A photograph of a laboratory setting with a woman in a white lab coat working at a workstation. In the foreground, there are several bottles and a large glass flask. A blue circular graphic is overlaid on the right side of the image, containing white text.

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

ACTengine® IMA200 TCR-T Programs Interim Phase 1a Update

Cedrik Britten, Chief Medical Officer
Harpreet Singh, Chief Executive Officer
November 09, 2021



**Additional late-breaking oral presentation at
SITC Annual Meeting on November 13, 2021,
by Martin Wermke MD, Coordinating Investigator
of Immatics ACTengine® trials in Germany**

Forward-Looking Statements

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Agenda

- Introduction & Summary
- IMA203 Phase 1a Interim Update
- Comprehensive Strategy to Target PRAME
- ACTengine® IMA200 Programs Update
- Summary
- Q&A



Introduction & Summary

Immatics' Proprietary PRAME Peptide-HLA/TCR Pair

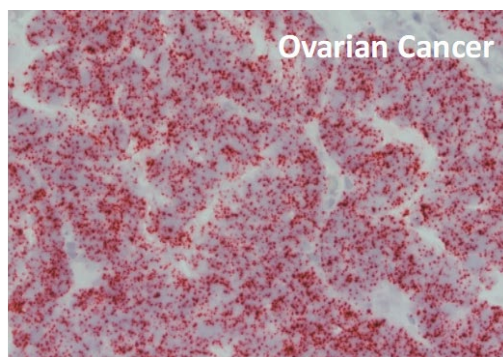
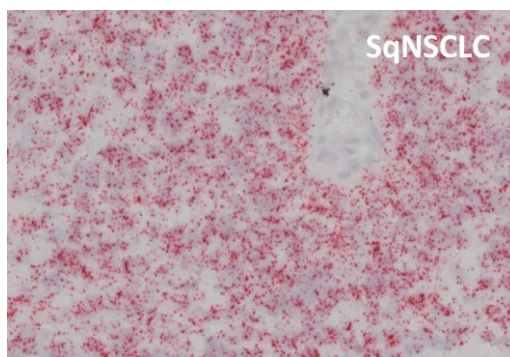
Broadly Expressed Target on Multiple Solid Cancers Combined with Highly Specific TCR

Peptide Target PRAME:

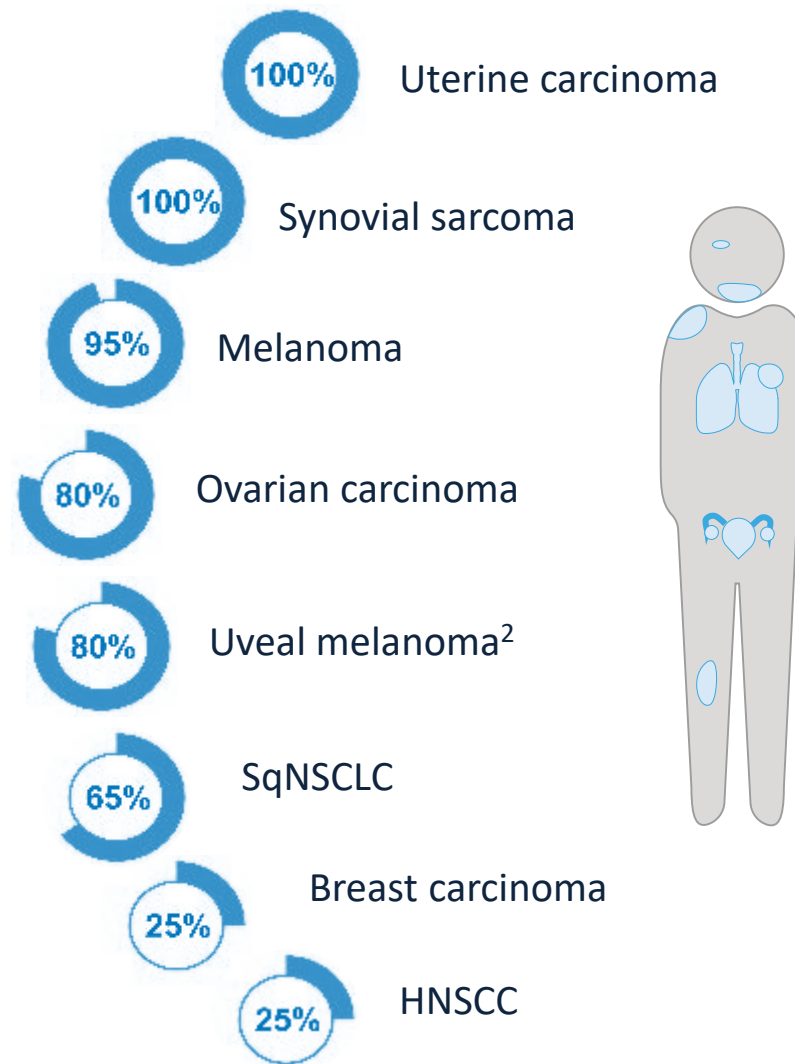
- HLA-A*02-restricted peptide identified by XPRESIDENT® quant. mass spec
- Naturally and specifically presented at high levels (100-1000 copies/cell)
- Homogenously expressed at high prevalence across multiple solid tumors¹

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)



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

¹ DLT: dose-limiting toxicity, since March 17, 2021 (reported DLT at DL2); ² CRS: cytokine release syndrome, ICANS: Immune effector cell-associated neurotoxicity syndrome, both graded by CARTOX criteria (Neelapu *et al.*, 2018);

³ Objective response rate according to RECIST 1.1 including confirmed and unconfirmed partial responses; * Includes patients treated at enrichment cohorts EC1 and EC2

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



IMA203 Phase 1a Interim Update

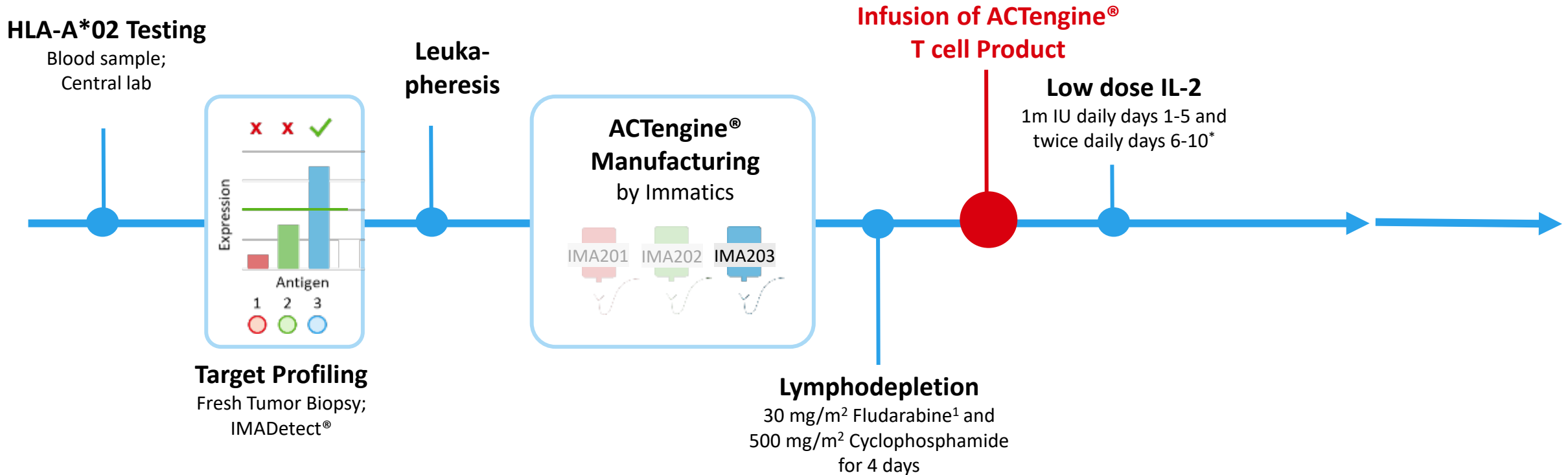
ACTengine® IMA203 – Patient Flow

Screening & Manufacturing Phase

Treatment & Observation Phase

Long Term Follow-up

Safety and efficacy monitoring for 12 months



* 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;

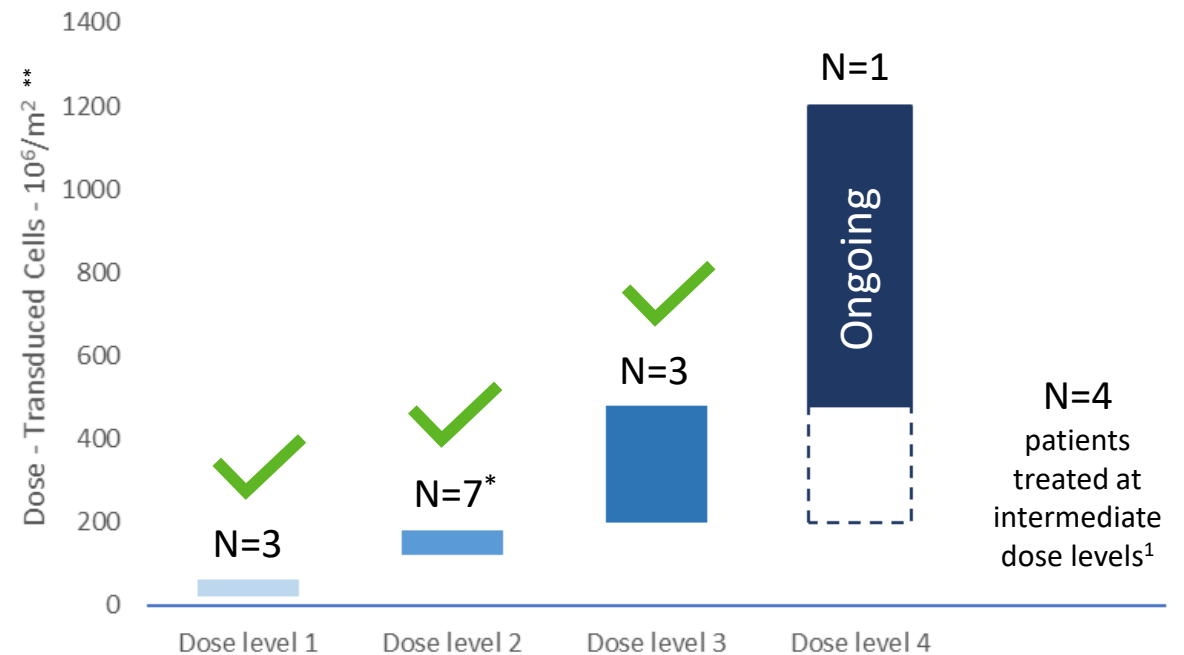
¹ Dose reduction of Fludarabine (from 40mg/m² to 30mg/m²) was introduced prior to treatment of the first patient on dose level 3

ACTengine® IMA203 – Key Objectives & Trial Design

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

¹ Enrichment cohorts EC1 & EC2: patients infused with intermediate doses enabling infusion of patients with medical need during dose escalation observation periods, or in case of lower production yields;

* One patient infused at the same dose level as part of the enrichment cohort; **Dose is shown as transduced viable CD8 T cells per m² total body surface area

ACTengine® IMA203 – Patient Characteristics & Manufacturing

Heavily Pre-Treated Patients Across Multiple Solid Cancers Were Infused

Patient Distribution	Number
Patients in Safety Population ¹	19
Thereof patients infused	18
Patients in Efficacy Population²	16
Synovial Sarcoma	5
Head & Neck Cancer	3
Cutaneous Malignant Melanoma	3
Uveal Melanoma	2
Other (NSCLC, Ovarian, Squamous Cell Carcinoma)	3
Patients with evaluable paired tumor biopsies	10

Efficacy Population (N=16)	Median (range)
Age [years]	53 (18 – 65)
Prior lines of systemic therapies	4 (2-8)
Years from diagnosis	4 (1-25)
Transduced T cells infused [x10 ⁹]	0.33 (0.08 - 0.81)
Manufacturing	
Manufacturing duration ³	6-7d
Overall manufacturing success rate	92%

**16 patients (all dosed below 1 bn transduced cells)
evaluable for clinical and biological activity assessment**

For remaining 2 treated patients first tumor assessment pending as of data cut-off

Data cut-off – 05-Oct-2021

¹ Patients that started lymphodepletion, one patient died from sepsis of unknown origin and did not receive IMA203 T cells;

² Patients with at least one tumor assessment post treatment, 2 patients infused but pending first tumor assessment; ³ Plus currently 14d release testing, expected to be reduced to 7d in 2022

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 – Best Overall Response Assessment (RECIST 1.1)

Multiple Objective Responses in Various Solid Cancer Indications During Dose Escalation

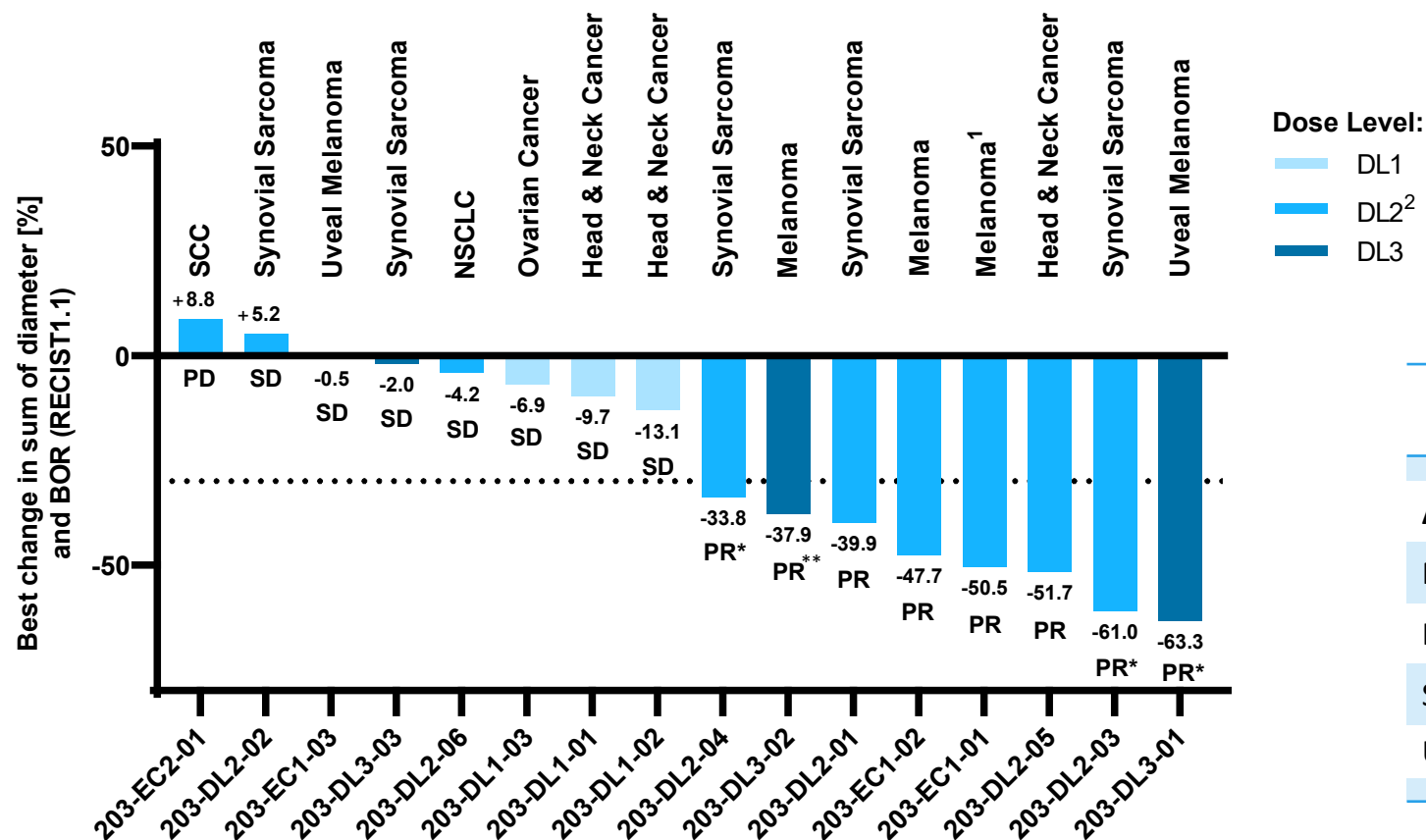
	203-DL1-01	203-DL1-02	203-DL1-03	203-EC1-01	203-EC1-02	203-EC1-03	203-DL2-01	203-DL2-02	203-DL2-03	203-DL2-04	203-DL2-05	203-DL2-06	203-EC2-01	203-DL3-01	203-DL3-02	203-DL3-03	
Median total transduced cells (10 ⁹) ¹	0.11			0.20			0.36						0.36	0.59			
Age (gender)	40 (F)	63 (M)	61 (F)	18 (F)	65 (M)	42 (M)	57 (M)	40 (M)	20 (M)	49 (M)	50 (F)	55 (F)	65 (M)	62 (F)	50 (M)	59 (F)	
Diagnosis	Head and Neck Cancer		Ovarian Cancer	Malig. Melanoma		Uveal Melanoma	Synovial Sarcoma					Head & Neck Cancer	NSCLC	SCC	Uveal Melanoma	Malig. Melanoma	Synovial Sarcoma
Prior lines of systemic therapy	6	4	7	4	7	2	2	3	2	2	3	8	4	4	3	5	
Prior lines of ICI ² treatment	2	-	1	2	4	1	-	-	-	-	-	4	1	2	2	-	
Disease status at infusion	Patients with recurrent and/or refractory solid tumors failing all prior lines of treatment																
Best response RECIST1.1	SD	SD	SD	PR	PR	SD	PR	SD	PR ³	PR ³	PR	SD	PD	PR ³	PR ⁴	SD	
Objective Response Rate per Dose Level	0/3 Objective Responses (0% ORR)			6/10 Objective Responses (60% ORR)										2/3 Objective Responses (67% ORR)			

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

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

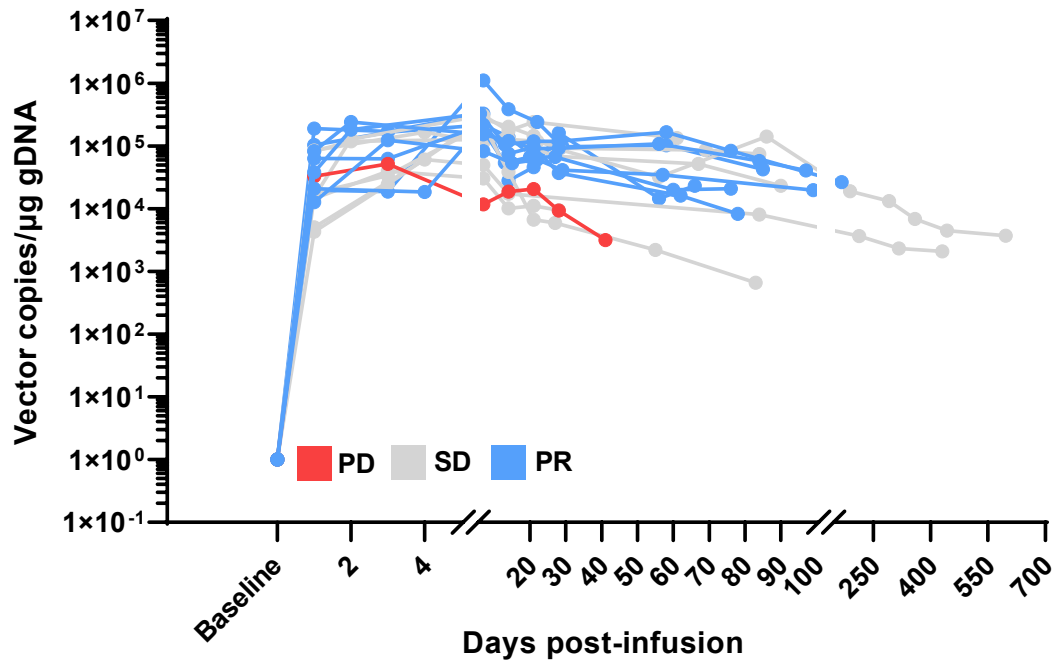
¹ RECIST1.1 response at the timepoint of maximum change of target lesions (week 12): PD due to new lesions (leptomeningeal disease) at week 12

² Patients dosed with DL2, EC1 and EC2; * Confirmed at subsequent scan; ** Confirmation pending as of data cut-off

ACTengine® IMA203 – Engraftment, Persistence & Tumor Infiltration

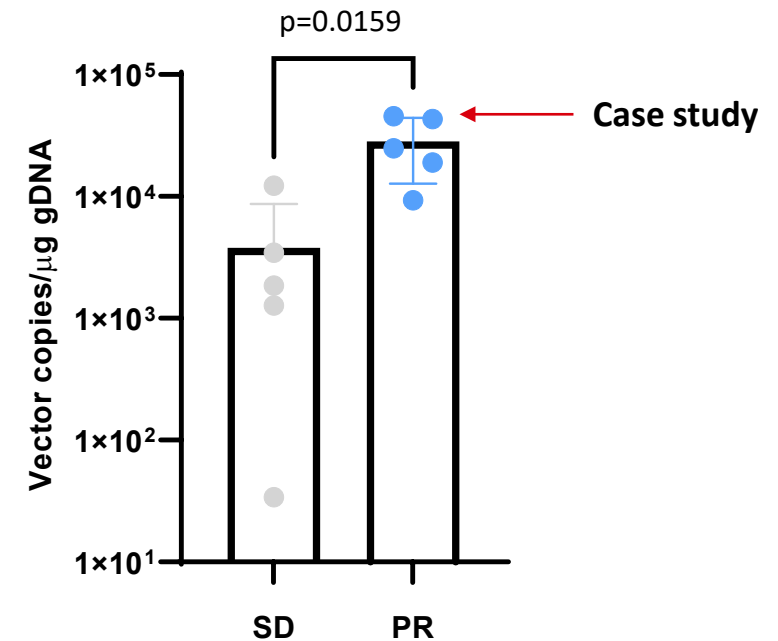
Clinical Responses Consistent with Biological Data

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

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

Confirmed Partial Response with Deepening Tumor Regression in Multiple Lesions

62-year-old female patient

Metastatic uveal melanoma with high tumor burden in multiple organs

Infused at refractory disease after failing 4 prior lines of therapy incl. 2 lines of checkpoint inhibitors

Received **total dose of 0.59 bn** (0.36 bn/m²) transduced cells directed against PRAME target peptide/HLA

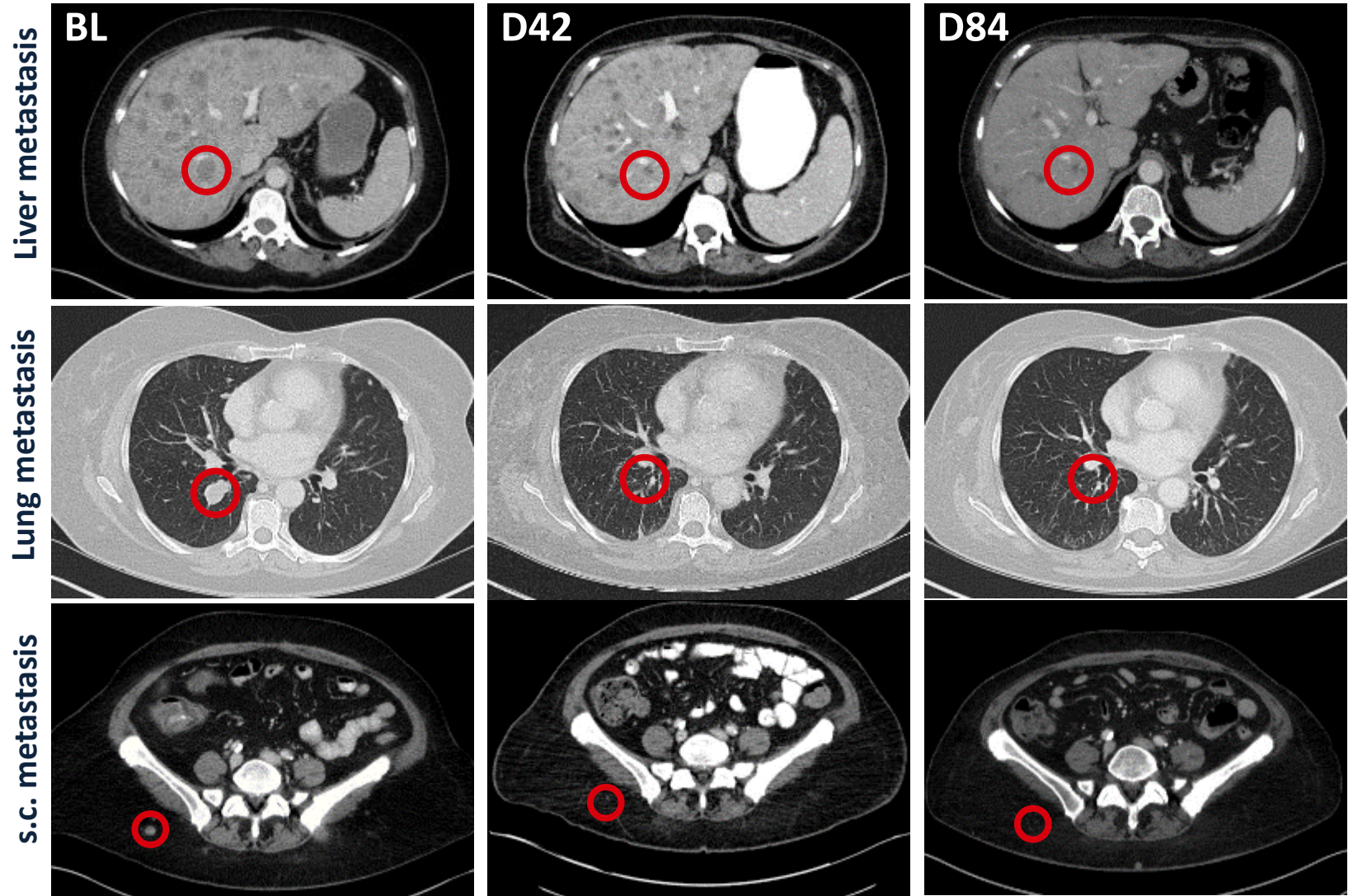
Tumor Response

Best response (RECIST1.1):

PR (confirmed; ongoing as of data cut-off)

Target Lesions decreased at week 6 post treatment to -40%, response deepened at week 12 to -63%

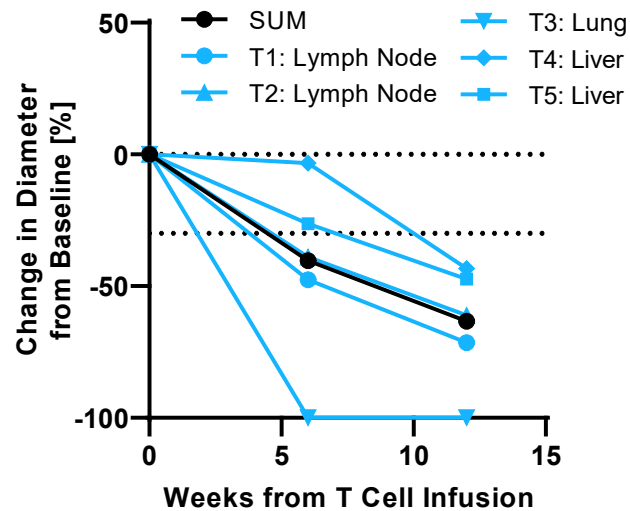
Data cut-off – 05-Oct-2021



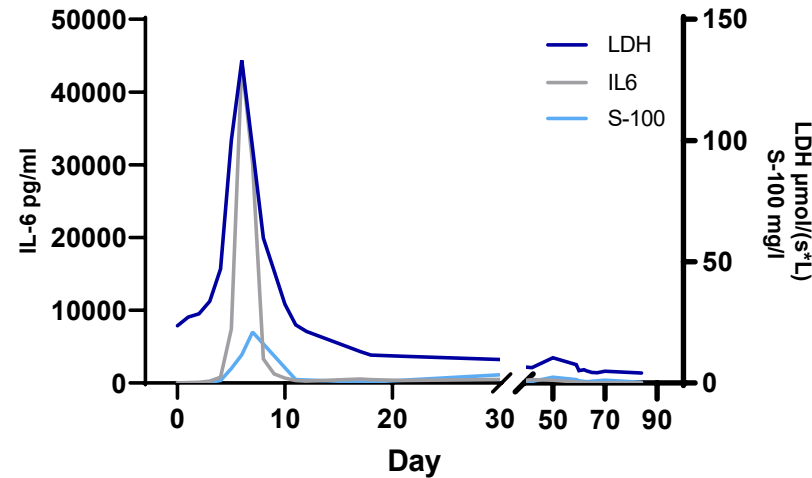
ACTengine® IMA203 – Case Study Patient IMA203-DL3-01

Partial Response Consistent with Biological Data

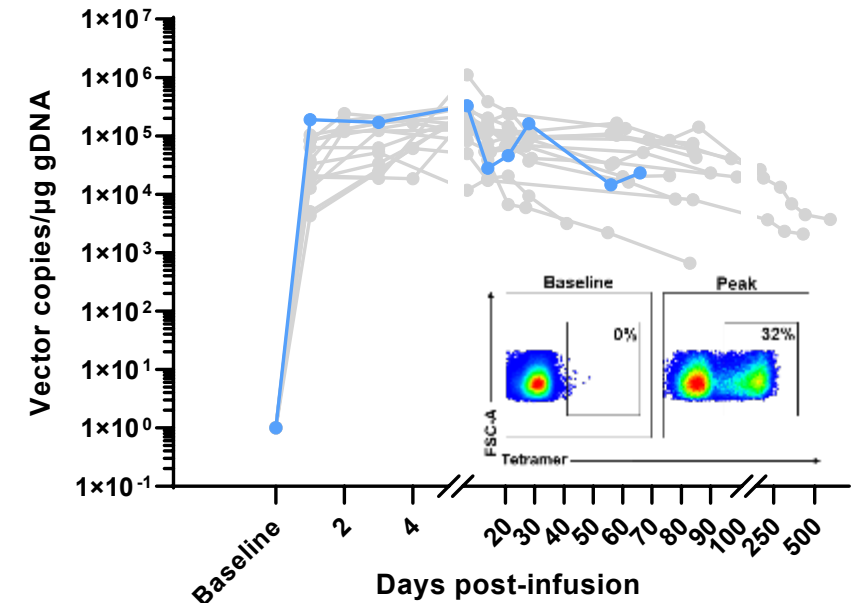
Change in Size of Target Lesions



Serum Biomarkers in Blood¹



T cell Engraftment, Persistence & Tumor Infiltration



- Target Lesions decreased at week 6 post treatment to -40%
- Response deepened at week 12 to -63% (RECIST1.1)

- Initial LDH level reflecting high tumor burden prior to infusion
- Step increase in IL-6, LDH and increase in S-100 indicative of tumor cell killing

- High T cell engraftment and persistence until end of observation.
- At peak 32% of CD8 T cells express IMA203 TCR
- High T cell infiltration into tumor at week 6 post treatment (data on slide 16)

Data cut-off – 05-Oct-2021

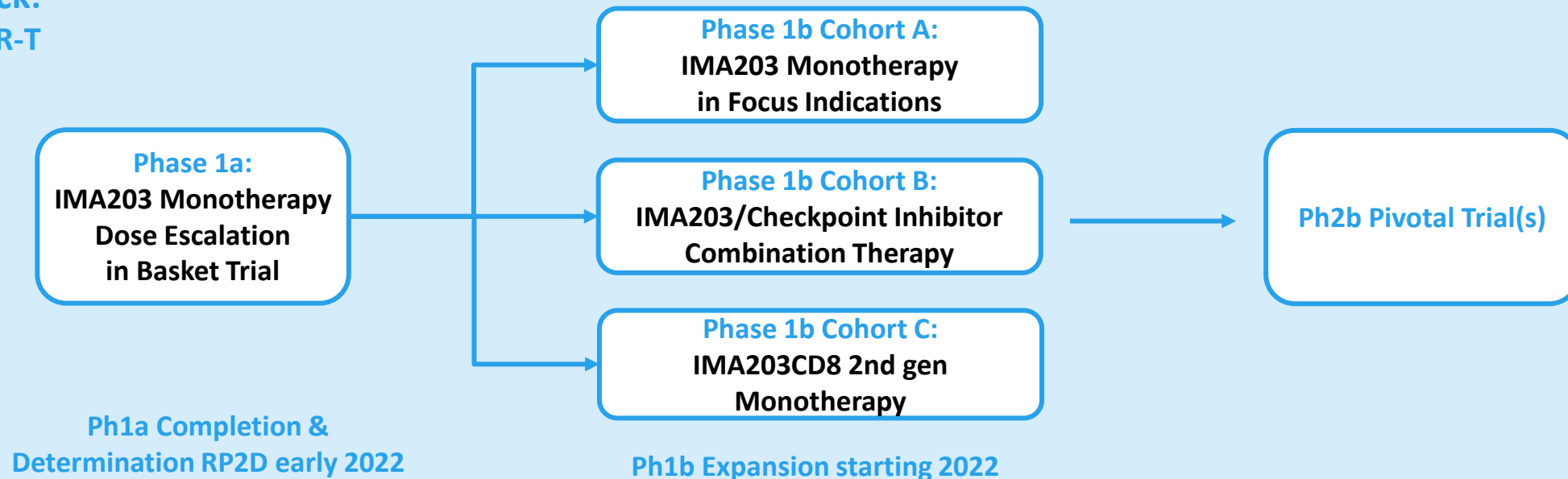


Comprehensive Strategy to Target PRAME

Comprehensive Strategy to Target PRAME

Maximizing PRAME Mediated Clinical Benefit Through ACT and TCR Bispecifics

TCR-T Track: PRAME TCR-T

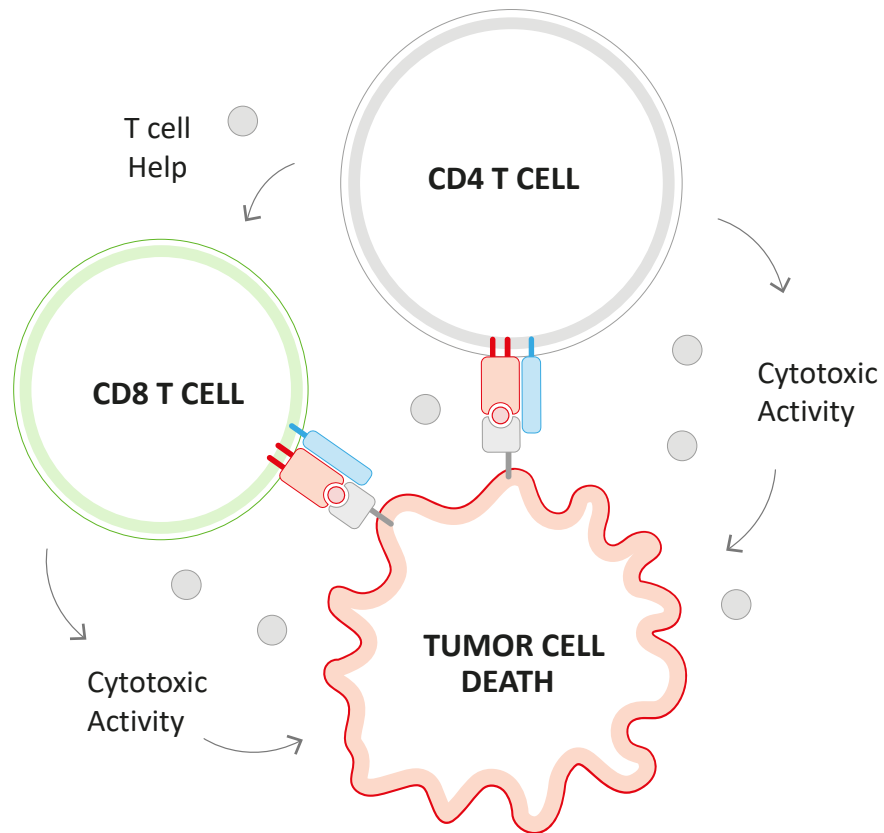



Bispecifics Track: PRAME TCR Bispecific



ACTengine® IMA203CD8 – Second-generation TCR-T

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

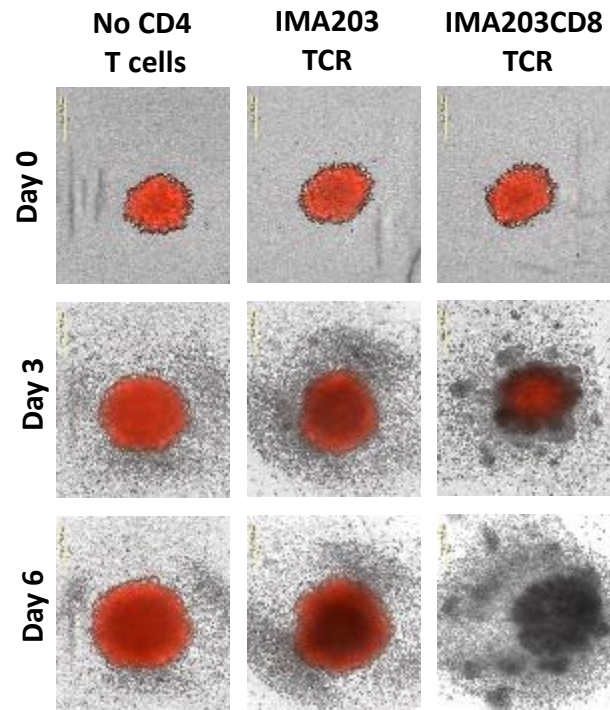


- Engagement of CD4 T cells by CD8 co-transduction reported to boost anti-tumor activity in TCR-T trials
- Functional superiority of a **CD8αβ IMA203** construct (IMA203CD8) over multiple other CD8 constructs in preclinical experiments
 - Poster presentation at SITC, Nov 12, 2021 
- Secured access to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

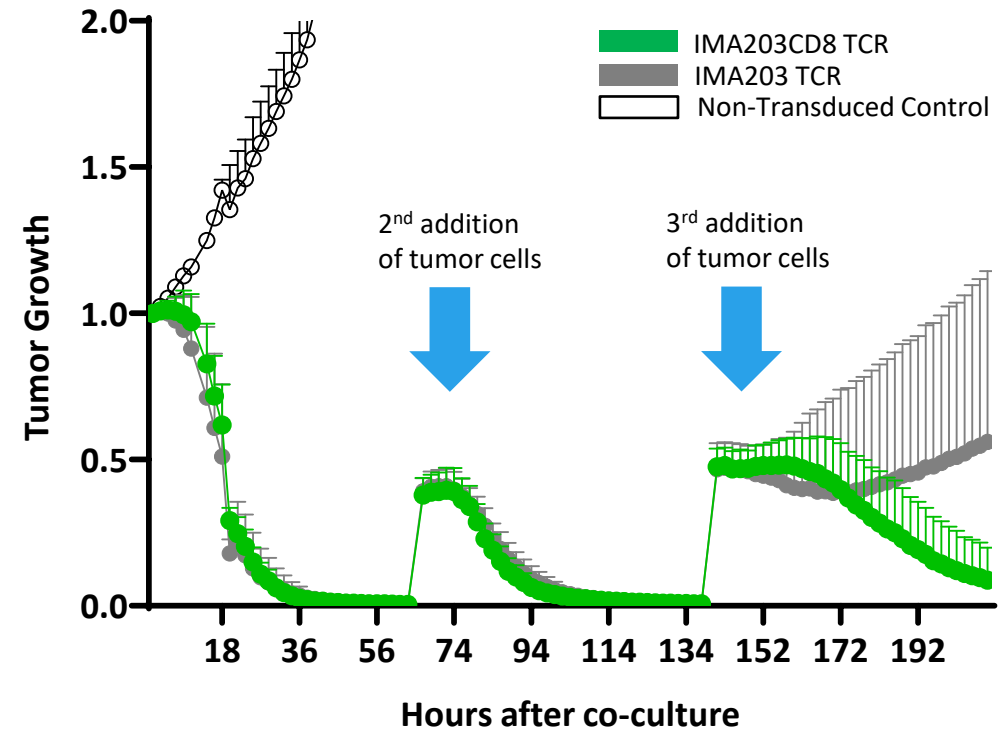
ACTengine® IMA203CD8 – Preclinical Assessment of Anti-Tumor Efficacy

Co-Transduction of CD8 $\alpha\beta$ Enhances Anti-Tumor Activity *in Vitro*

3D Spheroid Killing – CD4 T cells



Serial Killing Assay – CD8 & CD4 T cells

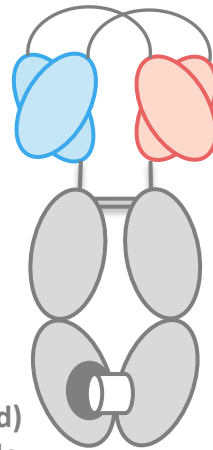


Engagement of CD4 T cells may enhance depth and durability of anti-tumor response and clinical outcome of TCR-T in solid cancer patients

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 CRS¹**
- ✓ **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 PRAME peptide with **unusually high target density³**
- ✓ **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

¹ Based on literature data for other low-affinity recruiters (e.g. Harber *et al.*, 2021, Nature); ² As compared to natural TCR; ³ Compared to other HLA-restricted epitopes;

⁴ Production in mammalian cells (CHO cells); ⁵ Based on preclinical testing



ACTengine® IMA200 TCR-T Programs Update

ACTengine® Programs – Key Features

	IMA201	IMA202	IMA203	IMA204
Cancer Target Peptide	MAGEA4/8 shown to be naturally and specifically presented on native tumor tissues at differentiated high peptide target density ¹	MAGEA1 HLA-A*02-presented peptide derived from	PRAME	COL6A3 exon 6
	100-1,000 copies/cell	50-900 copies/cell	100-1,000 copies/cell	100-700 copies/cell
T cell Receptor (TCR)	Natural TCR ~10 ng/ml	Natural TCR ~15 ng/ml	Pairing-enhanced TCR ~5 ng/ml	Affinity-maturated, CD8-independent TCR ~0.01ng/ml
T cell Product	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			
	7-10 days	7-10 days	7 days	7 days

¹ Applying XPRESIDENT® quantitative mass spectrometry platform; target density: peptide copy number per tumor cell, approximate range representing the majority of tumor samples analyzed;

² Applying XCEPTOR® TCR discovery and engineering platform incl. XPRESIDENT®-guided off-target toxicity and similar peptide screening to minimize off-target reactivity; functional avidity: EC50 half maximal effective concentration

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

¹One DLT in DL2 previously reported in March 2021, fully resolved

ACTengine® Programs – Target Prevalence

	IMA201	IMA202	IMA203	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 targets show 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® IMA201 & IMA202 – Patient Characteristics

Heavily Pre-Treated Patients Were Infused during Dose Escalation

Patient Distribution	Number	Characteristics in Efficacy Population	Median (range)
Patients in Safety Population¹	12	Age [years]	60 (27 – 68)
Patients in Efficacy Population²	12		
Thereof IMA201 infused	2	Prior lines of systemic therapies	5 (3-7)
Thereof at target dose	0		
Thereof IMA202 infused	10	Years from diagnosis	4 (1-8)
Thereof at target dose	1		
		Transduced T cells infused [x10 ⁹]	0.46 (0.09 - 1.90)

IMA201 study currently enrolls patients at dose level 2 (0.3 x 10⁹/m²)

IMA202 study is infusing patients at target dose (1 x 10⁹/m²)

ACTengine® IMA201 & IMA202 – Safety Profile

Treatment-emergent Adverse Events Are Manageable, Transient and Expected for Cell Therapies

TEAEs by maximum severity (N=12)¹

Adverse event	All grades		≥ Grade 3		Adverse event	All grades		≥ Grade 3	
	No.	%	No.	%		No.	%	No.	%
Patients with any adverse event	12	100.0	12	100.0	table continued...				
Adverse Events of Special interest					Cardiac or vascular disorders				
Cytokine release syndrome	11	91.7	0	0.0	Hypotension	4	33.3	0	0.0
ICANS ²	1	8.3	0	0.0	Hypertension	1	8.3	1	8.3
Blood and lymphatic system disorders					General disorders and administration site conditions				
Lymphopenia*	10	83.3	10	83.3	Pyrexia	6	50.0	0	0.0
Neutropenia**	10	83.3	10	83.3	Chills	4	33.3	0	0.0
Anaemia	8	66.7	6	50.0	Fatigue	3	25.0	1	8.3
Thrombocytopenia	8	66.7	6	50.0	Oedema peripheral	2	16.7	0	0.0
Leukopenia*	6	50.0	5	41.7	Gastrointestinal disorders				
Febrile Neutropenia	1	8.3	1	8.3	Nausea	5	41.7	0	0.0
Infections and infestations					Vomiting	2	16.7	0	0.0
Candida infection	1	8.3	1	8.3	Constipation	2	16.7	0	0.0
Infection	1	8.3	1	8.3	Diarrhoea	2	16.7	0	0.0
Pneumonia ³	1	8.3	1	8.3	Investigations				
Urinary tract infection	1	8.3	1	8.3	Alanine aminotransferase increased	2	16.7	0	0.0
Respiratory, thoracic and mediastinal disorders					International normalised ratio increased	2	16.7	0	0.0
Hypoxia	2	16.7	0	0.0	Aspartate aminotransferase increased	2	16.7	0	0.0
Dyspnoea ³	1	8.3	1	8.3	Blood alkaline phosphatase increased	1	8.3	1	8.3
Metabolism and nutrition disorders					Other				
Hypocalcaemia	3	25.0	0	0.0	Rash	3	25	0	0.0
Decreased appetite	2	16.7	1	8.3	Insomnia	2	16.7	0	0.0
					Muscular weakness	1	8.3	1	8.3
					Tumour pain	1	8.3	1	8.3

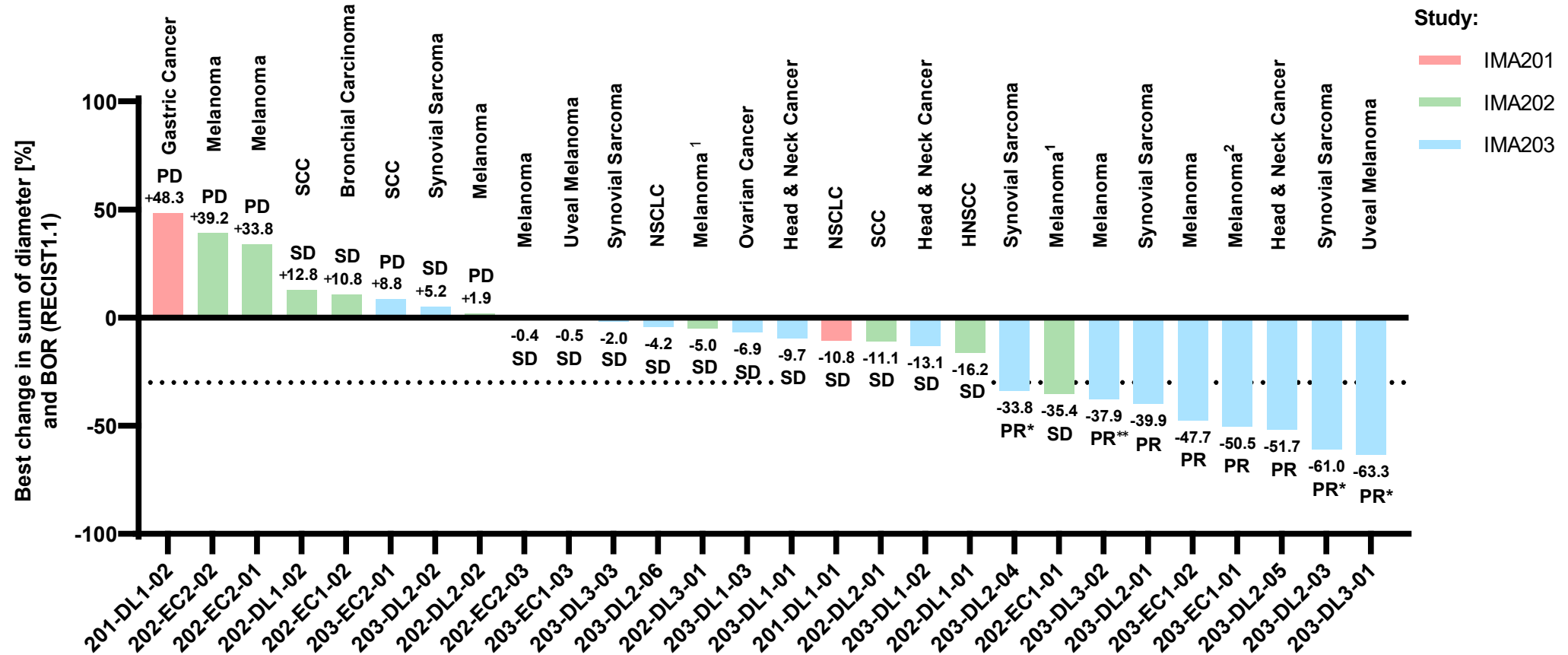
CRS/ICANS:
No ≥ Grade 3 CRS
or ICANS
observed so far

Most Adverse
Events were
associated with
lymphodepletion

¹All treatment-emergent adverse events (TEAEs) with grade 1-2 occurring in at least 2 patients (incidence ≥16.7%) 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 tumor progression and pneumonia 69 days after IMA202 T cell infusion (determined not related to any study medication); *100% of patients experienced transient lymphopenia and leukopenia ≥ Grade 3 (CTCAE v5.0); **91.7% of patients experienced transient neutropenia ≥ Grade 3 (CTCAE v5.0)

ACTengine® IMA201, IMA202, IMA203 – Change in Target Lesions

Disease Control in 23 of 28 Patients Across 3 TCR-T Trials and Multiple Solid Cancers

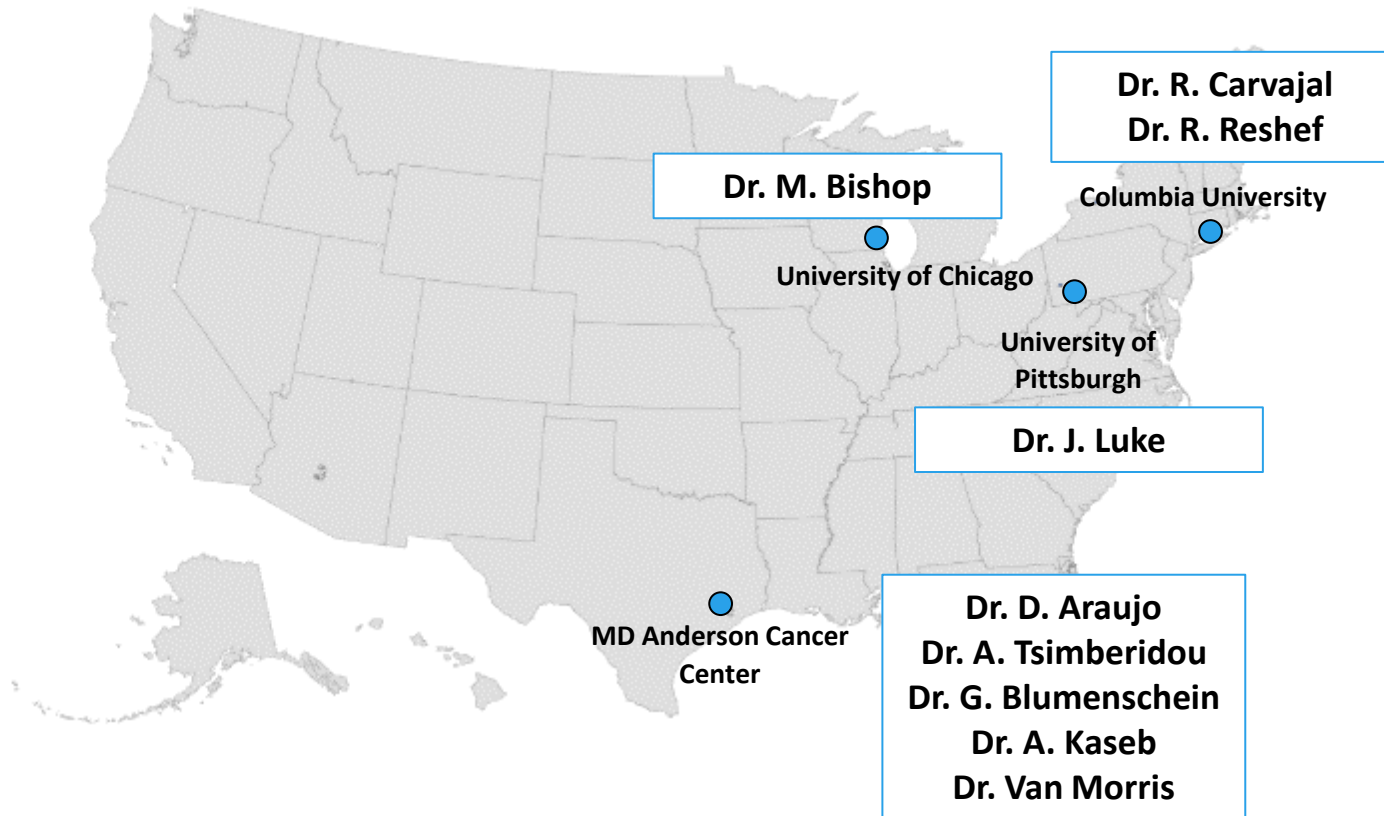


IMA201 & IMA202: Data cut-off – 17-Sep-2021 and IMA203: Data cut-off – 5 Oct-2021

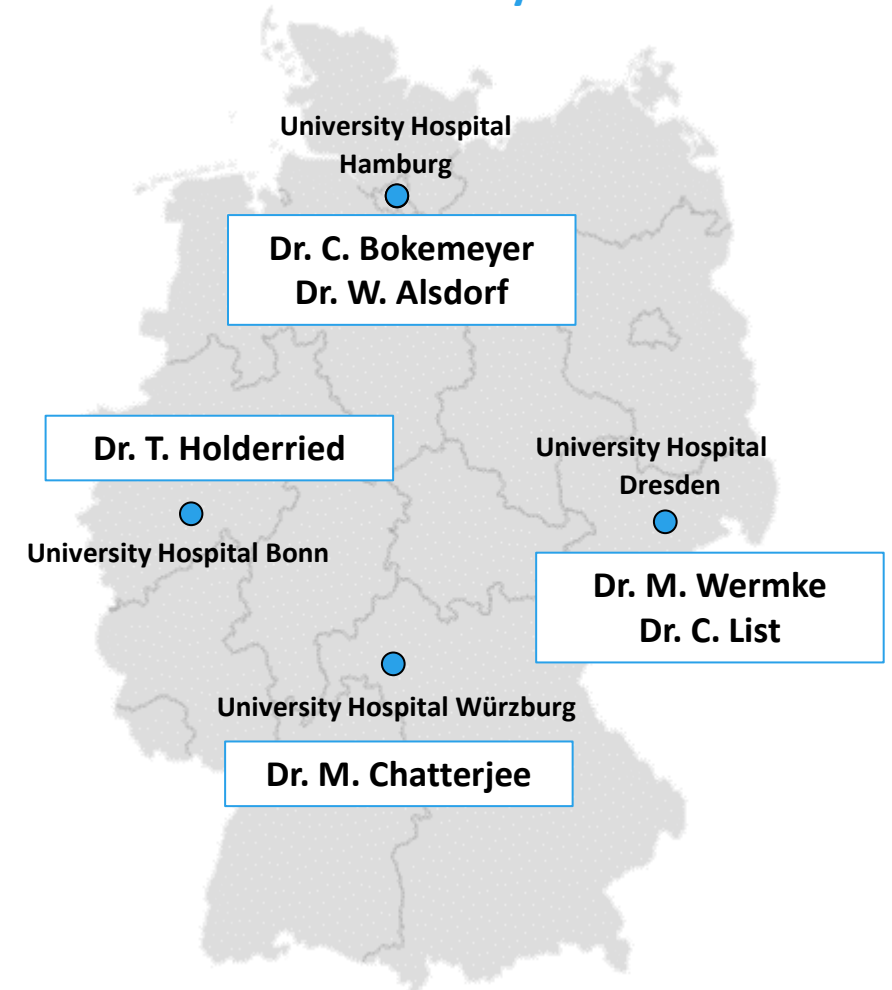
¹ RECIST1.1 response at the timepoint of maximum change of target lesions (week 12): PD due to growth of non-target lesion; ² RECIST1.1 response at the timepoint of maximum change of target lesions (week 12): PD due to new lesions (leptomeningeal disease) at week 12; * Confirmed at subsequent scan; **Confirmation pending as of data cut-off

We are Immensely Grateful to the Patients, Their Families ...

United States



Germany



... and the Investigators at the Clinical Sites



Summary

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

Updated Immatics Pipeline

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)						
	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)						



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CANCER PATIENTS

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