



Immatics Corporate Presentation June 30, 2022

© Immatics. Not for further reproduction or distribution.

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 (the "SEC"). Nothing in this presentation should be regarded as a representation by any person that the 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.

Building a Leading TCR Therapeutics Company







Two Clinical-Stage Modalities

Pipeline of TCR-T and TCR Bispecific product candidates in clinical & preclinical development Clinical PoC for Cell Therapy

Objective responses across multiple solid tumors in early TCR-T clinical development



Differentiated Platforms

Unique technologies to identify true cancer targets and right TCRs



Therapeutic

Opportunity

Potential for addressing

with high prevalence

targets in solid tumors

large patient populations



Strategic Partnerships

> World-leading industry players with synergistic expertise

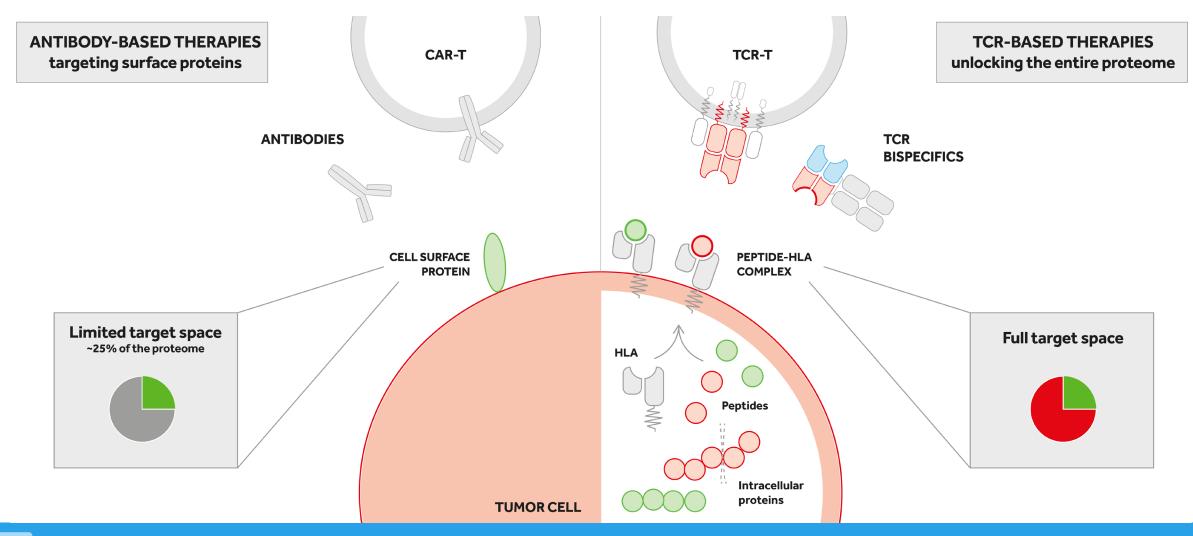


Solid Cash Runway

To reach next value inflections points across our portfolio

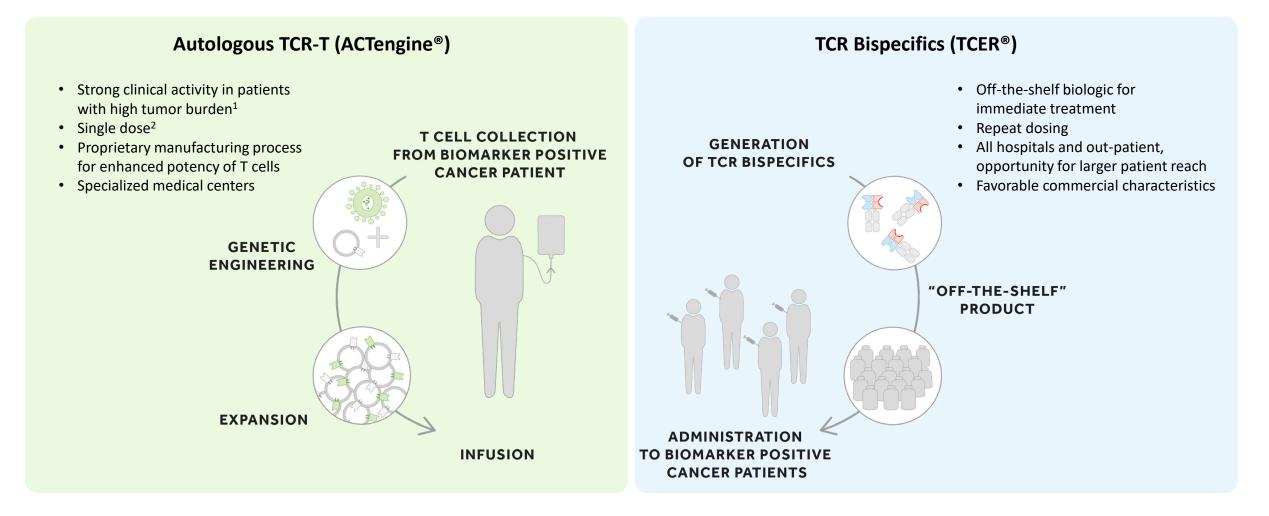
immatics

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



Two Distinct TCR-based Therapeutic Modalities in Clinical Development





Differentiated positioning of ACTengine[®] vs. TCER[®] based on patient population, medical need and geographical reach

Our Pipeline of TCR-based Adoptive Cell Therapies and Bispecifics

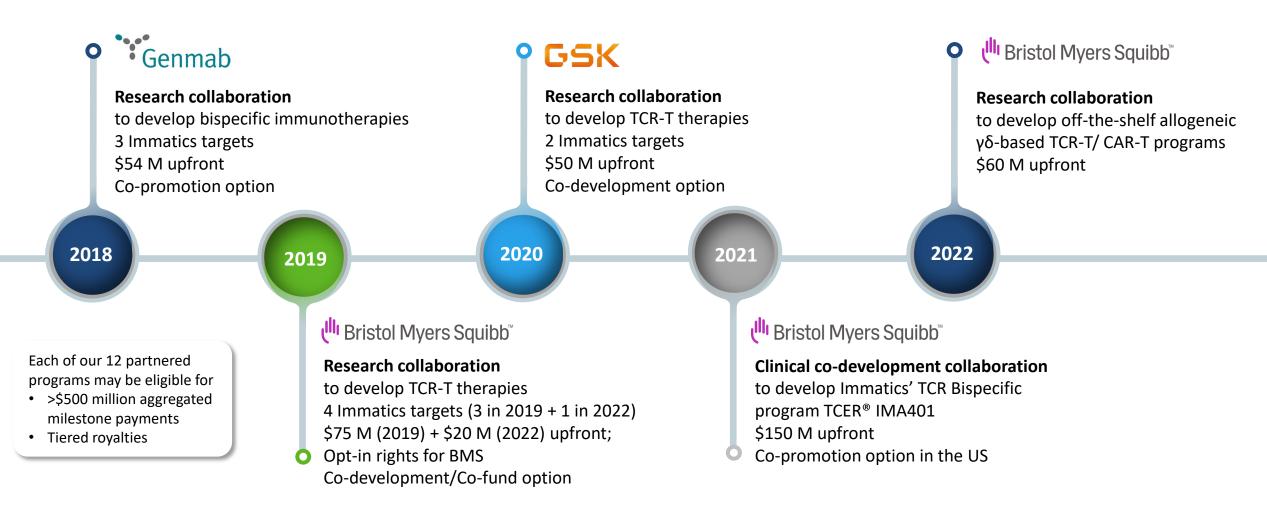


Modality	Product Candidate	Target		Preclinical	Phase 1a ¹	Phase 1b ¹	Phase 2/3
	IMA203	PRAME	1000 Immatics	+ Cl	heckpoint Inhibitor ²		
ACTengine [®] Autologous ACT	IMA203CD8	PRAME	immatics				
	IMA201	MAGEA4/8	immatics				
	IMA204	COL6A3	immatics				
	4 programs	ograms Undisclosed 🖑 Bristol Myers Squibb"					
Autologous ACT	2 programs	Undisclosed	GSK				
ACTallo [®]	IMA30x	Undisclosed	immatics				
Allogeneic ACT γδ T cells	2 programs	Undisclosed	ر ^{ال} ا Bristol Myers Squibb				
	IMA401	MAGEA4/8	ر <mark>الار</mark> Bristol Myers Squibb				
TCER [®] Bispecifics	IMA402	PRAME	immotics				
	IMA40x	Undisclosed	immatics				
Bispecifics	3 programs	Undisclosed	Genmab				

Strategic Collaborations



Synergistic Expertise that Can Foster Transformative Innovations for ACT and Bispecifics



Broadening the clinical framework beyond our pipeline

Immatics and Bristol Myers Squibb – New Allogeneic Multi-program Collaboration



Leveraging Complementary Technologies & Capabilities for the Benefit of Cancer Patients

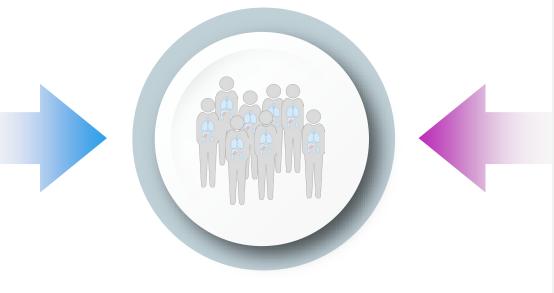
Immatics

Innovative γδ-derived allogeneic cell therapy platform ACTallo[®]

State of the art gene editing & manufacturing

Activities for initial 2 BMS programs: Preclinical development

Off-the-shelf allogeneic TCR-T/CAR-T therapies for patients with solid cancers



- Initial 2 BMS programs
- Up to 4 additional BMS programs
 (TCRs developed in the context of the autologous TCR-T collaboration¹ might feed into allogeneic TCR-T programs)
- Up to 4 Immatics programs

Bristol Myers Squibb

Complementary next-gen technologies to potentiate anti-tumor activity

> Expertise in oncology drug development and commercialization

Activities for initial 2 BMS programs: Clinical development and commercialization

Potential for Large Patient Populations across Multiple Solid Cancers



	IMA201 / IMA401	IMA203 / IMA402	IMA204
	MAGEA4/8	PRAME	COL6A3 exon 6
Selected solid cancer indications with significant target prevalence ¹	Sarcoma Subtypes – up to 80% Squamous NSCLC – 50% HNSCC – 35% Bladder Carcinoma – 30% Esophageal Carcinoma – 25% Uterine Carcinosarcoma – 25% Ovarian Carcinoma – 20% Melanoma – 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%

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

Intro



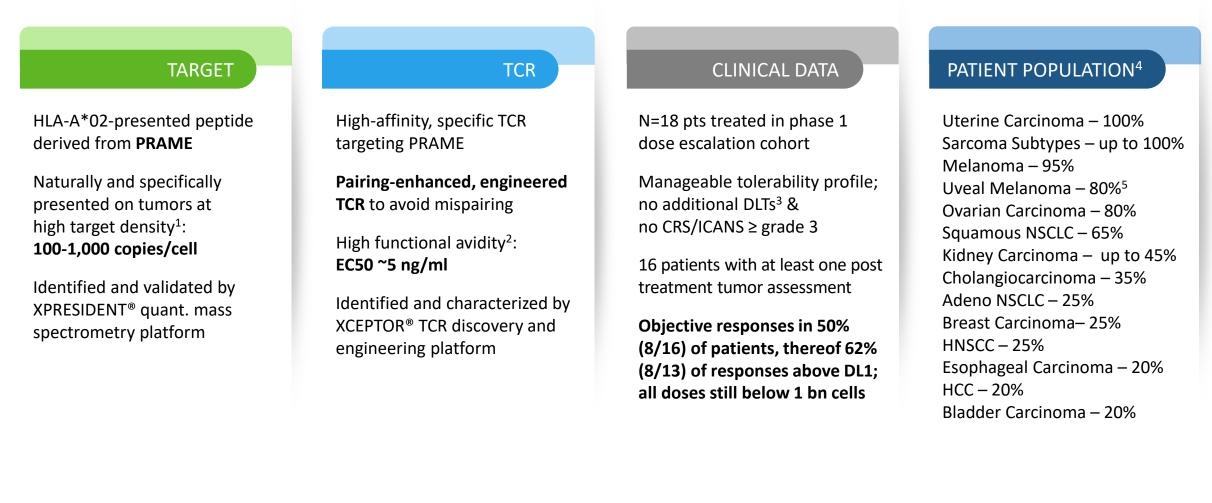


ACTengine® IMA203 – TCR-T Targeting PRAME

ACTengine® IMA203 – TCR-T Targeting PRAME



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



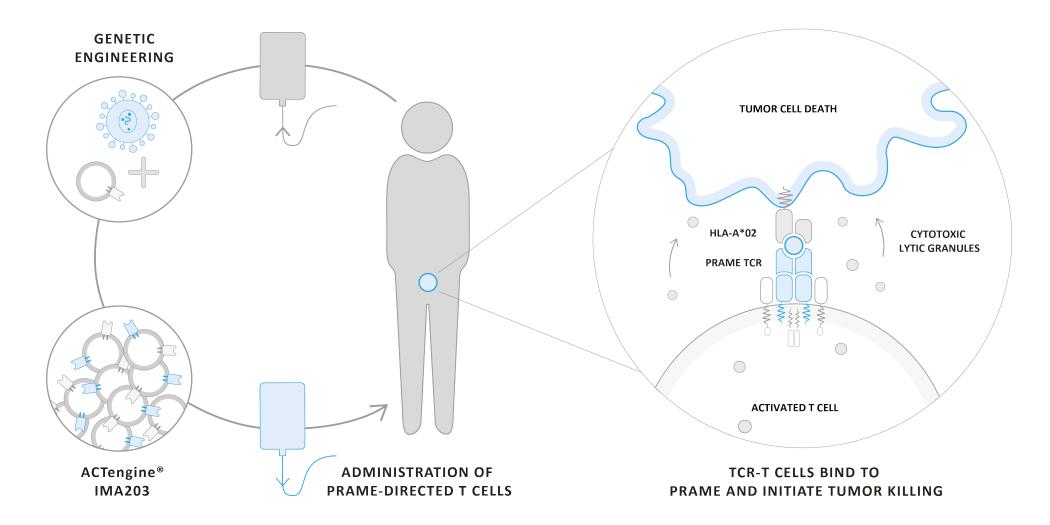
Data cut-off – 05-Oct-2021

¹ Target density: peptide copy number per tumor cell, approximate range representing the majority of tumor samples analyzed; ² Functional avidity: EC50 half maximal effective concentration; ³ One DLT in DL2 previously reported in March 2021, fully resolved; ⁴ Solid cancer indications with 20% or more target expression, Target prevalence for selected cancer indications based on mRNA expression (TCGA and Immatics inhouse data); ⁵ Based on metastatic uveal melanoma patients screened in IMA203 study (N=12)



ACTengine® IMA203 Targeting PRAME – Mechanism of Action

Immatics' Leading TCR-T Approach



generate younger T cells with increased proliferative capacity

improve engraftment and persistence in patients while utilizing

Proprietary Manufacturing Process, designed to

shorten vein-to-vein time

smaller doses

reduce manufacturing process to approx. 1 week¹

Optimized Cell Therapy Products to Enhance T cell Persistence & Efficacy

Current Proprietary Manufacturing Protocol for ACTengine® Product Candidates

Leukapheresis

 \checkmark

 \checkmark

 \checkmark

 \checkmark



ACTengine[®] clinical programs: ~3 weeks

Manufacturing time

(~1 week)

Commercial ACTengine® expected ~2 weeks

Manufacturing time	Expedited QC testing
(~1 week)	(~1 week)

In-house state-of-the-art cGMP Facility²

QC testing

(Full sterility, 2 weeks)

- Manufacturing by Immatics personnel
- Maximum capacity: 48 manufacturing runs/month
- Substantial in-house process development expertise



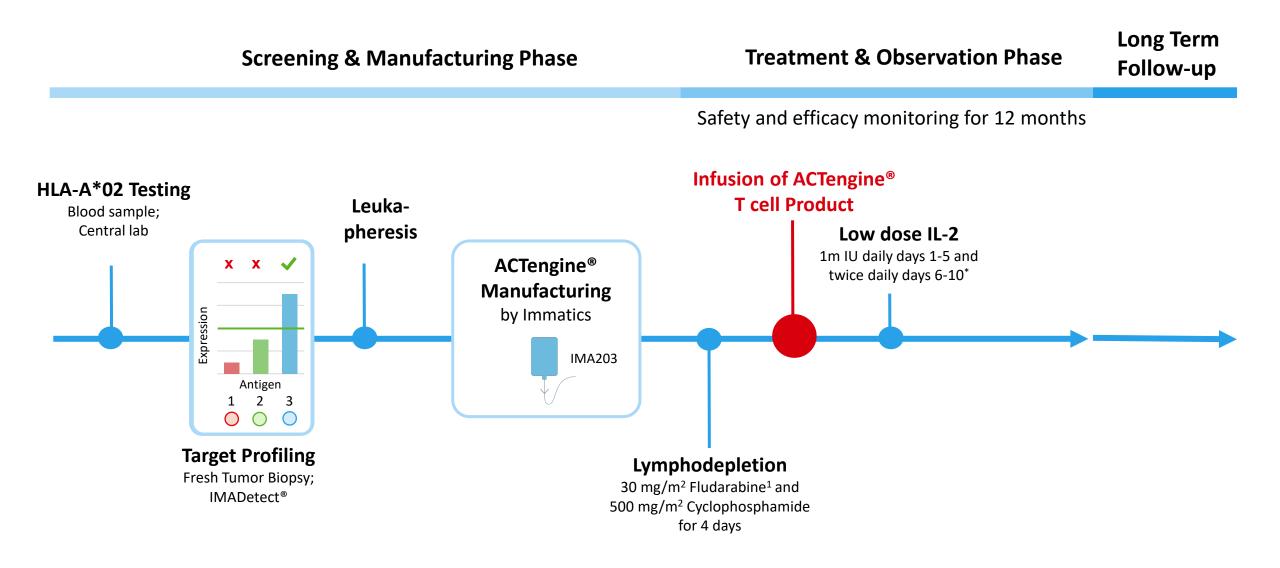
Infusion-Ready

IMMO



ACTengine® IMA203 – Patient Flow





IMA203

^{*} IL-2 dose reduction from twice daily to daily for the first 5 days and dosing duration from 14 to 10 days introduced prior to treatment of first patients on dose level 3; ¹ Dose reduction of Fludarabine (from 40mg/m² to 30mg/m²) was introduced prior to treatment of the first patient on dose level 3



ACTengine[®] IMA203 – Key Objectives & Trial Design

Presented at SITC Conference as Late-Breaking Presentation (Cut-off October 05, 2021)

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

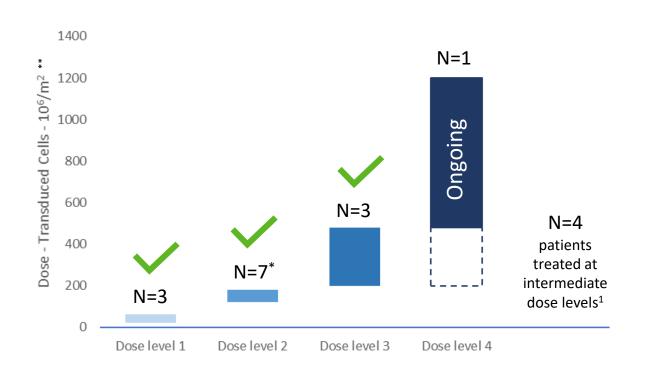
Duration of response

Exploratory

IMA203

Tumor Infiltration

Trial Design & Recruitment Status



18 patients¹ infused with PRAME-directed T cells at 5 clinical sites

Data cut-off – 05-Oct-2021

ACTengine® IMA203 – Safety Profile



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

				TEAEs k	oy maxim	um severity (N=19) ¹					
		All g	rades	≥ Gra	ade 3		All g	rades	≥ Gra	ade 3	
	Adverse event	No.	%	No.	%	Adverse event	No.	%	No.	%	
	Patients with any adverse event	19	100.0	19	100.0	table continued					
CRS/ICANS:	Adverse Events of Special interest					Cardiac or vascular disorders	_		_		DLT: Transient, Grade 3
No ≥ Grade 3 CRS	Cytokine release syndrome	17	89.5	0	0.0	Hypertension Atrial fibrillation	3 2	15.8 10.5	2 1 ⁴	10.5 5.3	atrial fibrillation
or ICANS	ICANS ²	4	21.1	0	0.0	Atrial libriliation	Z	10.5	Τ.	5.5	Onset on day 5 post
observed so far	Blood and lymphatic system disorders					General disorders and administration site co	onditions				infusion that
	Neutropenia*	16	84.2	15	78.9	Fatigue	7	36.8	1	5.3	resolved within 48h
	Anaemia	16	84.2	9	47.4	Pyrexia	5	26.3	0	0.0	DLT triggered
	Thrombocytopenia	15	78.9	7	36.8	Oedema peripheral	3	15.8	0	0.0	
Most Adverse	Lymphopenia*	14	73.7	14	73.7	Gastrointestinal disorders					expansion of DL2
Events were	Leukopenia*	12	63.2	11	57.9	Nausea	12	63.2	0	0.0	
associated with	Cytopenia	1	5.3	1	5.3	Vomiting	7	36.8	0	0.0	
	Infections and infestations					Diarrhoea	7	36.8	0	0.0	
lymphodepletion	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	
		-	5.5	-	5.5	Arthralgia	3	15.8	0	0.0	
	Metabolism and nutrition disorders					Alopecia	3	15.8	0	0.0	
	Hyponatraemia	7	36.8	1	5.3	Rash maculo-papular	2	10.5	1	5.3	
	Hypokalaemia	5	26.3	1	5.3	Orchitis	1	5.3	1	5.3	
	Decreased appetite	3	15.8	0	0.0	Contrast media allergy	1	5.3	1	5.3	

¹All treatment-emergent adverse events (TEAEs) with grade 1-2 occurring in at least 3 patients (incidence $\geq 15.8\%$) 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; ²ICANS: Immune effector cell-associated neurotoxicity syndrome; ³Patient died from sepsis of unknown origin and did not receive IMA203 T cells; ⁴DLT: Dose limiting toxicity; *100% of patients experienced transient cytopenias \geq Grade 3 (CTCAE v5.0) Data cut-off - 05-Oct-2021

ACTengine® IMA203 – Change in Target Lesions



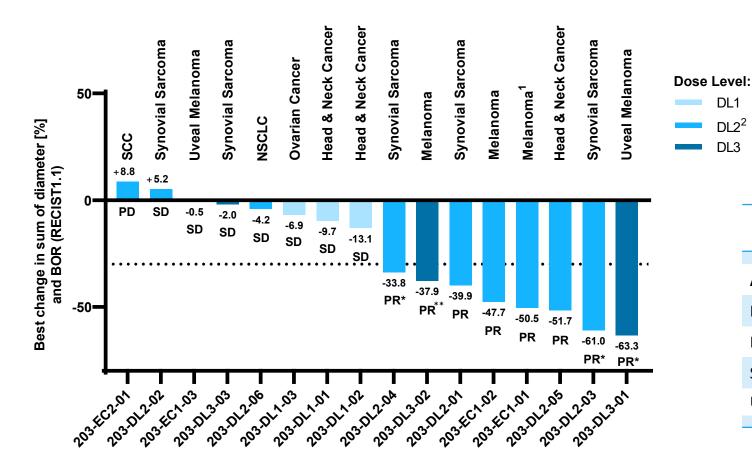
Objective Responses across Multiple Tumor Types at Doses below 1 billion Transduced Cells

DL1

 $DL2^2$

DL3

Best Overall Response (RECIST1.1)





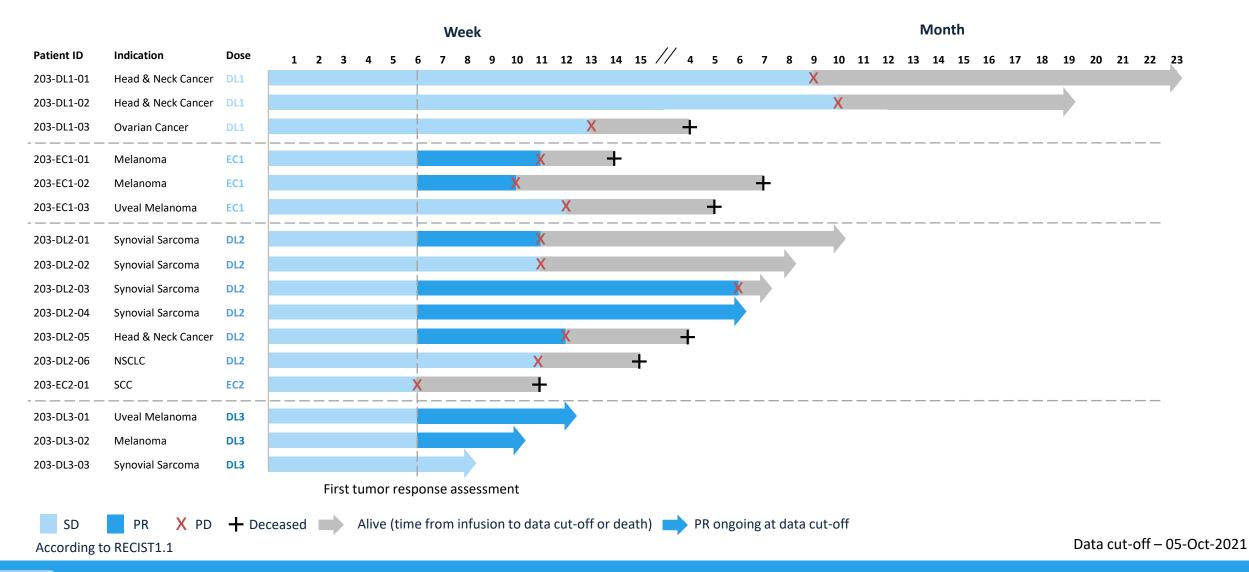
	All doses	Dosed above DL1
All comers	8/16 (50%)	8/13 (62%)
Melanoma	3/3 (100%)	3/3 (100%)
Head & Neck Cancer	1/3 (33%)	1/1 (100%)
Synovial Sarcoma	3/5 (60%)	3/5 (60%)
Uveal Melanoma	1/2 (50%)	1/2 (50%)

Data cut-off – 05-Oct-2021

ACTengine® IMA203 – Response Over Time



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



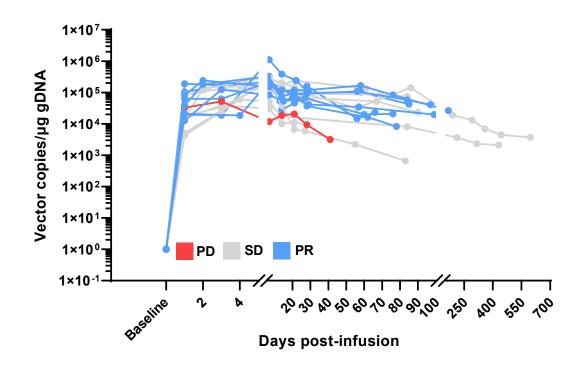
IMA203

ACTengine[®] IMA203 – Engraftment, Persistence & Tumor Infiltration



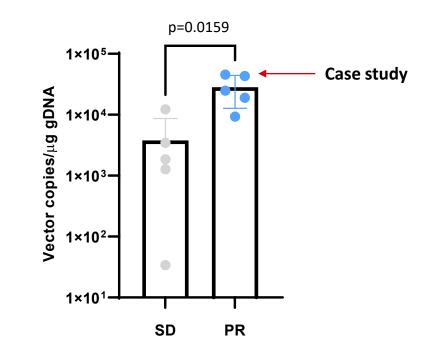
Clinical Responses Consistent with Biological Data

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



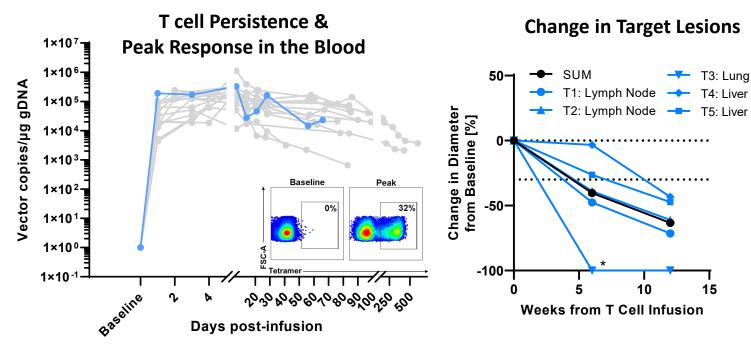
High T cell infiltration observed through serial biopsies associated with clinical response³

Data cut-off – 05-Oct-2021

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

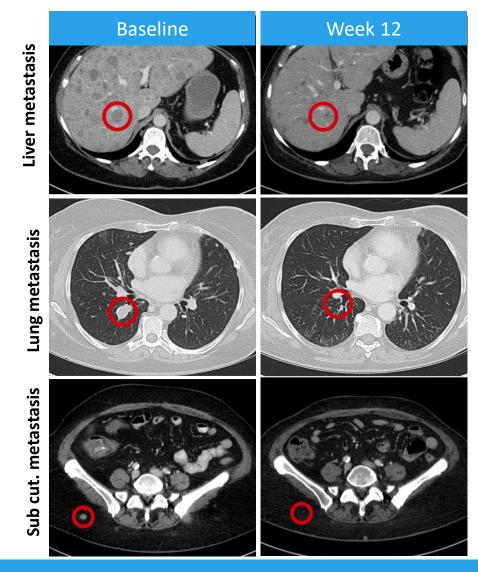


Confirmed Partial Response with Deepening Tumor Regression in Multiple Lesions



- 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

- 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)







Preliminary Findings after Completion of Dose Level 3

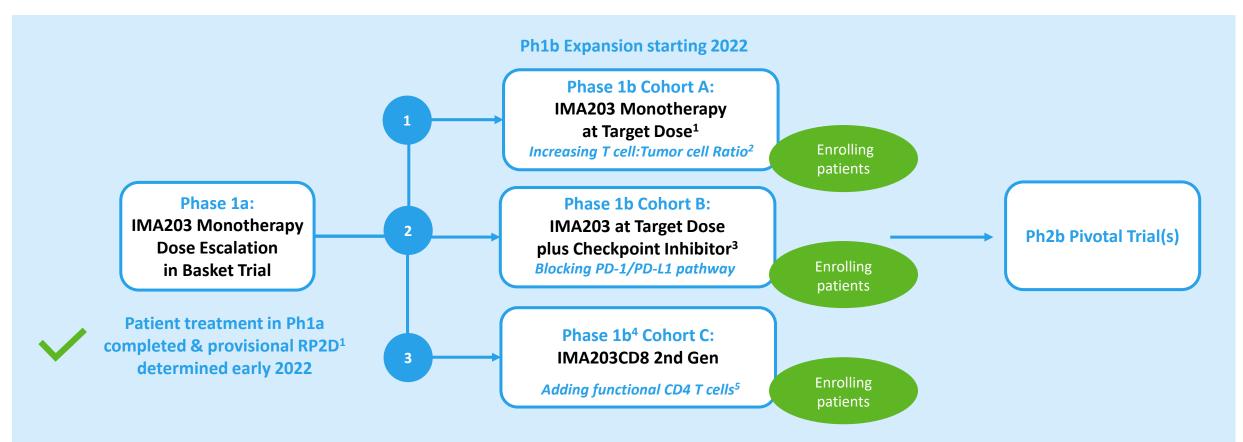
Objective responses observed across multiple tumor types at dose levels below 1 billion T cells originally presumed to be subtherapeutic

SAFETY		CLINIC		BIOLOGICAL ACTIVITY		
3	Dose levels completed, all below 1 bn cells	50%	ORR ³ across all doses and multiple solid cancers	Blood	High T cell engraftment and persistence	
0	Additional DLTs ¹		(8/16 patients)			
0	Grade ≥3 CRS or ICANS ²	62%	ORR ³ at DL2 [*] & DL3 (8/13 patients) – all still dosed below 1 bn cells	Tumor	High T cell infiltration associated with clinical response	
					Data cut-off – 05-Oct-20	

Our Plans to Achieve Long-Lasting Responses with TCR-T cells against PRAME



Addressing Relevant Secondary Resistance Mechanisms to Increase Durability of Response



Each expansion cohort is designed to evaluate the observed objective response rate, demonstrate durability of response & provide the basis for entering registration trials

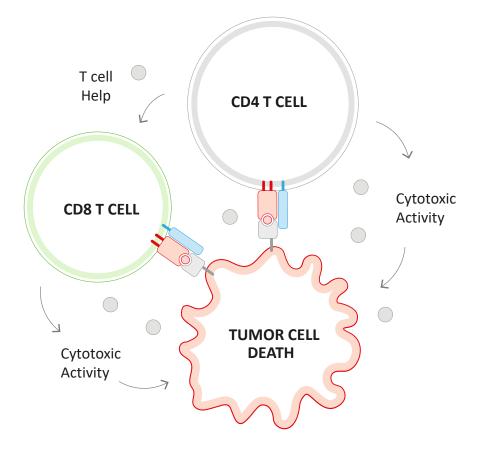


¹ Exploration of higher dose (DL5) planned; ² Demonstrated to be associated with durable response: Locke *et al.* 2020 Blood advances; ³ Opdivo[®] (nivolumab): programmed death-1 (PD-1) immune checkpoint inhibitor; ⁴ Treatment of n=3 patients in DL3 prior to patient treatment at provisional RP2D (DL4); ⁵ Demonstrated to be important for long-term remission: Melenhorst *et al.* 2022 Nature

ACTengine[®] IMA203CD8 – Next-generation TCR-T



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

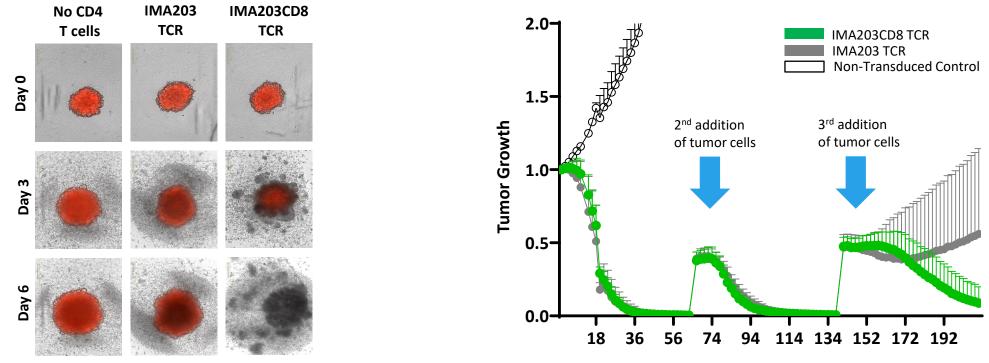


- Engagement of CD4 T cells by CD8 co-transduction reported to boost anti-tumor activity in TCR-T trials
- Recent data from leukaemia patients treated with CAR-T achieving decade-long remissions show that CD4 T cells dominate at the later time points of response¹
- Functional superiority of the **CD8αβ** construct over multiple other CD8 constructs in preclinical experiments
- Proprietary 4-in-1 lentiviral vector to engineer CD4 and CD8 T cells with the PRAME-specific IMA203 TCR and CD8αβ construct (IMA203CD8)

ACTengine® IMA203CD8 – Preclinical Assessment of Anti-Tumor Efficacy



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



3D Spheroid Killing – CD4 T cells

Hours after co-culture

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





ACTengine[®] IMA201 and IMA204 – TCR-T Targeting MAGEA4/8 and COL6A3

ACTengine[®] IMA201 Targeting MAGEA4/8 Key Features



TARGET

HLA-A*02-presented peptide derived from MAGEA4 and/or MAGEA/8

>5-fold higher peptide copy number per tumor cell than a commonly used MAGEA4 target

Naturally and specifically presented on tumors at high target density¹: **100-1,000 copies/cell**

Identified and validated by XPRESIDENT[®] quant. mass spectrometry platform

TCR

High-affinity, specific TCR targeting MAGE4/8

High functional avidity²: EC50 ~10 ng/ml

Identified and characterized by XCEPTOR[®] TCR discovery and engineering platform

CLINICAL DATA

Dose escalation ongoing, target dose level to commence

Too early for assessment of safety or anti-tumor activity

PATIENT POPULATION³

Sarcoma Subtypes – up to 80% Squamous NSCLC – 50% HNSCC – 35% Bladder Carcinoma – 30% Esophageal Carcinoma – 25% Uterine Carcinosarcoma – 25% Ovarian Carcinoma – 20% Melanoma – 20%

Status – 02-June-2022

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

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%

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

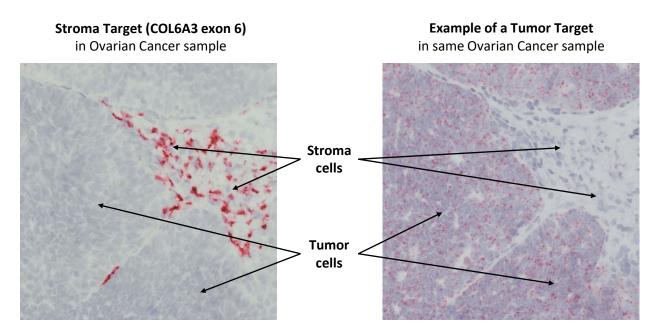
IMA204

¹ Target density: peptide copy number per tumor cell, approximate range representing the majority of tumor samples analyzed; ² Functional avidity: EC50 half maximal effective concentration; ³ Solid cancer indications with 20% or more target expression, Target prevalence for selected cancer indications based on mRNA expression (TCGA and Immatics inhouse data)

ACTengine® IMA204 – High Affinity, CD8-independent TCR



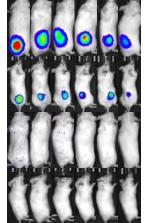
Complete Tumor Eradication *in vitro* & *in vivo*¹ by Affinity-enhanced IMA204 TCR



COL6A3 exon 6 prevalently expressed at high target density in tumor stroma across many solid cancers
 Control
 IMA20

 D7
 Image: Control i

IMA204 TCR



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
- IND-enabling studies are nearing completion

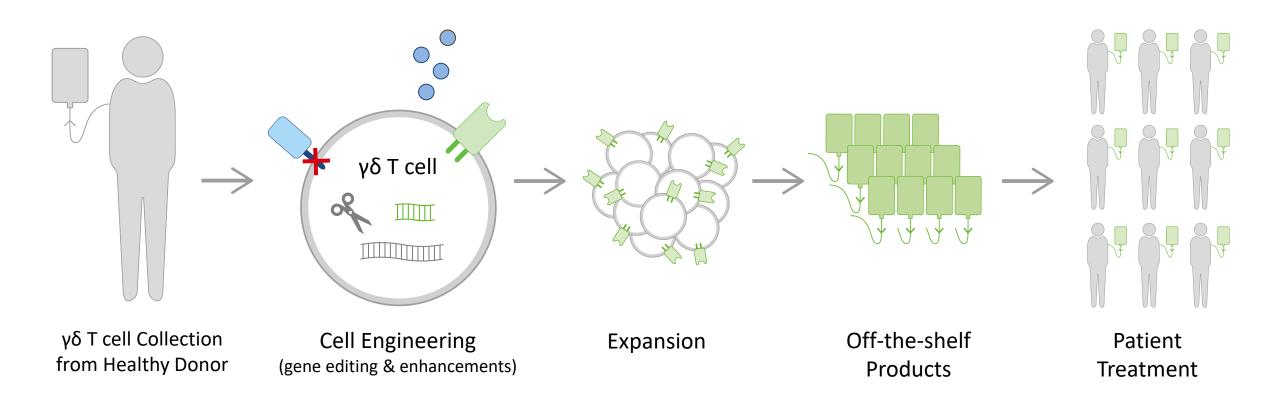




ACTallo® – Our Next-generation Off-the-shelf TCR-T

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 \rightarrow lower cost of goods
- Use of healthy donor material provides standardized quality and quantity of starting material

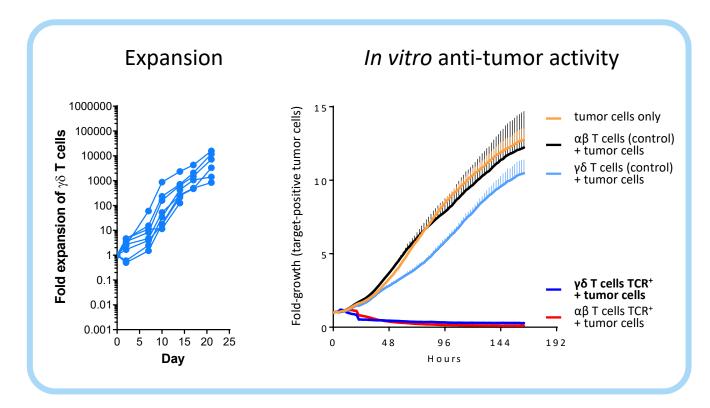


Why $\gamma\delta$ T cells?

$\gamma\delta$ T cells Are Well Suited for an Off-the-shelf Cell Therapy Approach

$\gamma\delta \ T \ cells$

- ✓ 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
- can be effectively redirected using
 αβ TCR or CAR constructs





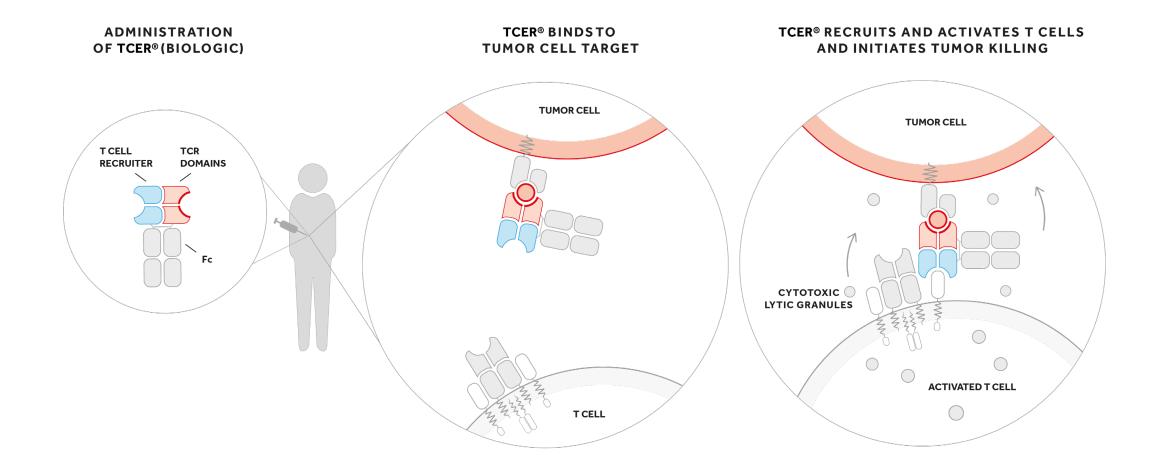


TCER® – TCR Bispecifics



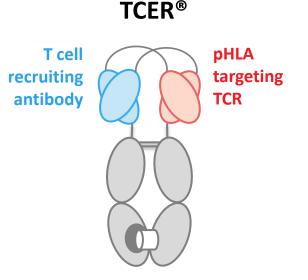
TCER® – Mechanism of Action

Immatics' Off-the-Shelf TCR Bispecifics Approach



TCER® – Immatics' Half-Life Extended Bispecifics





Fc domain (silenced) with KiH technology

TCER[®]

pHLA targeting TCR

- ✓ High-affinity TCR targeting HLA-restricted tumor-specific peptides
- ✓ Broad therapeutic window through XPRESIDENT[®]-guided affinity maturation (>1000x)¹
- Complete tumor eradication in mouse xenograft models at low doses

T cell recruiting antibody

- ✓ Low-affinity 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

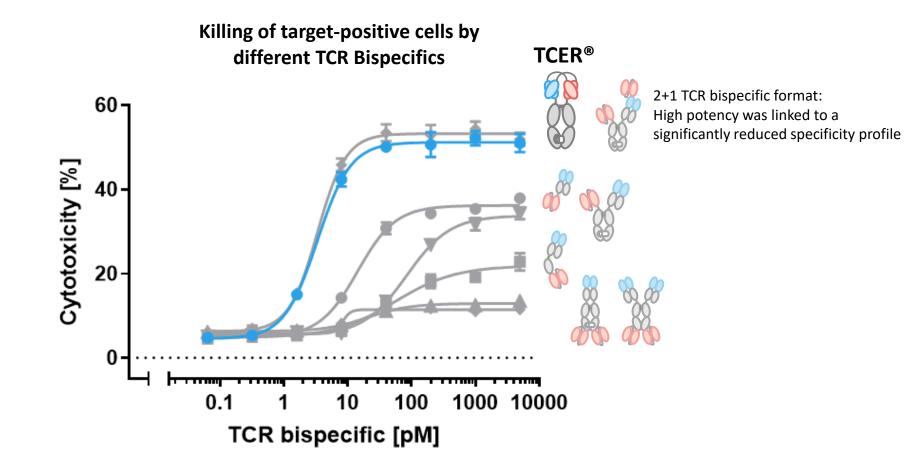
Next-generation TCER® format

- ✓ 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 specificity¹ 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® Portfolio

Building a Pipeline of Next-Gen Half-Life Extended TCR Bispecifics

	IMA401	IMA402	IMA40X			
	MAGEA4/8	PRAME	Undisclosed			
Status	Start of Phase 1 trial in May 2022	Clinical GMP batch targeted in 2022 Phase 1 trial in 2023	TCER [®] engineering and preclinical testing ongoing			
Preclincial Proof-of-concept – Efficacy / Safety	•	Complete remission of estab. tumors in xenograft mouse models at low doses n/a Very broad therapeutic window (reactivity tumor compared to normal cells)				
Half-life	Half-life exte	ended to several days via effector function sile	enced Fc part			
Clinical Development Strategy	AdaDeve	-in-human basket trial ptive design aiming at fast dose escalation elopment strategy includes TCER [®] as add on t ckpoint inhibitor-based standard of care in ea				

Phase 1 Clinical Trial to Evaluate TCER[®] IMA401 Targeting MAGEA4/8



Trial Overview

Biomarker positive patients with recurrent and/or refractory solid tumors

- HLA-A*02:01
- MAGEA4/8 (Immatics' IMADetect[®] test)

Basket trial in indications with high MAGEA4/8 prevalence, e.g. sqNSCLC, SCLC, HNSCC, bladder carcinoma, esophageal carcinoma, ovarian carcinoma, melanoma, uterine carcinosarcoma, sarcoma subtypes

Phase 1a: Dose escalation cohort Phase 1b: Dose expansion cohort(s)

Up to N=50 patients Up to 15 centers

Primary Objective

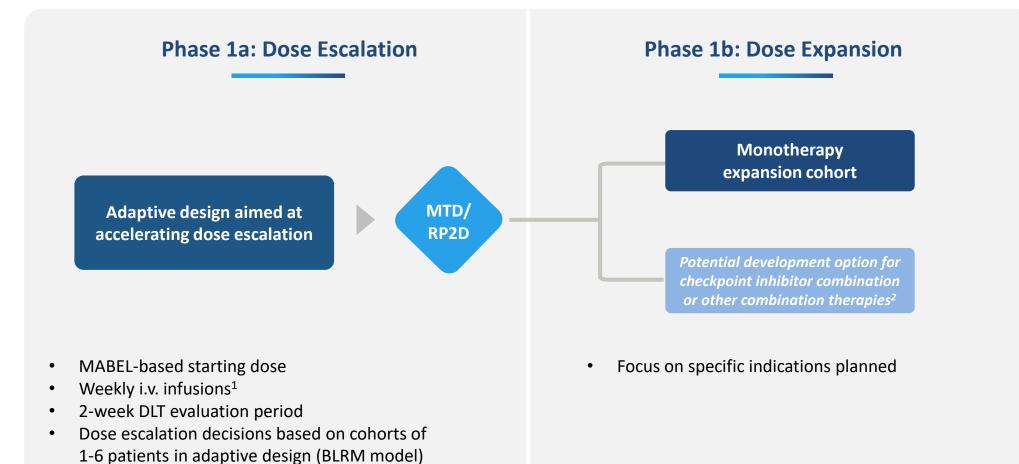
 Determine maximum tolerated dose (MTD) and/or recommended phase 2 dose (RP2D)

Secondary Objectives

- Safety and tolerability
- Initial anti-tumor activity
- Pharmacokinetics

Phase 1 Clinical Trial to Evaluate TCER[®] IMA401 Targeting MAGEA4/8

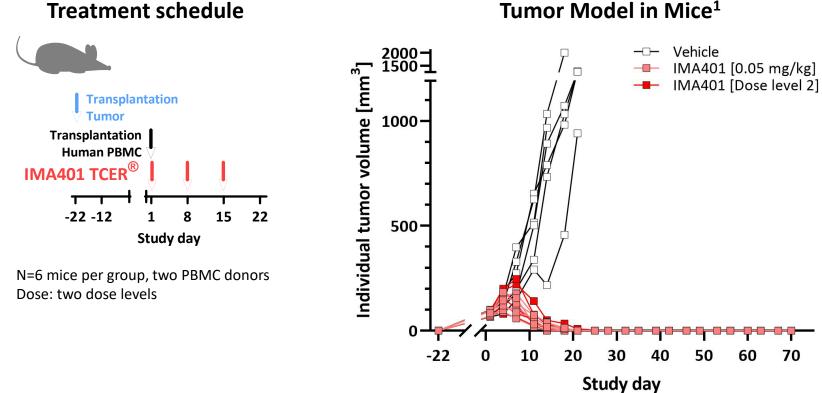




TCER® IMA401 Targeting MAGEA4/8



Product Candidate in Clinical Development with Bristol Myers Squibb



Tumor Model in Mice¹

- Complete remissions observed in all animals even at low IMA401 dose of 0.05 mg/kg ٠
- No detectable outgrowth of tumors during **prolonged observation period of 70 days** ٠

TCER[®]

TCER® IMA402 Targeting PRAME



Preclinical-stage Product Candidate Fully Owned by Immatics

PRAME Target Peptide

- HLA-A*02-restricted PRAME peptide targeted by TCER[®] IMA402 is one of the most frequently expressed intracellular cancer targets for TCR-based therapies
 - Homogenously expressed at high prevalence across multiple solid tumors including melanoma, lung cancer, gynecological cancers (ovarian, breast, uterine) and others

Preclinical Proof-of-Concept Data

- **High** *in vitro* **potency** in killing of tumor cells with physiological PRAME peptide levels
- Favorable safety profile with broad therapeutic window between tumor and normal cell reactivity in vitro
- Consistent tumor regression including complete responses in NOG mice treated at low doses
- Extended serum half-life of several days¹ expected in humans driven by the TCER[®] Fc part

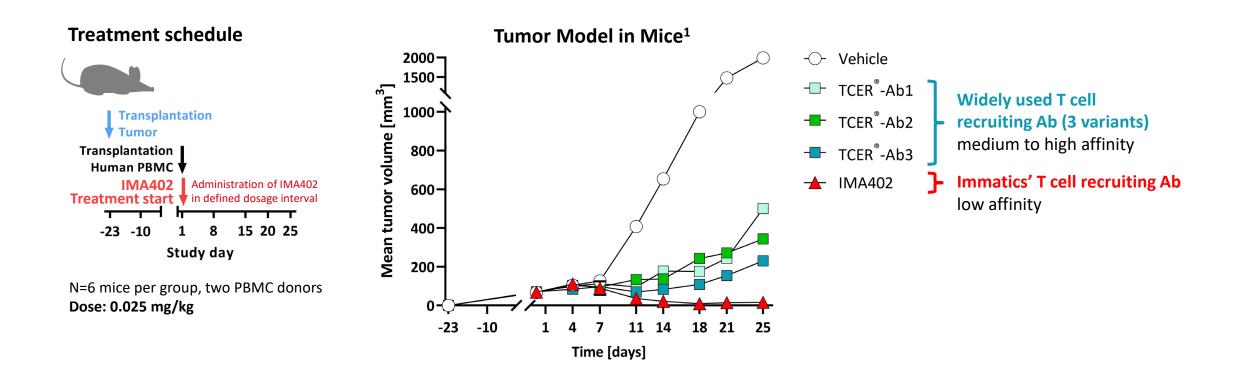
Well Progressing CMC Development

- Current data support antibody-like manufacturability and developability
- GMP process development and IND-enabling activities ongoing
- Manufacturing of the clinical batch for the Phase 1 trial expected in 2H 2022

TCER® IMA402 – Efficacy Assessment in Tumor Model in Mice



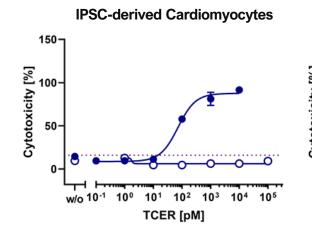
Superior Tumor Control Using a Proprietary, Low-Affinity Recruiter

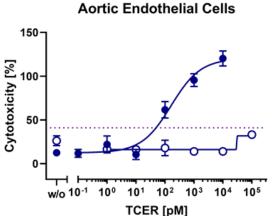


Proprietary, **low-affinity T cell recruiting region** demonstrates superior tumor control compared to analogous TCER[®] molecules designed with higher-affinity variants of a widely used recruiter

TCER® IMA402 – In vitro Safety Assessment with Normal Tissue Cells











normal tissue cell type -0-

Normal Tissue Type	Therapeutic Window (x-fold)
IPSC-derived astrocytes	≥1,000
IPSC-derived GABA neurons	≥1,000
IPSC-derived cardiomyocytes	≥1,000
Human Pulmonary Fibroblasts	≥1,000
Human Cardiac Microvascular Endothelial Cells	≥1,000
Human Dermal Microvascular Endothelial Cells	≥1,000
Human Aortic Endothelial Cells	≥1,000
Human Coronary Artery Smooth Muscle Cells	≥1,000
Human Tracheal Smooth Muscle Cells	≥1,000

- Cytotoxicity against N≥9 different human normal tissue cell types •
- TCER[®] IMA402 shows a minimum of 1,000-fold therapeutic window • between normal tissue cell reactivity and tumor cell reactivity

150-

50·

0

w/o 10⁻¹

10°

10¹

10²

TCER [pM]

10³

104

10⁵



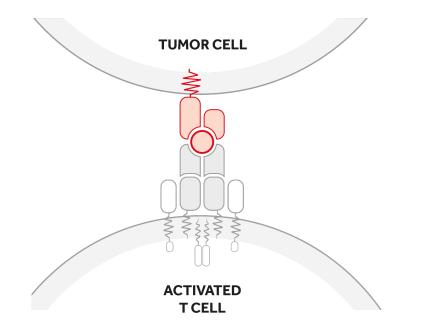


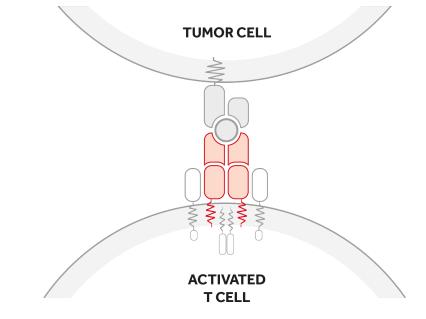
Immatics' Proprietary Target and TCR Discovery Platforms

immatics

True Cancer Targets & Matching Right TCRs

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





True Targets via XPRESIDENT[®] technology platform

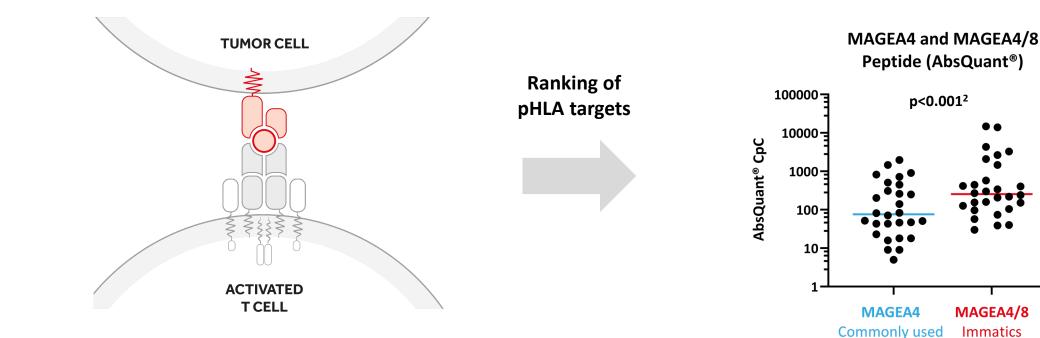
- are naturally presented on tumor tissues as identified by mass-spec
- are absent or presented at only low levels on normal tissues
- are presented at high copy numbers to trigger a pharmacological response

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

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 used MAGEA4 target peptide

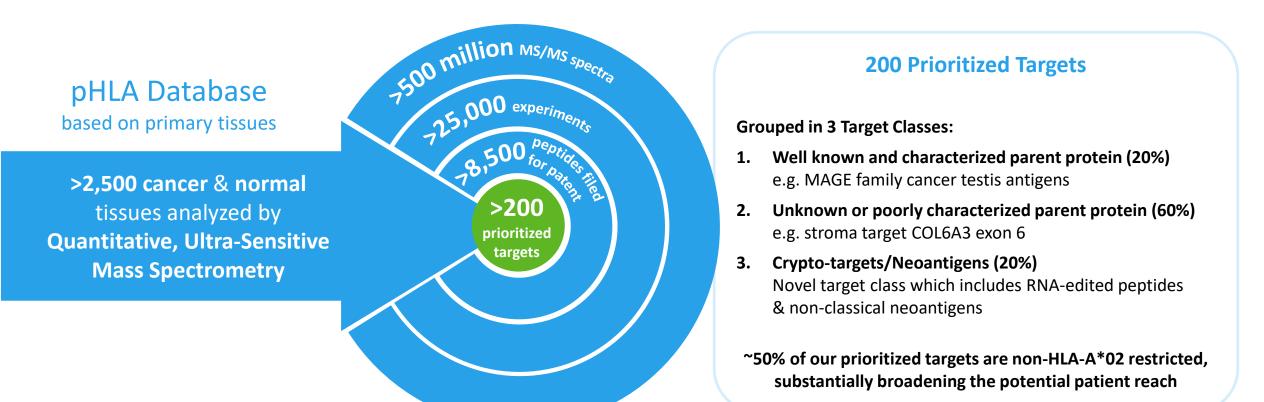
peptide

MAGEA4/8

Immatics

Pool of 200 Prioritized Targets as Foundation for Future Value Generation

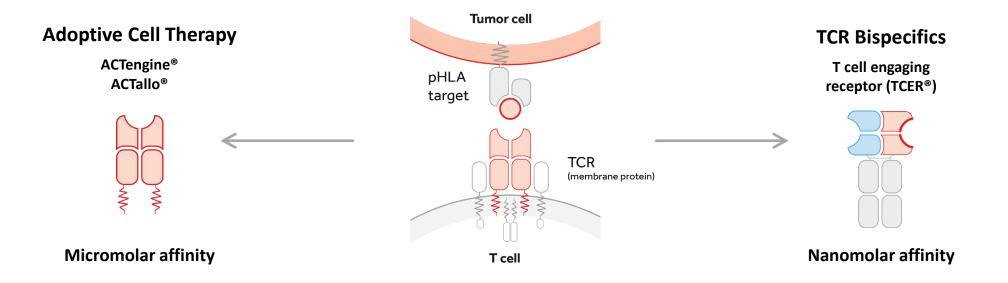




Development of the Right TCR – XCEPTOR® Technology



TCR Discovery and Engineering for ACT and TCR Bispecifics

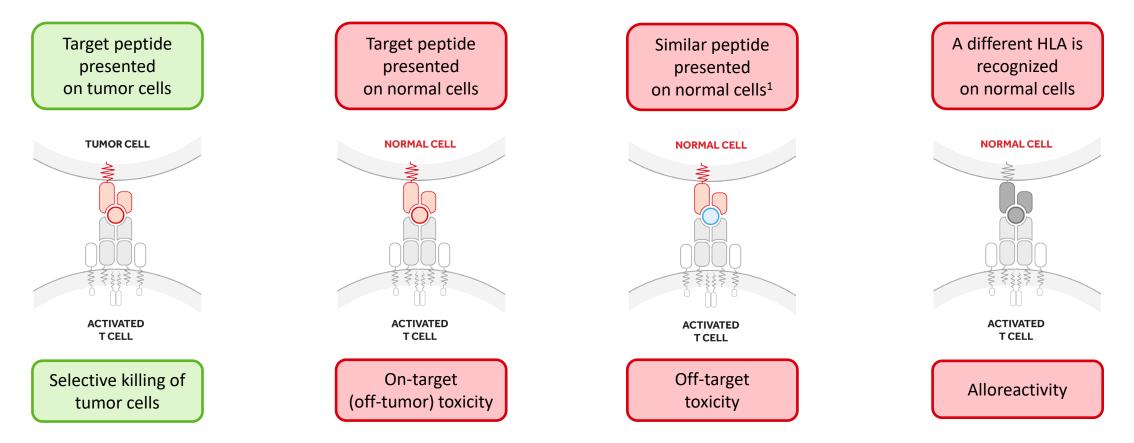


- Fast, efficient and highly sensitive discovery of highly specific, natural TCRs
- Protein engineering capabilities to design and maturate TCRs with increased affinity while retaining specificity
- Early de-selection of cross-reactive TCRs by the unique interplay between Immatics' target and TCR discovery platforms XPRESIDENT[®] and XCEPTOR[®] during TCR discovery¹ and TCR maturation²

Optimal Target Selection & TCR Specificity for Minimizing Safety Risks



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



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





Corporate Information & Milestones

Experienced Global Leadership Team Across Europe and the US





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



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



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

InflaRx)



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



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



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)

Strong, Focused and Highly Integrated Trans-Atlantic Organization







Tübingen, Germany, ~195 FTEs Target & TCR discovery and TCR Bispecifics development



Houston, Texas, ~140 FTEs Cell therapy development and manufacturing



Munich, Germany, ~55 FTEs Various operating functions



Robust IP Portfolio

Immatics' Patent Estate – Territorial Coverage

Cancer targets, TCRs and technology protected by:

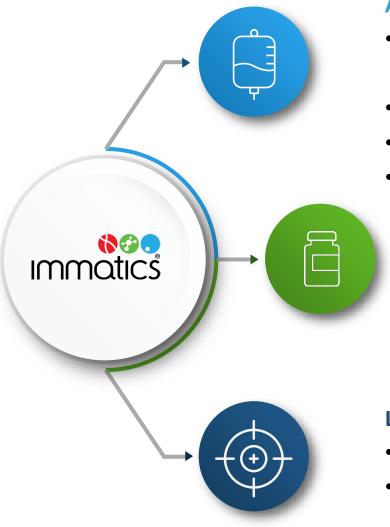
- 5,800 applications and patents filed in all major countries and regions
- >115 patent families
- >2,000 granted patents, thereof >500 granted patents in the US

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

Near-Term Value Drivers and Development Milestones



Clinical Expansion of TCR Bispecifics and the Next-generation of TCR-T



Advance clinical development of ACTengine[®] candidates

- Multiple IMA203 Ph1b expansion cohorts: Monotherapy, checkpoint combination, 2nd-gen approach IMA203CD8
- Next IMA203 monotherapy data read-out in 2H 2022
- Initial data read-out for checkpoint combination, IMA203CD8 YE 2022
- Advance IMA204 to the clinic, submission of IND application YE 2022

Further clinical development of TCER® candidates

- Start of Ph1 trial for IMA401 (MAGEA4/8) in May 2022
- Manufacturing of IMA402 clinical batch in 2H 2022, clinical trial in 2023
- Innovative TCER[®] program(s) IMA40X in preclinical development

Leverage full potential of targeting PRAME

- Focused & accelerated development of IMA203 expansion cohorts
- Develop IMA402, an off-the-shelf TCER®





www.immatics.com

