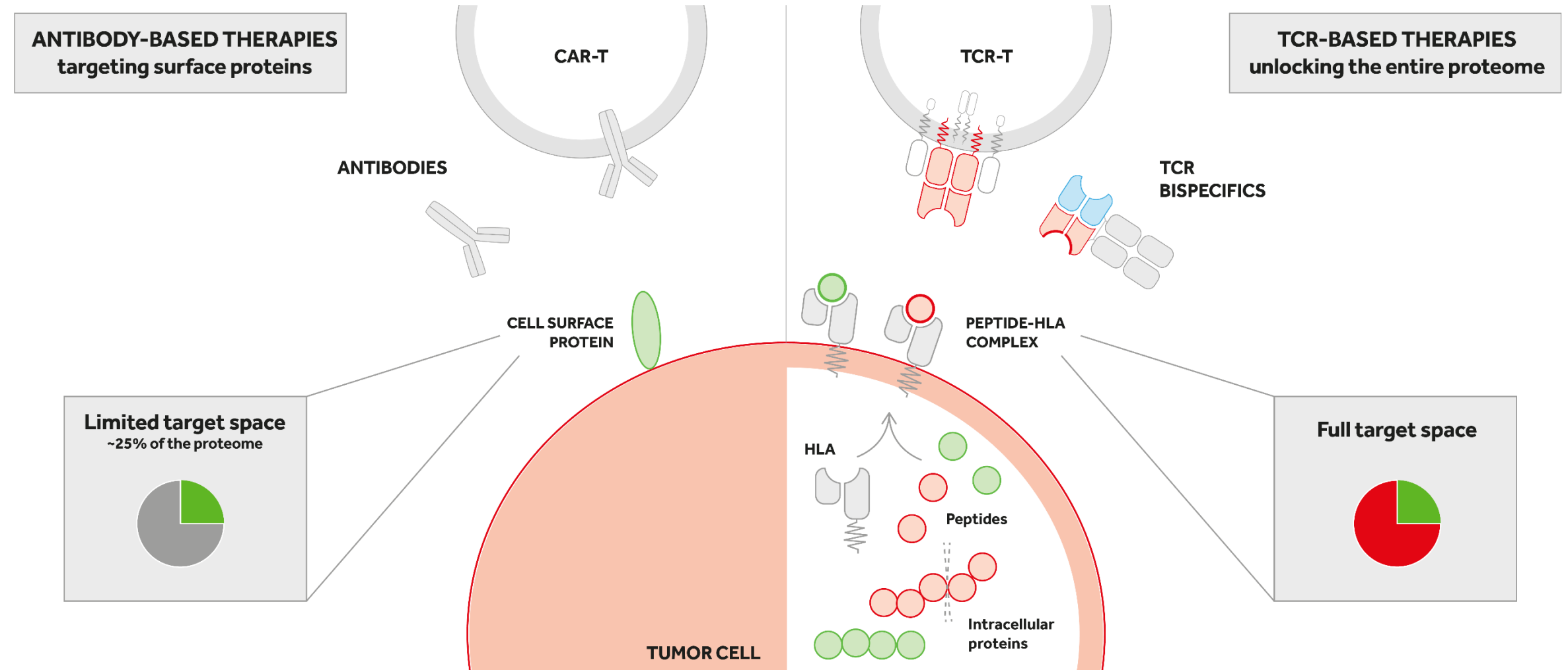
Proprietary, low-affinity T cell recruiting antibody demonstrates superior tumor control than analogous TCER® molecules designed with higher-affinity variants of a widely used recruiter



Immatics' Proprietary Target and TCR Discovery Platforms

Accessing Intracellular Cancer Targets with TCR-based Therapeutics

To Unlock Immunotherapies for Solid Cancer Patients



True Cancer Targets & Matching Right TCRs

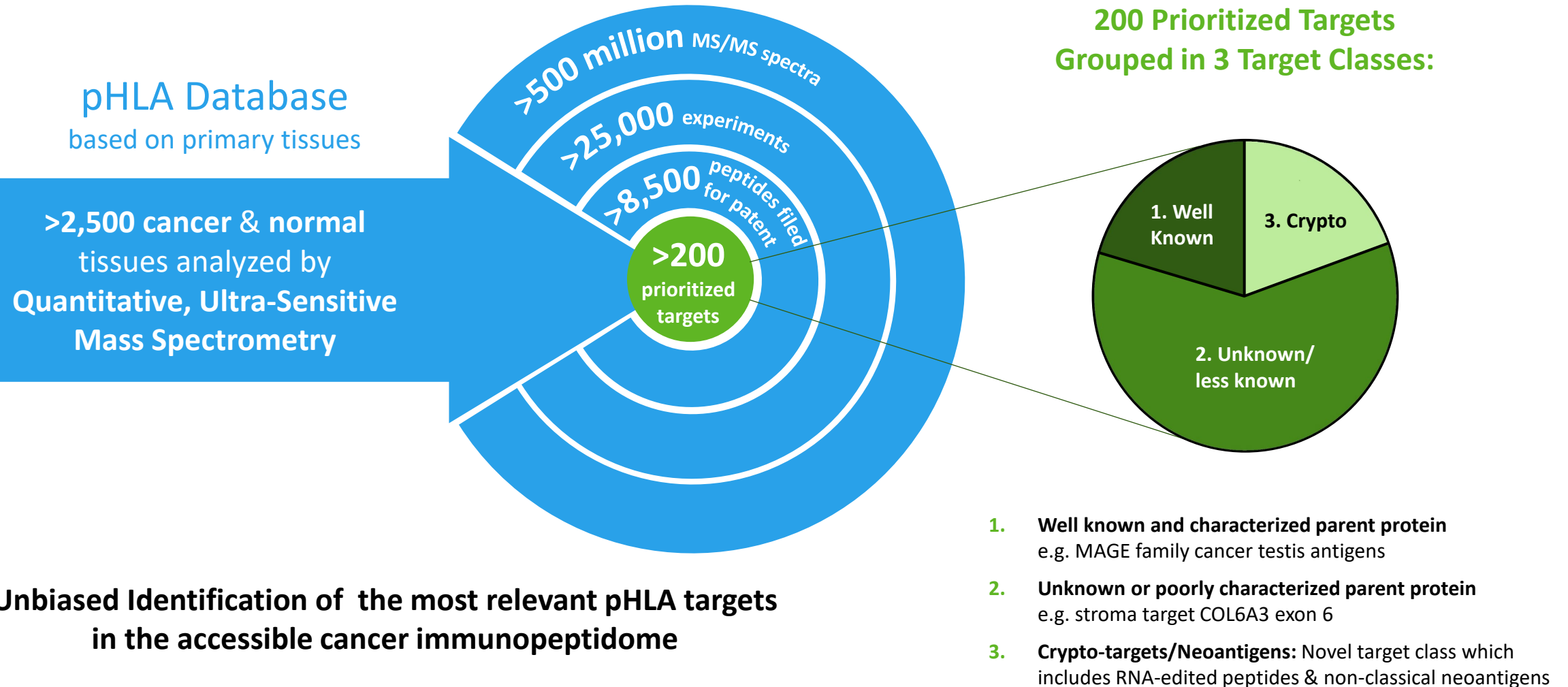


True Targets - expressed on cancer but not or to far lower extent on normal tissue
Minimizing risk for on-target toxicity

Right TCRs - highly specific and high affinity as outcome of stringent development process
Minimizing risk for off-target toxicity
(TCR cross-reactivity)

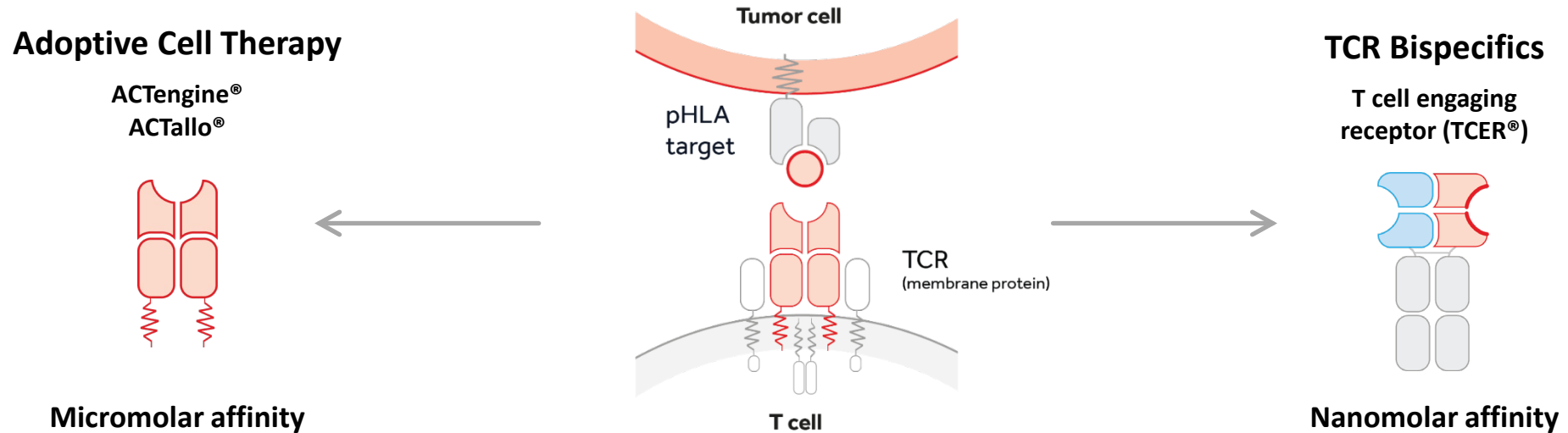
XPRESIDENT® – Discovery of True Cancer Targets

Pool of 200 Targets as Foundation for our Future Pipeline



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 mature TCRs with increased affinity while retaining specificity
- Early de-selection of cross-reactive TCRs at discovery stage and during TCR maturation by the unique interplay between Immatics' target and TCR discovery platforms XPRESIDENT® and XCEPTOR®

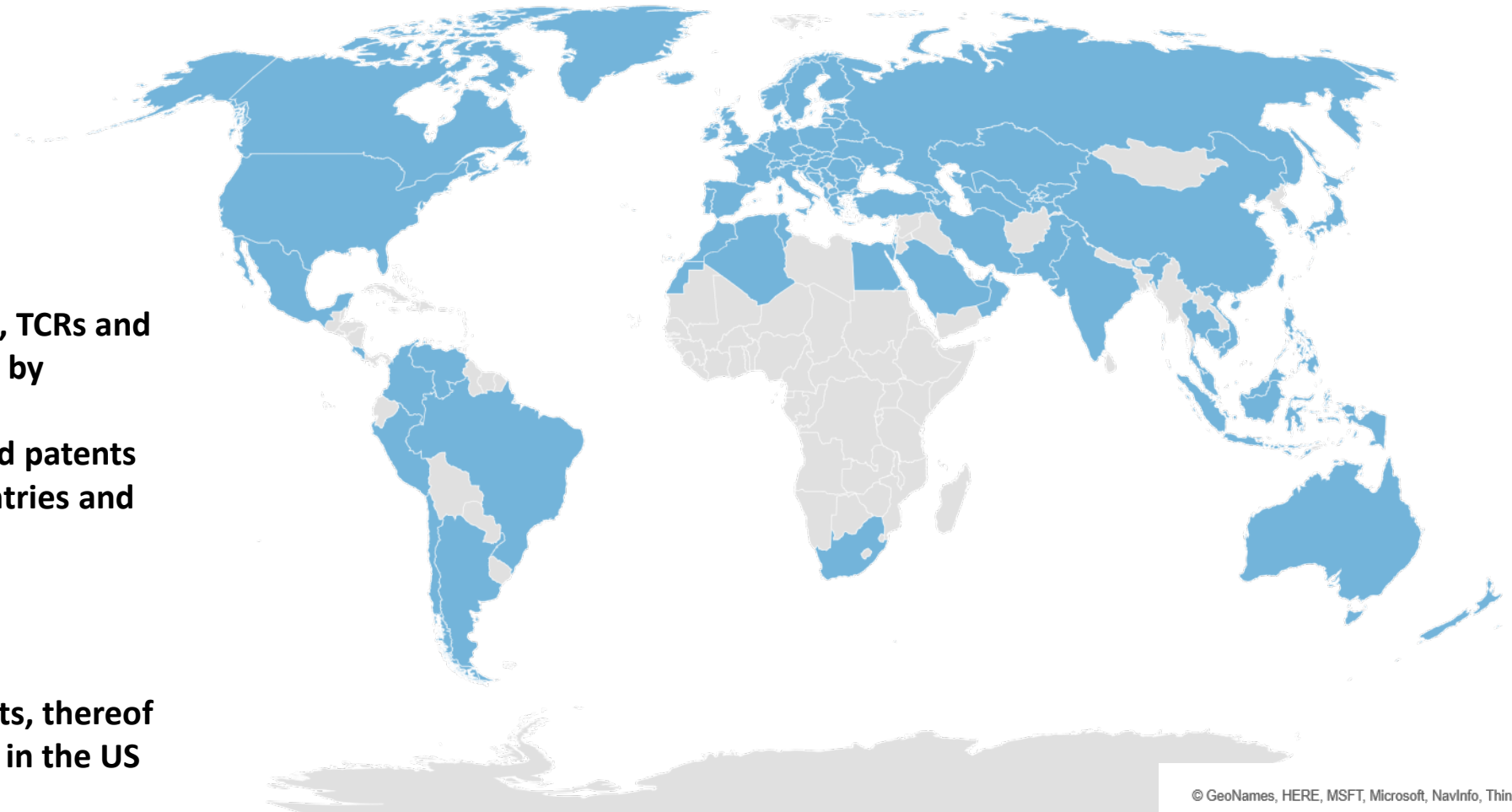


Corporate Information & Milestones

Robust IP Portfolio

Immatics' Patent Estate – Territorial Coverage

- **>8,000 cancer targets, TCRs and technology protected by**
- **5,500 applications and patents filed in all major countries and regions**
- **>120 patent families**
- **>1,550 granted patents, thereof
>450 granted patents in the US**



Powered by Bing
© GeoNames, HERE, MSFT, Microsoft, NavInfo, Thinkware Extract, Wikipedia

Strong, Focused and Highly Integrated Trans-Atlantic Organization

Tübingen, Germany, ~160 FTEs



Senior Leadership, Research and Development (XPRESIDENT®, XCEPTOR®, TCER®), Translational Development, Clinical Operations, Finance, HR, IT, QM

Houston, Texas , ~100 FTEs



Senior Leadership, Research and Development (Adoptive Cell Therapy), CMC, Clinical Operations, Regulatory Affairs, QA/QC, HR, Investor Relations

Munich, Germany, ~40 FTEs



Senior Leadership, Business Development, Clinical Operations, Intellectual Property, Regulatory Affairs, Communications

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
(Probiobrug, NovImmune, Medigene, InflaRx)



Cedrik Britten
Chief Medical Officer
>10 yrs pharma & biotech experience
(BioNTech, GSK)



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



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



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



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



Edward Sturchio
General Counsel
>15 yrs pharma & biotech experience
(Schering, Merck, Novartis, Advanced Accelerator Applications, Abeona Therapeutics)



Jordan Silverstein
Head of Strategy
>10 yrs biotech experience
(Advanced Accelerator Applications, InflaRx)

Upcoming R&D Milestones

Modality	Product Candidate	Status	Preclinical	Phase 1a ¹	Phase 1b ¹	Phase 2/3	Next Milestone
ACTengine® Autologous ACT	IMA201 (MAGEA4/8)	Proprietary					Complete dose escalation 2022
	IMA202 (MAGEA1)	Proprietary					Complete dose escalation 1Q2022
	IMA203 (PRAME)	Proprietary					Complete dose escalation 1Q2022
	IMA203 (PRAME) + Checkpoint Inhibitor	Proprietary					Start Ph1 in 2022
	IMA203CD8 (PRAME)	Proprietary					IND 1H2022
	IMA204 (COL6A3)	Proprietary					IND 2022
Autologous ACT	3 ACT programs (Undisclosed)	 Bristol Myers Squibb™					
	2 ACT programs (Undisclosed)						
Allogeneic ACT	ACTallo® IMA30x (Undisclosed)	Proprietary					
TCER® Bispecifics	IMA401 (MAGEA4/8)	Proprietary					IND YE2021; Start Ph1 1H2022
	IMA402 (PRAME)	Proprietary					GMP run 2H2022, Start Ph1 2023
	IMA40x (Undisclosed)	Proprietary					
Bispecifics	3 Bispecific programs (Undisclosed)	 Genmab					

Immatics Key Take-Aways

Broadly Positioned in the TCR Therapeutics Space with ACT & TCR Bispecifics

ACTengine® (TCR-T) – High Objective Response Rate during ongoing dose escalation in TCR-T Ph1a trial IMA203 to PRAME

- IMA203 (PRAME): Objective responses across multiple tumor types at dose levels below 1 billion T cells at early phases of dose escalation
- Multiple upcoming inflection points for 3 ongoing TCR-T trials in 2022
- Next wave of TCR-T entering clinical development in 2022 with IMA203CD8 and IMA204


TCER® – Next-generation Bispecific platform with the lead molecule entering the clinical development in 2022

- Optimized design for maximizing efficacy while minimizing toxicities
- Next-generation half-life extended TCER® format with off-the-shelf availability & antibody-like manufacturability
- Preclinical proof-of-concept demonstrated for IMA401 (MAGEA4/8) & IMA402 (PRAME), start of IMA401 Ph1 clinical study in 1H2022

Comprehensive strategy to target PRAME and maximize opportunities for clinical benefit via TCR-T and TCR Bispecifics

Sustainable Fundamentals

- Differentiated target and TCR discovery platforms providing the basis for future fully owned and partnered programs
- Strong cash position of approx. US\$229m (as of June 30, 2021)



DELIVERING THE POWER
OF **T CELLS** TO
CANCER PATIENTS

Thank you

www.immatics.com

