UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM 6-K

REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16 OR 15d-16 UNDER THE SECURITIES EXCHANGE ACT OF 1934

October 10, 2024 Commission File Number: 001-39363

IMMATICS N.V.

Paul-Ehrlich-Straße 15 72076 Tübingen, Federal Republic of Germany (Address of principal executive office)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F:						
Form 20-F	\square	Form 40-F				

INFORMATION CONTAINED IN THIS REPORT ON FORM 6-K

On October 10, 2024, Immatics N.V. (the "Company" or "Immatics") provided updated Phase 1b clinical data on ACTengine IMA203 TCR-T targeting PRAME in melanoma patients and provided an update on SUPRAME, the upcoming Phase 3 trial to evaluate IMA203 in metastatic melanoma patients. IMA203 is Immatics" most advanced TCR-based autologous cell therapy that is directed against an HLA-A*02-presented (human leukocyte antigen) peptide derived from preferentially expressed antigen in melanoma (PRAME), a protein frequently expressed in a large variety of solid cancers. The data cutoff was August 23, 2024.

Patient Baseline Characteristics. As of data cutoff, 28 heavily pretreated patients with metastatic melanoma were treated with IMA203 at the recommended Phase 2 dose ("RP2D") of 1 to 10 billion total TCR-T cells during the Phase 1b dose expansion part of the clinical trial. The treated patient population is composed of patients with a median of 2 lines of prior systemic treatments, consisting of cutaneous melanoma patients (N=13), uveal melanoma patients (N=12), mucosal melanoma patients (N=2) and a patient with melanoma of unknown primary (N=1).

Safety Data. The safety population includes 70^1 patients in the Phase 1a dose escalation and Phase 1b dose expansion parts of the trial across all dose levels and all tumor types. Grade ≥3 treatment-emergent adverse events ("TEAEs") were observed in all patients. As shown in the table below, the most frequent adverse events were expected cytopenias (Grade 1-4) associated with lymphodepletion as well as mostly mild to moderate cytokine release syndrome ("CRS"). Some patients infrequently experienced immune effector cell-associated neurotoxicity syndrome ("ICANS") (Grade 1: 6% of patients, Grade 2: 4% of patients, Grade 3: 4% of patients). No Grade 5 treatment-related adverse events were observed in the safety population, even at doses up to $\sim 10x10^9$ TCR-T cells. The tolerability profile in the Phase 1b melanoma subset is generally consistent with the full IMA203 monotherapy tolerability profile.

¹ All patients who started lymphodepletion. Includes one patient who started lymphodepletion but did not receive IMA203 TCR-T cells and one patient who started lymphodepletion with T cell infusion scheduled after the data cutoff.

Adverse event	≥ Grade 3		
(System organ class, Preferred term)	No.	%	
table continued	NO.	70	
Metabolism and nutrition disorders	7	10.0	
Hypokalaemia	3	4.3	
Hyponatraemia	3	4.3	
Hypophosphataemia	2	2.9	
Dehydration	1	1.4	
Failure to thrive	1	1.4	
Vascular disorders	7	10.0	
Hypertension	6	8.6	
Hypotension	1	1.4	
Renal and urinary disorders	6	8.6	
Acute kidney injury	4	5.7	
Nephritis	1	1.4	
Proteinuria	1	1.4	
Gastrointestinal disorders	5	7.1	
Abdominal pain	3	4.3	
Diarrhoea	1	1.4	
Ileus	1	1.4	
Vomiting	1	1.4	
General disorders and administration site conditions	4	5.7	
Fatigue General physical health deterioration ³	1	1.4	
Pyrexia	1	1.4	
Swelling face	1	1.4	
Skin and subcutaneous tissue disorders	4	5.7	
Rash maculo-papular	3	4.3	
Eczema	1	1.4	
Cardiac disorders	3	4.3	
Atrial fibrillation ⁵	3	4.3	
Eye disorders	2	2.9	
Periorbital oedema	1	1.4	
Ulcerative keratitis	1	1.4	
Injury, poisoning and procedural complications	2	2.9	
Humerus fracture	1	1.4	
Infusion related reaction	1	1.4	
Musculoskeletal and connective tissue disorders	2	2.9	
	1	1.4	
Back pain	1	1.4	
Muscle spasms	1	1.4	

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

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

All TEAEs with ≥ Grade 3 regardless of relatedness to study treatment. Adverse events were coded using the Medical Dictionary for Regulatory Activities. Grades were determined according to National Cancer Institute Common Terminology Criteria of Adverse Events, version 5.0. Grades for CRS and ICANS were determined according to CARTOX criteria (Neelapu et al., 2019). Patients are counted only once per adverse event and severity classification. Based on interim data extracted from open clinical database (23-Aug-2024);

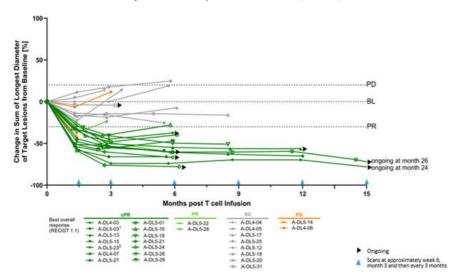
1 Two patients with disease progression after first IMA203 infusion received exploratory second IMA203 infusion. They had these ≥ Grade 3 TEAEs only after second infusion, which are included in the table: First patient: Abdominal pain, Cytokine release syndrome, Diarrhoea, Hypokalaemia, Proteinuria; Second patient: Humerus fracture, Muscle spasms, Neutropenia, Thrombocytopenia; 2 ICANS: Immune effector cell-associated neurotoxicity syndrome; 3 Fatal Adverse events were not considered related to any study drug; 4 Patient died from sepsis of unknown origin and did not receive IMA203 TCR-T cells; 5 DLT: Dose limiting toxicity in phase 1a at DL2 reported on March 17, 2021.

Anti-tumor Activity and Durability. The table below sets forth the observed anti-tumor activity of IMA203 and durability of responses in all melanoma patients in the Phase 1b clinical trial and in cutaneous melanoma patients in the Phase 1b clinical trial. In the melanoma patient population, 7 of the 14 confirmed responses were ongoing as of

data cutoff. For this analysis, the median follow-up for the median duration of response was 9.3 months compared to 3.5 months from the most recent data update in May 2024.

	All melanoma patients in Phase 1b (N=28 ² ,3)	Cutaneous melanoma patients in Phase 1b (N=13 3)
Confirmed Objective Response Rate	54% (14/26)	54% (7/13)
Objective Response Rate	62% (16/26)	62% (8/13)
Disease Control Rate	92% (24/26)	92% (12/13)
Tumor Shrinkage	88% (23/26)	85% (11/13)
Median Duration of Response	12.1 months	12.1 months
Median Progression-Free Survival	6.0 months	6.1 months
Median Overall Survival	Not reached	15.9 months

Response Over Time of IMA203 in Melanoma (N=28 2, 3)



Progression-Free Survival ("PFS") and Overall Survival ("OS"). Manufacturing improvements were implemented prior to the Phase 1b part of the trial to enhance key features of IMA203. As a result, all patients in dose expansion were treated with an updated version of IMA203 that includes a T cell enrichment process using monocyte depletion (negative selection) or CD8/CD4 positive selection. The updated data demonstrate a significant positive shift in median PFS and median OS between melanoma patients treated during Phase 1a and patients treated in Phase 1b, which is shown in the table below.

	Phase 1b dose expansion melanoma patients (N=28)	Phase 1a dose escalation melanoma patients (N=11)
Median Progression-Free Survival	6.0 months	2.6 months
Median Overall Survival	Not reached	6.3 months

In addition, approximately half of all patients in the Phase 1b trial have a deep response (>50% tumor reduction). This subgroup of patients was observed to have a median PFS of more than 1 year, while patients with <50% tumor

 $^{^2\,\}mathrm{First}$ tumor assessment post infusion pending for additional two melanoma patients at data cutoff.

³ Melanoma efficacy population excludes 5 patients treated at DL4 in Phase 1a of the trial as reported in the May 2024 update, based on different manufacturing version used that affects the T cell product.

reduction (including patients with tumor size increase) were still observed with a more than 2 times longer median PFS compared to patients treated in dose escalation with suboptimal doses.

Translational Data. Translational data from patients across Phase 1a and Phase 1b indicate that IMA203 T cells rapidly engrafted in all patients after a single dose and show a persistence of more than two years. Three associations/correlations were observed demonstrating high consistency of dose exposure, biological data and clinical outcome in all patients treated with IMA203 for which samples were available (N=65): First, IMA203 T cell dose is significantly associated with confirmed clinical responses (p=0.02). Second, IMA203 T cell dose is correlated with T cell peak level (c_{max}, r=0.84, p=1.6x10⁻¹⁸). Third, IMA203 T cell peak level (c_{max}, p=0.05) and T cell exposure (AUC_{0-28d}, p=0.05) are associated with confirmed clinical responses.

Development Path and Manufacturing for IMA203 Monotherapy. On September 24, 2024, Immatics completed a Type D meeting with the U.S. Food and Drug Administration ("FDA") to confirm RP2D and the chemistry, manufacturing and controls ("CMC") package as well as discuss the trial design for SUPRAME, the planned registration-enabling Phase 3 randomized-controlled clinical trial for IMA203. Written post-meeting minutes from the FDA have been received.

SUPRAME will evaluate IMA203 targeting PRAME in 360 HLA-A*02:01-positive patients with second-line or later (2L+) unresectable or metastatic melanoma who have received prior treatment with a checkpoint inhibitor. Patients will be randomized 1:1 for IMA203 or investigator's choice of selected approved treatments in the 2L+ setting. Based on the Company's discussions with the FDA, the primary endpoint for full approval will be median PFS. Given the expected PFS of 2-3 months in this patient population, as well as the PFS of 6 months observed in the data from the IMA203 Phase 1b trial, the Company has determined that utilizing median PFS as the primary endpoint is the fastest pathway to seeking full approval and presents a more attractive commercial positioning as compared to objective response rate ("ORR"). Secondary endpoints for the trial will include ORR, safety, duration of response, no overall survival detriment and patient-reported outcomes. A pre-specified interim analysis is planned for early 2026.

The SUPRAME Phase 3 trial is planned to run globally with sites in the United States and Europe with the initial goal of seeking Biologics License Application ("BLA") approval in the United States. On October 2, 2024, Immatics also completed a meeting with the Paul Ehrlich Institute (PEI), the German regulatory authority, and determined the same trial design for conducting the clinical trial in Germany.

The SUPRAME Phase 3 trial is on track to commence in December 2024 and patient enrolment is forecasted to be completed in 2026. The Company aims to submit a BLA in early 2027 for full approval.

Immatics' late-stage clinical cell therapy development is supported by its differentiated manufacturing related to timeline, capabilities and facilities. IMA203 cell therapy products are manufactured within 7 days, followed by a 7-day QC release testing at a success rate of >95% to reach the target dose. The Company has also completed construction of a ~100,000 square foot research and development and good manufacturing practices ("GMP") manufacturing facility with a modular design for efficient and cost-effective scalability intended to serve early-stage and registration-enabling trials, as well as commercial supply. The new site is expected to start GMP manufacturing of cell therapy products in early 2025. Meanwhile, the existing GMP facility, which is run in collaboration with UT Health, will remain active until the end of 2025.

* * *

In connection with the foregoing, the Company issued a press release, a copy of which is attached hereto as Exhibit 99.1, and provided a presentation, a copy of which is attached hereto as Exhibit 99.2, and made available an updated corporate presentation, a copy of which is attached hereto as Exhibit 99.3.

Certain statements in this report 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 timing, outcome and design of clinical trials, the nature of clinical trials (including whether such clinical trials will be registration-enabling), the timing of IND or CTA filing for pre-clinical stage product candidates, the timing of BLA filings for clinical stage product candidates, estimated market opportunities of product candidates, manufacturing timetables, capacity and success

rates, the Company's focus on partnerships to advance its strategy, and other metrics are forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as "may", "should", "expect", "plan", "target", "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 by 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 Annual Report on Form 20-F and other filings with the Securities and Exchange Commission (SEC). Nothing in this report 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. The Company undertakes no duty to update these forward-looking statements. All the scientific and clinical data presented within this report are — by definition prior to completion of the clinical trial and a clinical study report — preliminary in nature and subject to further quality checks including customary source data verification.

INCORPORATION BY REFERENCE

This Report on Form 6-K (other than Exhibits 99.1, 99.2 and 99.3 hereto) shall be deemed to be incorporated by reference into the registration statements on Form F-3 (Registration Nos. 333-240260 and 333-274218) of Immatics N.V. and to be a part thereof from the date on which this report is filed, to the extent not superseded by documents or reports subsequently filed or furnished.

EXHIBIT INDEX

Exhibit No.	Description
<u>99.1</u>	Press release dated October 10, 2024
<u>99.2</u>	Presentation dated October 10, 2024
99.3	Corporate presentation dated October 10, 2024

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

IMMATICS N.V.

Date: October 10, 2024

By: /s/ Harpreet Singh
Name: Harpreet Singh

Title: Chief Executive Officer



PRESS RELEASE

Immatics Announces Updated Phase 1b Clinical Data on ACTengine[®] IMA203 TCR-T Targeting PRAME in Melanoma Patients and Provides Update on Upcoming SUPRAME Phase 3 Trial

Company to host conference call and webcast today, October 10, at 9:00 am EDT/3:00 pm CEST

- Company announces updated Phase 1b clinical data on ACTengine[®] IMA203 targeting PRAME in 28 heavily pretreated metastatic melanoma patients with substantially enhanced maturity compared to the last data update in May 2024 and provides the first report on progression-free survival (PFS) and overall survival (OS)
- · Based on the Phase 1b data, the Company will proceed directly to a registration-enabling Phase 3 trial
- Regulatory pathway and clinical trial design for IMA203 finalized following FDA Type D meetings and meeting with the Paul Ehrlich Institute (PEI); RP2D and CMC package confirmed
- · IMA203 continues to maintain a favorable tolerability profile in patients in Phase 1a and Phase 1b treated across all dose levels
- · IMA203 demonstrates a confirmed objective response rate of 54% with median duration of response of 12.1 months in Phase 1b
- · Median PFS is 6 months, comparing favorably to the IMA203 Phase 1a dose escalation median PFS of 2.6 months; patients with deep responses show median PFS of more than one year; median OS not reached
- Phase 3 trial, "SUPRAME," will enroll 360 patients with unresectable or metastatic melanoma post treatment with a checkpoint inhibitor (2L+) and will randomize patients 1:1 for treatment with IMA203 or investigator's choice
- Primary endpoint for full approval will be median PFS, which constitutes the fastest pathway to registration in this patient population

Immatics Press Release October 10, 2024 1 | 8



- SUPRAME Phase 3 trial is on track to commence in December 2024; enrollment forecasted to be completed in 2026 with a pre-specified interim analysis planned for early 2026
- · Conference call and webcast can be accessed here

Houston, Texas and Tuebingen, Germany, October 10, 2024 – Immatics (NASDAQ: IMTX, "Immatics" or the "Company"), a clinical-stage biopharmaceutical company active in the discovery and development of T cell-redirecting cancer immunotherapies, today announced updated Phase 1b clinical data on ACTengine PRAME in melanoma patients and provided an update on SUPRAME, the upcoming Phase 3 trial to evaluate IMA203 in metastatic melanoma patients.

The data from the ongoing Phase 1b trial will be presented on Friday, October 11, 2024, by Martin Wermke, M.D., during Plenary Session 1, Developmental Immunotherapy (Cellular Immunotherapy, Vaccines, & New Checkpoints) at the Society for Melanoma Research Congress 2024. The IMA203 data slides are accessible in the 'Events & Presentations' section of the Investor & Media section of the Company's website. The conference presentation will include additional patient cases.

"Observing significant tumor shrinkage and durable responses combined with meaningful progression-free survival and overall survival outcomes after a single treatment with ACTengine[®] IMA203 in this patient population that have all exhausted multiple lines of systemic treatments illustrates the impact IMA203 can have on metastatic melanoma patients," said Martin Wermke, M.D., Coordinating Investigator of the ACTengine[®] IMA203 TCR-T trial. "These results now affirm the therapeutic potential of IMA203 and provide a strong rationale for the expedited late-stage clinical development of this product candidate."

"We are enthusiastic about the clinical data as they confirm our conviction in the durability and long-term efficacy of ACTengine[®] IMA203, demonstrated by the favorable median progression-free survival for patients in the dose expansion cohort. I would like to highlight that a subgroup of 12 out of 26 patients showed more than 50% reduction of tumor lesions and a median PFS of 13.4 months," said Cedrik Britten, M.D., Chief Medical Officer at Immatics. "We believe the presentation of this data set in conjunction with our recent meeting with the FDA, which has resulted in a pivotal trial design with progression-free survival as the primary endpoint for full approval, positions us to advance the development of IMA203 in the second-line or later metastatic melanoma setting."

Patient Population and Clinical Data Summary - ACTengine® IMA203 Monotherapy Phase 1b Trial

Immatics Press Release October 10, 2024 2 | 8



Patient population: Heavily pretreated metastatic melanoma patients

As of August 23, 2024, 28 heavily pretreated patients with metastatic melanoma were treated at the recommended Phase 2 dose (RP2D, 1 to 10 billion total TCR-T cells) with IMA203 during the Phase 1b dose expansion part of the clinical trial. The treated patient population is composed of patients with a median of 2 lines of prior systemic treatments, consisting of cutaneous melanoma patients (N=13), uveal melanoma patients (N=12), mucosal melanoma patients (N=2) and a patient with melanoma of unknown primary (N=1).

Safety: Favorable tolerability profile demonstrated across all dose levels in Phase 1a and Phase 1b

IMA203 monotherapy has maintained a favorable tolerability profile with no treatment-related Grade 5 adverse events in the safety population (N=70¹ Phase 1a and Phase 1b patients across all dose levels and all tumor types), even at doses up to ~10x10⁹ TCR-T cells.

The most frequent adverse events were expected cytopenias (Grade 1-4) associated with lymphodepletion as well as mostly mild to moderate cytokine release syndrome (CRS). Some patients infrequently experienced ICANS (Grade 1: 6%, Grade 2: 4%, Grade 3: 4%).

The full IMA203 monotherapy tolerability profile is also generally consistent with that observed in the Phase 1b melanoma subset.

Anti-tumor activity and durability: Durable objective responses in melanoma patients at RP2D3

This data update adds substantial maturity to the most recent data update from May 2024 (data cut-off on April 25, 2024). The median follow-up for the median duration of response for this analysis was 9.3 months compared to 3.5 months in May 2024.

Immatics Press Release October 10, 2024 3 | 8

¹ All patients who started lymphodepletion. Includes one patient who started lymphodepletion but did not receive IMA203 TCR-T cells and one patient who started lymphodepletion with T cell infusion scheduled after data-cut.



	All melanoma patients in Phase 1b (N=28 ^{2,3})	Cutaneous melanoma patients in Phase 1b (N=13 ³)
Confirmed Objective Response Rate	54% (14/26)	54% (7/13)
Objective Response Rate	62% (16/26)	62% (8/13)
Disease Control Rate	92% (24/26)	92 % (12/13)
Tumor Shrinkage	88% (23/26)	85% (11/13)
Median Duration of Response	12.1 months	12.1 months
Median Progression-Free Survival	6.0 months	6.1 months
Median Overall Survival	Not reached	15.9 months

Progression-free survival (PFS) and overall survival (OS): Significant shift in PFS and OS between Phase 1a dose escalation to Phase 1b dose expansion in melanoma patients

Manufacturing improvements were implemented prior to the Phase 1b part of the trial to enhance key features of IMA203. As a result, all patients in dose expansion were treated with an updated version of IMA203 that includes a T cell enrichment process using monocyte depletion (negative selection) or CD8/CD4 positive selection.

The data presented today demonstrate a significant positive shift in median PFS and median OS between melanoma patients treated during Phase 1a and patients treated in Phase 1b.

	Phase 1b dose expansion melanoma patients (N=28)	Phase 1a dose escalation melanoma patients (N=11)
Median Progression-free Survival	6.0 months	2.6 months
Median Overall Survival	Not reached	6.3 months

 $^{^{2}}$ First tumor assessment post infusion pending for additional two melanoma patients at data-cut.

Immatics Press Release October 10, 2024 4 | 8

³ Melanoma efficacy population excludes 5 patients treated at DL4 in Phase 1a of the trial as reported in the May 2024 update, based on different manufacturing version used that affects the T cell product. See the IMA203 data presentation slides available on the Immatics website for more detailed information and a patient population flow chart.



In addition, approximately half of all patients in the Phase 1b trial have a deep response (>50% tumor reduction). This subgroup of patients was observed to have a median PFS of more than one year, while patients with <50% tumor reduction (including patients with tumor size increase) were still observed with a more than 2 times longer median PFS compared to patients treated in dose escalation with suboptimal doses.

Translational data: IMA203 T cell dose and T cell exposure are associated with clinical responses

Translational data from patients across Phase 1a and Phase 1b indicate that IMA203 T cells rapidly engrafted in all patients after a single dose and show a persistence of more than two years. Three associations/correlations were observed demonstrating high consistency of dose exposure, biological data and clinical outcome in all patients treated with IMA203 for which samples were available (N=65):

- 1. IMA203 T cell dose is significantly associated with confirmed clinical responses (p=0.02),
- 2. IMA203 T cell dose is correlated with T cell peak level (c_{max} , r=0.84, p=1.6x10⁻¹⁸),
- 3. IMA203 T cell peak level (c_{max}, p=0.05) and T cell exposure (AUC_{0-28d}, p=0.05) are associated with confirmed clinical responses.

<u>Development Path and Manufacturing for ACTengine® IMA203 Monotherapy</u>

On September 24, 2024, Immatics completed a Type D meeting with the U.S. Food and Drug Administration (FDA) to confirm RP2D and the CMC package as well as discuss the trial design for SUPRAME, the planned registration-enabling Phase 3 randomized-controlled clinical trial for IMA203. Written post-meeting minutes from the FDA have been received.

The Phase 3 trial will evaluate IMA203 targeting PRAME in 360 HLA-A*02:01-positive patients with second-line or later (2L+) unresectable or metastatic melanoma who have received prior treatment with a checkpoint inhibitor. Patients will be randomized 1:1 for IMA203 or investigator's choice of selected approved treatments in the 2L+ setting.

Based on the Company's discussions with the FDA, the primary endpoint for full approval will be median PFS. Given the expected PFS of 2-3 months⁴ in this patient population, as well as the PFS of 6 months observed in the data from the IMA203 Phase 1b trial, the Company has determined that utilizing median PFS as the primary endpoint is the fastest pathway to seeking full approval and presents a more attractive commercial positioning as

Immatics Press Release October 10, 2024 5 | 8

⁴ See the IMA203 data presentation slides available on the Immatics website for more detailed information and an overview of studies.



compared to objective response rate (ORR). Secondary endpoints for the trial will include ORR, safety, duration of response, no overall survival detriment and patient-reported outcomes. A pre-specified interim analysis is planned for early 2026.

The SUPRAME Phase 3 trial is planned to run globally with sites in the United States and Europe with the initial goal of seeking Biologics License Application (BLA) approval in the United States. On October 2, 2024, Immatics also completed a meeting with the Paul Ehrlich Institute (PEI), the German regulatory authority, and determined the same trial design for conducting the clinical trial in Germany.

The Phase 3 trial is on track to commence in December 2024 and patient enrollment is forecasted to be completed in 2026. The Company aims to submit a BLA in early 2027 for full approval.

Immatics' late-stage clinical cell therapy development is supported by its differentiated manufacturing related to timeline, capabilities and facilities. ACTengine[®] IMA203 cell therapy products are manufactured within 7 days, followed by a 7-day QC release testing at a success rate of >95% to reach the target dose. The Company has also completed construction of a ~100,000 square foot R&D and GMP manufacturing facility with a modular design for efficient and cost-effective scalability intended to serve early-stage and registration-enabling trials, as well as commercial supply. The new site is expected to start GMP manufacturing of cell therapy products in early 2025. Meanwhile, the existing GMP facility, which is run in collaboration with UT Health, will remain active until YE 2025

Immatics Conference Call and Webcast

Immatics will host a conference call and webcast today, October 10, 2024, at 9:00 am EDT/3:00 pm CEST to discuss the clinical data.

A replay of the webcast will be made available shortly after the conclusion of the call and archived on the Immatics website for at least 90 days.

About ACTengine® IMA203 and Target PRAME

ACTengine[®] IMA203 is Immatics' most advanced TCR-based autologous cell therapy that is directed against an HLA-A*02-presented (human leukocyte antigen) peptide derived from preferentially expressed antigen in melanoma (PRAME), a protein frequently expressed in a large variety of solid cancers. PRAME is homogeneously and specifically expressed in tumor tissue and Immatics' PRAME peptide is present at a high copy number per tumor cell. The peptide has been identified and characterized by Immatics' proprietary mass spectrometry-based target discovery platform, XPRESIDENT[®]. Through its proprietary TCR discovery and engineering platform

Immatics Press Release October 10, 2024 6 | 8



XCEPTOR®, Immatics has generated a highly specific T cell receptor (TCR) against this target for ACTengine® IMA203.

ACTengine[®] IMA203 TCR-T is currently being evaluated as a monotherapy in a Phase 1 clinical trial in patients with solid tumors expressing PRAME, such as cutaneous melanoma. An IMA203 registration-enabling randomized controlled Phase 3 trial, "SUPRAME," is planned to commence in December 2024.

ACTengine[®] IMA203 TCR-T is also currently being evaluated in Phase 1 IMA203CD8 (GEN2) monotherapy, where IMA203 engineered T cells are co-transduced with a CD8αβ co-receptor.

- END -

About Immatics

Immatics combines the discovery of true targets for cancer immunotherapies with the development of the right T cell receptors with the goal of enabling a robust and specific T cell response against these targets. This deep know-how is the foundation for our pipeline of Adoptive Cell Therapies and TCR Bispecifics as well as our partnerships with global leaders in the pharmaceutical industry. We are committed to delivering the power of T cells and to unlocking new avenues for patients in their fight against cancer.

Immatics intends to use its website www.immatics.com as a means of disclosing material non-public information. For regular updates you can also follow us on X, Instagram and LinkedIn.

Forward-Looking Statements

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Immatics Press Release October 10, 2024 7 | 8



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Immatics Press Release October 10, 2024 8 | 8

ACTengine® IMA203 TCR-T Targeting PRAME in PD1 Refractory

Metastatic Melanoma

- Phase 1b Dose Expansion Clinical Data Update

October 10, 2024



Oral presentation by Martin Wermke at the Society of Melanoma Research Congress on October 11, 2024

Data cut-off Aug 23, 2024

Delivering the Power of T cells to Cancer Patients

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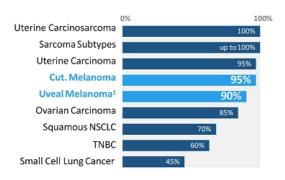
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PRAME - A Widely Expressed Cancer Testis Antigen

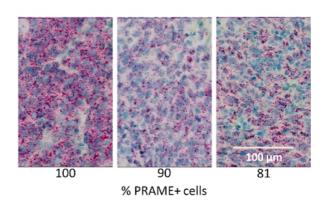


% PRAME Positive Patients in Selected Indications



Target prevalence based on TCGA (SCLC: in-house) RNAseq data combined with proprietary mass spec-guided RNA expression threshold; ¹Uveal melanoma target prevalence based on IMADetect qPCR testing of screening biopsies from 61 trial patients.

PRAME RNA Detection in Melanoma Samples (ISH)



ISH: in-situ hybridization Data cut-off Aug 23, 2024

ACTengine® IMA203 TCR-T Monotherapy - Patient Flow



Screening & Manufacturing Phase

Treatment & Observation Phase

Long Term Follow-up

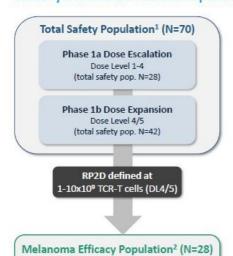
Safety and efficacy monitoring for 12 months HLA-A*02 Testing Leukapheresis Lymphodepletion* Blood sample; Central lab Low dose IL-2** Manufacturing by Immatics Short process time of 14 days Antigen 1 2 3 7-day manufacturing process applying CD8/CD4 T cell selection 7-day QC release testing **Target Profiling** IMADetect® mRNA assay using Immatics' MS-guided threshold; Infusion of ACTengine® Biopsy or archived tissue **IMA203 TCR-T Product** Patient screening data from Immatics' clinical trials: Cut. Melanoma 95% (138/146) Uveal Melanoma 89% (54/61) Uterine Carcinoma 93% (14/15) Ovarian Carcinoma 81% (48/59)

*30 mg/m² Fludarabine and 500 mg/m² Cyclophosphamide for 4 days; **1m IU daily days 1-5 and twice daily days 6-10

ACTengine® IMA203 TCR-T Trial in Melanoma



Heavily Pretreated Patient Population



Melanoma Patients in Phase 1b Dose Expansion

	Total Safety Population ¹		Melanoma Dose Esc Population	Melanoma Dose Escalation Population		асу	
		omers and Phase 1b)	Melanoma (Phase 1a)		Melanoma (Phase 1b, at RP	2D)	
Number of patients	Total Melanoma Other	N=70 N=41 N=29	Total Cutaneous melanoma Uveal melanoma Mucosal melanoma	N=11 N=8 N=2 N=1	Total Cutaneous melanoma Uveal melanoma Melanoma of unknown primary Mucosal melanoma	N=28 N=13 N=12 N=1 N=2	
Prior lines of systemic treatment (median, min, max)	(0	3 0, 9)	4 (2,7)		2 (0, 6)		
Thereof CPI (melanoma only) (median, min, max)	(0	2(0, 4)	(1, 4)		1* (0, 4)		
LDH at baseline >1 x ULN [% of patients]	6	64.3	81.8		60.7		
Baseline tumor burden Median Target lesion sum of diameter [mm] (min, max)		17.8 , 309.8)	117.5 (37.0, 211.0)		107.5 (15.0, 309.8)		
Liver/brain lesions at baseline [% of patients]	6	55.7	63.6		82.1		
Dose level	D	L1-5	EC1/DL3/4		DL4/5		
Total infused dose TCR-T cells [x10 ⁵]		2.09 3, 10.2)	0.586 (0.10, 2.09)		4.1 (1.3, 10.2)		

1 See patient flow in appendix, 2 All infused patients; "Cutaneous melanoma patients had a median of 2 prior lines of checkpoints, see appendix; RP2D: recommended phase 2 dose; CPI: Checkpoint inhibitors; ECL: 0.06-0.12x10*TCR-T cells/m* BSA; DL3: 0.2-0.48x10*TCR-T cells/m* BSA; DL4: 0.2-1.2x10*TCR-T cells/m* BSA; DL5: 1.201 - 4.7x10*TCR-T cells/m* BSA

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



N=70 Patients in Total Safety Population¹

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

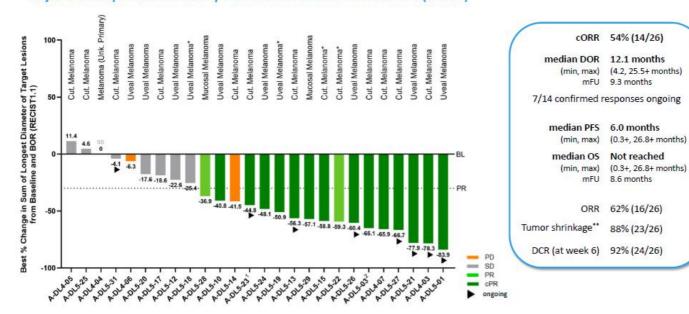
Favorable tolerability profile for IMA203 monotherapy at recommended phase 2 dose (1x109 to 10x109 TCR-T cells)

¹ See patient flow in appendix; ² One grade 3 CRS only after exploratory second infusion; CRS and ICANS graded by CARTOX criteria (Neelapu et al., 2019); ICANS: Immuno Effector Cell Associated Neurotoxicity: Sundaymo

Best Overall Response for IMA203 in Melanoma



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



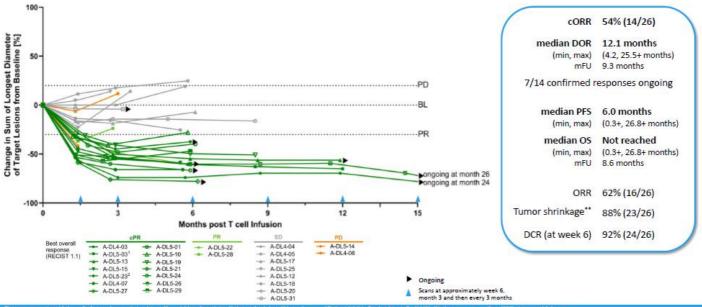
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Data Cut-Off Aug 25, 2024

Response Over Time of IMA203 in Melanoma



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

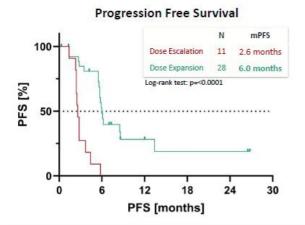


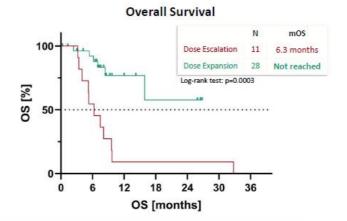
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Significant Shift in PFS and OS Between Dose Escalation & Dose Expansion



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





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

Overall survival (OS) and progression-free survival (PFS) censored at data-cut, * These data are derived from different clinical trials at different points in time with differences

IMA203 Phase 1b in Melanoma: Overview of Studies



PFS and OS Data in 2L+ Melanoma Cohorts

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

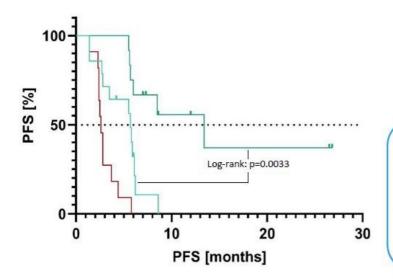
These data are derived from different clinical trials at different points in time with differences in trial design and patient populations. As a result, crosstrial comparisons cannot be made, and no head-to-head clinical trials have been conducted.

Chesney et al., 2022; 2 Diab et al., 2024; 3 Ascierto et al., 2023

Enhanced PFS in Phase 1b Melanoma Patients with Deep Responses



N=26#



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

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

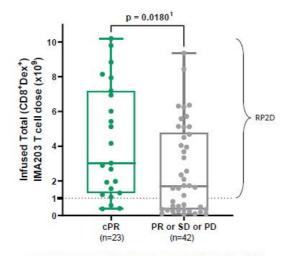
Excluding two patients that were infused but did not have their first tumor assessment post baseline at data-cu "Includes one patient with ongoing SD 4.4 months after infusion with tumor reduction «50%

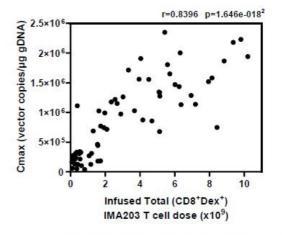
Data cut-off Aug 23, 2024 1

Dose Response Relationship



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





IMA203 T Cell Dose is Associated with Clinical Activity

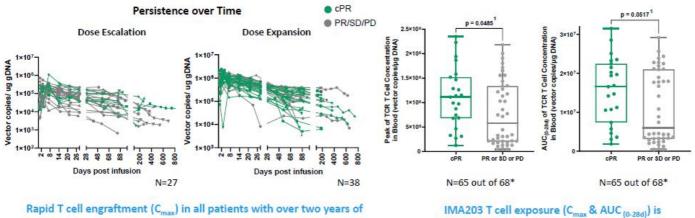
IMA203 T Cell Dose Correlates with T Cell Exposure

Mann-Whitney U test, "Spearman Correlation; " no data available yet for patients recently treated; PD: Progressive Disease; SD: Stable Disease; PR: Partial Response; cPR: Confirmed Partial Response; , RP2D: recommended phase 2 dosr Data cut-off Aug 23, 2024 12

Exposure Response Relationship



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



persistence

associated with clinical responses

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

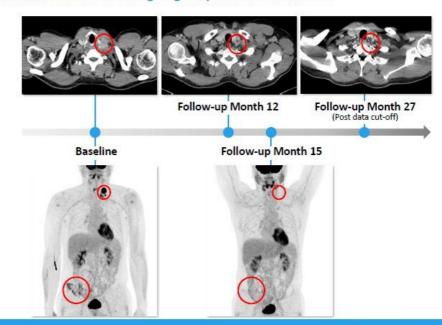
Patient Case A-DL4-03: Cutaneous Melanoma



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

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

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



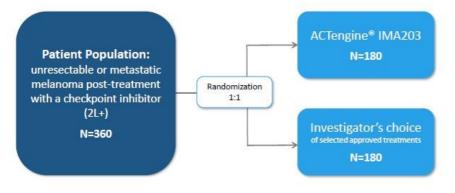
mages courtesy of treating physician (Dr. Martin Wermke, University of Dresden)

Data cut-off Aug 23, 2024 14

SUPRAME: Registration-enabling Randomized Phase 3 Trial



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



Endpoints

- Primary Endpoint
 - · PFS
- Secondary Endpoints
 - Safety
 - ORR + DOR
 - No OS detriment
 - Patient-reported outcomes (EORTC QLQ-C30, EQ-5D-5L)

Next Steps

- · SUPRAME Phase 3 trial is projected to commence in December 2024
- · Pre-specified interim analysis planned after approx. 200 patients enrolled
- · Full enrollment anticipated by late 2026

mPF5: median progression-free survival, ORR: objective response rate; 1 Scientific Advice Meeting with Paul-Ehrlich-Institute, the German regulatory authority

15

ACTengine® IMA203 TCR-T Monotherapy Targeting PRAME in Melanoma

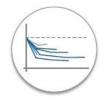


Summary of Clinical Data



Tolerability

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



Anti-Tumor Activity & Durability

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



PFS & OS

not reached (mFU 8.6 months)



Biological Data

PFS of 6 months and OS T cell dose and exposure are significantly associated with clinical response



Broad Reach

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

SUPRAME Phase 3 trial is projected to commence in December 2024

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





University Hospital University Hospital University Hospital Dresden University Medicine University Medicine University Hospital Würzburg University Hospital Heidelberg Sponsor: Immatics

... and the Investigators at the Clinical Sites

17





Appendix

1

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



All ≥Grade 3 Adverse Events (N=70¹)

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

Adverse event	≥ Grade 3	
(System organ class, Preferred term)	No.	%
Patients with any adverse event	70	100.0
Adverse Events of Special Interest	9	12.9
Cytokine release syndrome	8	11.4
ICANS ²	3	4.3
Blood and lymphatic system disorders	70	100.0
Neutropenia	62	88.6
Lymphopenia	39	55.7
Leukopenia	38	54.3
Anaemia	36	51.4
Thrombocytopenia	24	34.3
Febrile neutropenia	2	2.9
Cytopenia	1	1.4
Leukocytosis	1	1.4
Infections and infestations	10	143
Urinary tract infection	2	2.9
Appendicitis	1	1.4
COVID-19	1	1.4
Cytomegalovirus infection reactivation	1	1.4
Enterococcal infection	1	1.4
Human herpesvirus 6 encephalitis	1	1.4
Infection	1	1.4
Orchitis	1	1.4
Sepsis ^{8,4}	1	1.4
Septic shock ⁸	1	1.4
Investigations	10	143
Alanine aminotransferase increased	6	8.6
Aspartate aminotransferase increased	5	7.1
Blood creatinine increased	2	2.9
Blood alkaline phosphatase increased	1	1.4
Blood bilirubin increased	1	1.4
Blood fibrinogen decreased	1	1.4
Lymphocyte count increased	1	1.4
Respiratory, thoracic and mediastinal disorders	10	14.3
Hypoxia	4	5.7
Pleural effusion	2	2.9
Bronchial obstruction	1	1.4
Dyspnoea	1	1.4
Epistaxis	1	1.4
Laryngeal inflammation	1	1.4
Respiratory failure	1	1.4

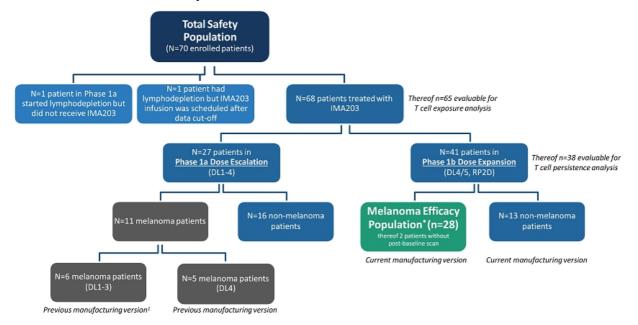
Adverse event	≥ Gra	ade 3
(System organ class, Preferred term)	No.	96
table continued		
Metabolism and nutrition disorders	7	10.0
Hypokalaemia	3	4.3
Hyponatraemia	3	4.3
Hypophosphataemia	2	2.9
Dehydration	1	1.4
Failure to thrive	1	1.4
Vascular disorders	7	10.0
Hypertension	6	8.6
Hypotersion	1	1.4
Renal and urinary disorders	6	8.6
Acute kidney injury	4	5.7
Nephritis	i	1.4
Proteinuria	1	1.4
Gastrointestinal disorders	5	7.1
Abdominal pain	3	4.3
Diarrhona	1	1.4
less	1	1.4
Vomiting	1	1.4
General disorders and administration site conditions	4	5.7
Fatigue	1	1.4
General physical health deterioration	1	1.4
Pyrexia	1	1.4
Swelling face Skin and subcutaneous tissue disorders	1	5.7
Rash maculo-papular	3	4.3
Francia	3	1.4
Cardiac disorders	- 3	4.3
Atrial fibrillation*	3	43
Eve disorders	2	2.9
Periorbital pedema	i	1.4
Ulcerative keratitis	i	1.4
	2	2.9
Injury, poisoning and procedural complications Humerus fracture	1	14
		70.00
Infusion related reaction	1	1.4
Musculoskeletal and connective tissue disorders	2	2.9
Back pain	1	1.4
Muscle spaces	1	1.4

Adverse event	≥ Grade 3	
(System organ class, Preferred term)	No.	96
table continued		
Nervous system disorders	2	2.9
Headache	1	1.4
Posterior reversible encephalopathy syndrome	1	1.4
Endocrine disorders	1	1.4
Inappropriate antidiuretic hormone secretion	1	1.4
Hepatobiliary disorders	1	1.4
Cholangitis	1	1.4
Immune system disorders	1	1.4
Haemophagocytic lymphohistiocytosis	1	1.4
Reproductive system and breast disorders	1	1.4
Vaginal haemorrhage	1	1.4

All treatment-emergent adverse events (TEAE) with a Crade 3 regardless of relatedness to study treatment. Adverse events were coded using the Medical Extornary for Regulatory Activities. Great were determined according to National Cancer testificate Common Terminology Citeria of Adverse Events, vession 5.0, Greate for Cytokine release syndrome and EAMS were determined according to CARTOX ordering (Neeligue et al., 2019). Patients are counted only once per adverse event and avoverity classification. Based on interim data extracted from open clinical distalases (2.3-kag. 2024). "Two patients with disease direct and common services of the Carton of the Carton open clinical distalases (2.3-kag. 2024). "Two patients with disease direct according to the Carton of the Carton open clinical distalases (2.3-kag. 2024). "Two patients with disease direct according to the Carton open common open com

IMA203 Phase 1 Patient Population Flow Chart





Melanoma efficacy population excludes 5 patients treated at DL4 in Phase 1a of the trial as reported in the May 2024 update, based on different manufacturing version used that affects the T cell product (see slide 22), current manufacturing version. T cell enrichment process using monocyte depletion (negative selection) or CD8/CD4

Baseline Characteristics of Melanoma Patients in Phase 1a and Phase 1b



Focus on Cutaneous and Uveal Melanoma

	Melanoma Dose Escalation Population		Melanoma Efficacy Population ¹	
Indication	Cutaneous Melanoma (N=8)	Uveal Melanoma (N=2)	Cutaneous Melanoma (N=13)	Uveal Melanoma (N=12)
Prior lines of systemic treatment (median, min, max)	4.5 (2, 7)	2 (2, 2)	2 (1,5)	2.5 (0, 6)
Thereof CPI (melanoma only) (median, min, max)	2.5 (2,4)	1 (1,1)	2 (1, 3)	1 (0, 4)
LDH at baseline >1 x ULN (% of patients)	75.0	100.0	69.2	58.3
Baseline tumor burden Median Target lesion sum of diameter [mm] (min, max)	106.3 (37.0, 211.0)	153,5 (109.9, 198.0)	123.0 (15.0, 309.8)	107.5 (38.6, 210.0)
Liver/brain lesions at baseline [% of patients]	50.0	100.0	69.2	91.7
Dose level	EC1/DL4	EC1, DL3	DL4/DL5	DL4/DL5
Total infused dose TCR-T cells [x10°]	1.115 (0.099, 2.09)	0.417 (0.248, 0.586)	4.04 (1.3, 10.2)	4.33 (1.62, 8.43)

Cutaneous melanoma patients in Phase 1b had similar prior CPI exposure, higher tumor burden and higher incidence of liver/brain lesions compared to Phase 1a

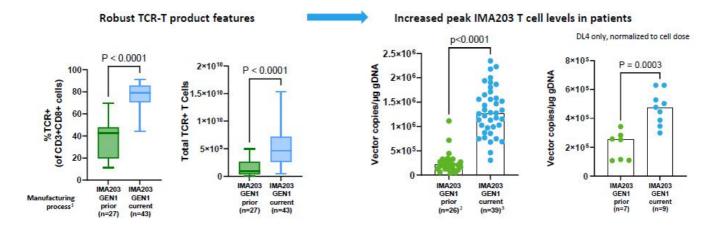
¹ All infused melanoma patients in Ph1b dose expansion; CPI: Checkpoint inhibitors; ECI: 0.06-0.12x10^aTCR-T cells/m² BSA; DL3: 0.2-0.48x10^aTCR-T cells/m² BSA; DL4: 0.2-1.2x10^aTCR-T cells/m² BSA, DL5: 1.201 - 4.7x10^aTCR-T cells/m² BSA

Data cut-off Aug 23, 2024 21

Favorable TCR-T Product Characteristics and High TCR-T Levels in Patients



Manufacturing Improvements Implemented in Phase 1b Enhance Key Features of the Cell Product



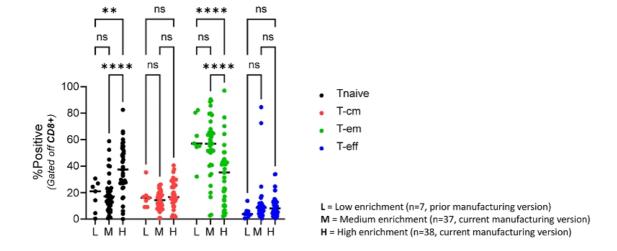
- Manufacturing improvements including T cell enrichment process (i.e. removal of monocyte fraction or CD4/CD8 selection) implemented in Phase 1b lead to improved TCR-T product features and increased TCR-T levels in patients
- The efficacy-evaluable population in this analysis (data cut-off Aug 23, 2024) focuses on this patient population only and reflects the expected population and product to be evaluated in the pivotal trial

¹ Current: T cell enrichment process using monocyte depletion (negative selection) or CD8/CD4 positive selection; prior: manufacturing process without specific T cell enrichment;
² one patient started lymphodepletion but did not receive IMA203 T cells;
¹ no data available yet for patients recently treated

T Cell Selection Results in 'Younger' Phenotype of the TCR-T Product



Consequently, Terminally Differentiated T Cells are also Decreased



Presented at the Process Development Summit 2024; L: No specific T cell enrichment; M: monocyte depletion (negative selection); H: CD4/CD8 T cell selection (positive selection);
Results are represented as separated scatter with median: "ps0 05, **ps0 01, ***ps0 001, ***ps0 0001, n = not significant by a two-way, ANOVA with Tukey's Multiple Comparison

Melanoma Patients Treated with IMA203 in Phase 1b Dose Expansion



Efficacy-evaluable Population (n=28*)

Patient ID	Indication	No of prior treatment lines	Prior treatments	Total infused dose TCR-T cells ¹ [x10 ⁹]	BOR	BOR (Max % change of target lesions)	Comment	Reason for Progression
A-DL5-01	Uveal Melanoma	1	ARRY614 + Nivolumab	4.16	cPR	-83.9	Ongoing response at 26.8 months PFS	
A-DL4-03	Cut. Melanoma	5	Dabrafenib + Trametinib Pembrzolizumaja Dabrafenib + Trametinib + Vemurafenib + Cobimetinib Tebentafusp Encorafenib + Binimetinib	1.30	cPR	-78.3	Ongoing response at 26.5 months PFS	
A-DL5-13	Cut. Melanoma	3	Nivolumab Pembrolizumab Ipilimumab + Nivolumab	9.80	cPR	-56.3	Ongoing response at 12.0 months PFS	
A-DL5-21	Uveal Melanoma	2	Valproic acid + Sunitinib Tebentafusp	7.19	cPR	-77.9	Ongoing response at 8.6 months PFS	
A-DL5-26	Uveal Melanoma	2	Melphalan Tebentafusp	8.14	cPR	-60.4	Ongoing response at 7.3 months PFS	
A-DL5-27	Cut. Melanoma	1	Relatlimab + Nivolumab	10.20	cPR	-66.7	Ongoing response at 7.0 months PFS	
A-DL5-31	Cut. Melanoma	3	Ipilimumab + Nivolumab AB122 + AB154 Encorafenib + Binimetinib	3.68	SD	-4.1	Ongoing stable disease at 4.2 months PFS	
A-DL5-23	Cut. Melanoma	3	Ipilimumab + Nivolumab Encorafenib + Binimetinib Relatlimab + Nivolumab	6.94	cPR	-44.8	Ongoing response at 6 months PFS, patient off study at data-cut due to investigator decision (radiation of one target lesion)	
A-DL5-03	Cut. Melanoma	3	Interferon Pembrolizumab Ipilimumab + Nivolumab	5.12	cPR	-65.1	Response until 13.4 months PFS	Progression as determined by external assessment
A-DL5-19	Uveal Melanoma	6	Pembrolizumab Clinical trial intrahepatic PV10 Indimumab Nivolumab Clinical trial Anti-CTLA-4 NF AB + XRT Clinical trial foghorn FHD-286 Pembrolizumab	5.42	cPR	-50.9	Response until 8.5 months PFS	Non-target lesion progression
A-DL5-24	Uveal Melanoma	3	NOX66-005 Idronoxil with radiotherapy DE 196 + Crizotion LVGN3616 + LVGN6051 + LVGN7409+ Bevacizumab + Cyclophosphamide	2.89	cPR	-48.1	Response until 6.2 months PFS	Non-target lesion progression and new lesion
A-DL5-29	Mucosal Melanoma	2	Nivolumab Ipilimumab + Nivolumab	7.94	cPR	-57.1	Response until 6.0 months PFS	Target lesion and non-targe lesion progression
A-DL5-10	Uveal Melanoma	1	SEAGEN CD40 Agonist	2.68	cPR	-40.8	Response until 5.8 months PFS	Target lesion progression
A-DL4-07	Cut. Melanoma	2	Nivolumab + Ipilimumab Brektovi + Mektovi + Nivolumab + Relatlimab	1.55	cPR	-65.9	Response until 5.7 months PFS	New lesions
A-DL5-15	Cut. Melanoma	1	Pembrolizumab	3.02	cPR	-58.8	Response until 5.6 months PFS	New lesions

First tumor assessment post inhusion pending for two medianama patients at data-cut; +1 ransduced viable to Us 1 cells;
100R: Best overall response; Dic Dose level; PD; Progressive Disease; DS; Exable Disease; PR; Partial Response; PR; Confirmed Partial Response; PFS: Progression-free survival (censored at data-cut) and the progression of the progressio

Melanoma Patients Treated with IMA203 in Phase 1b Dose Expansion (cont.)



Efficacy-evaluable Population (n=28*)

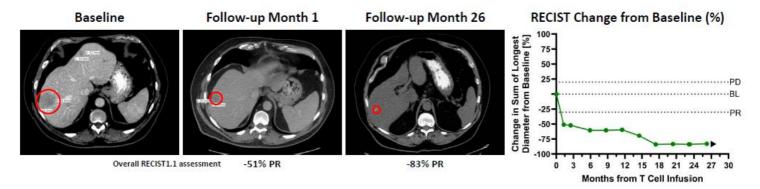
Patient ID	Indication	No of prior treatment lines	Prior treatments	Total infused dose TCR-T cells ¹ [x10 ⁹]	BOR	BOR (Max % change of target lesions)	Comment	Reason for Progression
A-DL5-22	Cut. Melanoma	2	Ipilimumab+Nivolumab Tafinlar + Mekinist	6.31	PR	-59.3	Disease stabilization until 2.7 months post infusion, unconfirmed response from 2.7 until 5.5 months PFS	New lesions
A-DL5-28	Mucosal Melanoma	3	Ipilimumab + Nivolumab Avapritinib Opdualag	3.33	PR	-36.9	Unconfirmed response until 2.8 months PFS	Target lesion progression
A-DL5-20	Uveal Melanoma	5	Ipilimumab + Pembrolizumab Tebentafusp Ipilimumab + Nivolumab IDE196 + Binimetinib FHD-286	8.43	SD	-17.6	Disease stabilization until 8.6 months PFS	Non-target lesion progression
A-DL5-17	Cut. Melanoma	2	Ipilimumab + Nivolumab+Tociliziumab Nivolumab + Relatlimab + Tocilizumab + Ipilimumab	4.04	SD	-18.6	Disease stabilization until 6.1 months PFS	New lesion
A-DL4-05	Cut. Melanoma	4	Nivolumab + Ipilimumab Dabrafenib + Trametinib Nivolumab	1.63	SD	11.4	Disease stabilization until 5.9 months PFS	New lesions, target lesion progression
A-DL4-04	Melanoma (Unk. Primary)	1	Ipilimumab + Nivolumab	1.73	SD	0.0	Disease stabilization until 5.7 months PFS	Non-target lesion progression and a new lesio
A-DL5-18	Uveal Melanoma	2	Tebentafusp Ipilimumab + Nivolumab	5.71	SD	-25.4	Disease stabilization until 5.5 months PFS	New lesion
A-DL5-12	Uveal Melanoma	3	Tyrosinase peptides Nivolumab + Ipilimumab + Denosumab Tebentafusp	4.50	SD	-22.6	Disease stabilization until 3.5 months PFS	Target and non-target lesion progression, new lesions
A-DL5-25	Cut. Melanoma	2	Ipilimumab + Nivolumab Axitinib + Nivolumab	5.14	SD	4.6	Disease stabilization until 2.7 months PFS	Non-target lesion progression, new lesions
A-DL4-06	Uveal Melanoma	0	NA	2.56	PD	-6.3	Progressive disease at 1.4 months PFS	New lesion
A-DL5-14	Cut. Melanoma	2	Nivolumab Encorafenib + Binimetinib	2.34	PD	-41.5	Progressive disease at 1.4 months PFS	New lesions
A-DL5-32	Uveal Melanoma	5	Ipilimumab + Nivolumab Tebentafusp Ipilimumab + Nivolumab DYP-688 Ipilimumab + Nivolumab	3.18	N/A	N/A	First scan post infusion pending at data cut-off	
AA-1	Uveal Melanoma	3	Ipilimumab + Nivolumab Darovasertib Tebentafusp	1.62	N/A	N/A	First scan post infusion pending at data cut-off	

First tumor assessment post infusion pending for two melanoma patients at data-cut; 1 Transduced viable CD8 T cells;
10R: Best overall response: DL: Dose level: PD: Progressive Disease: SD: Stable Disease: PB: Partial Response: CP8: Confirmed Partial Response: PPS: Progression-free survival (consored at data-cut)

Patient Case A-DL5-01: Uveal Melanoma



Long-term Responder Ongoing at 26+ Months



71-year-old male patient with ongoing shrinkage of liver lesion 26+ months post treatment

- · 1 prior line of systemic treatment: ARRY614 + Nivolumab
- 6 years of cancer history
- · 99.2 mm target lesion sum
- Patient received ~4x109 IMA203 TCR-T cells

CT scans courtesy of treating physician (Dr. Jason Luke, University of Pittsburgh)

Data cut-off Aug 23, 2024

Patient Case A-DL5-033: Cutaneous Melanoma



Changes of a Melanoma Lesion of the Skin within 8 Days (Post Data Cut-off)

61-year-old male patient demonstrated changes of a melanoma lesion of the skin 8 days post IMA203 infusion

- 4 prior systemic treatment lines: 3 lines of CPI, 1 line of Brenetafusp (PRAME)
- 8 years of cancer history
- 118 mm target lesion sum
- Patient received ~10x10⁹
 IMA203 TCR-T cells



Data cut Aug 23, 2024; Patient was treated post data cut-off date (Aug 26, 2024); Images courtesy of treating physician (Dr. Jason Luke, University of Pittsburgh)

Delivering

the Power of T cells to Cancer Patients





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Immatics Corporate Presentation

October 10, 2024



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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

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



Differentiated Platforms

Unique technologies to identify true cancer targets and right TCRs



Therapeutic Opportunity

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

Intro

2H2024 Catalysts for ACTengine® and TCER® Clinical Lead Assets



Projected Cash Runway into 2027 to Reach Multiple Value Inflections Points

ACTengine® IMA203 / IMA203CD8 (PRAME)

- Targeted randomized Phase 3 trial¹ for ACTengine® IMA203 in 2L+ melanoma in 2024
- Clinical data update from Phase 1b dose expansion trial at SMR Conference on Oct 11, 2024; next IMA203CD8 (GEN2) update at SITC Conference on Nov 9, 2024

TCER® IMA401 (MAGEA4/8)

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

TCER® IMA402 (PRAME)

First clinical data update from dose escalation in ongoing Phase 1/2 trial planned in 4Q 2024 with initial focus on early doses and melanoma

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

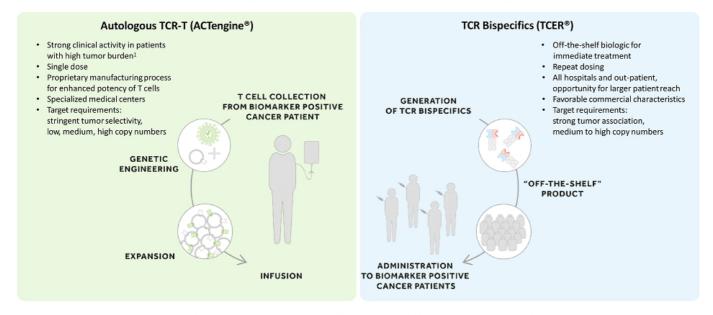
Updates planned across the entire clinical portfolio throughout 2024

Intro

- 4

Two Distinct TCR-based Therapeutic Modalities in Clinical Development





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

Intro

•

Our Pipeline of TCR-based Adoptive Cell Therapies and Bispecifics



Modality	Product Candidate	Target		Preclinical	Phase 1a1	Phase 1b1	Phase 2	Phase 3
	ACTengine® IMA203	PRAME	immatics					
Autologous ACT	ACTengine® IMA203CD8	PRAME	immatics					
Autologous ACT	ACTengine [®] IMA204	COL6A3	immatics					
	Multiple programs	Undisclosed	A Bristol Myers Squibb					
Allogeneic ACT	ACTallo® IMA30x	Undisclosed	mmatics editas					
γδ T cells	Multiple programs	Undisclosed	& Bristol Myers Squibb					
	TCER® IMA401	MAGEA4/8	immatics					
Piifi	TCER® IMA402	PRAME	immatics					
Bispecifics	TCER® IMA40x	Undisclosed	immatics					
	Multiple programs ³	Undisclosed	moderna					

0

¹Phase 1a: Dose escalation, Phase 1b: Dose expansion; ² Immatics' proprietary ACTallo® platform utilizing Editas' CRISPR gene editing technology ³ mRNA-enabled *in vivo* expressed TCER® molecules

Realizing the Full Multi-Cancer Opportunity of PRAME



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

Indication	% PRAME positive patients ¹	ACTengine® Phase 3 tr	
Uterine Carcinoma terine Carcinosarcoma	97% 100%	IMA203 (TCR-T) preparation	
Sarcoma Subtypes	up to 100%	(lick i)	
Cut. Melanoma	95%		
Uveal Melanoma ²	89%		
Ovarian Carcinoma	84%		
Squamous NSCLC	68%		
TNBC	63%	Cancer Cell	
Small Cell Lung Cancer	45%	Death TCER® IMA402	
Kidney Carcinoma	up to 40%	(TCR Bispecific)	
Cholangiocarcinoma	33%		
HNSCC	27%		
Esophageal Carcinoma	27%	Dose escalation	on
Breast Carcinoma	26%	of Phase 1/2	trial
Adeno NSCLC	25%		uiui
HCC	18%	ongoing	
Bladder Carcinoma	18%		

most prevalent, clinically validated solid tumor targets known to date

evaluation of the best suited therapeutic modality (ACTengine® vs. TCER® or both) for each cancer type

Intro Screening biopsies for



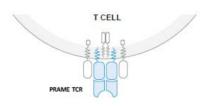


ACTengine® IMA203 – TCR-T Targeting PRAME

The Multi-Cancer Opportunity of PRAME



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





TUMOR CELL

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



High prevalence



High target density



Homogeneous expression

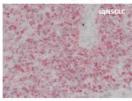


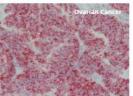
"Clean" expression profile



Clinical proof-of-concept







IMA203 ISH: in situ hybridization, sqNSCLC: squamous non-small cell lung cancer

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



~39,000 Patients per Year in the US only

Selected Indications

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

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

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

TOTAL ~39,000 annually in the US

Multiple opportunities to broaden patient reach and patient benefit:

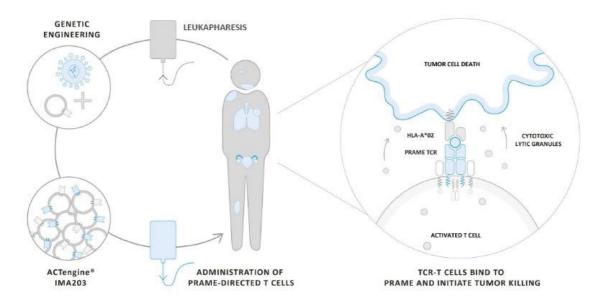
- > Expand beyond US population
- > Expand into other indications such as kidney, esophageal, bladder, other liver cancers, other sarcoma subtypes through indication-specific or indication-agonistic label expansion
- Move into earlier lines of therapy (R/R Incidence → Incidence)
- Inclusion of patients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

IMA203 Incidences based of TCGA (for SCLC: in

ACTengine® IMA203 Targeting PRAME – Mechanism of Action



Immatics' Leading TCR-T Approach



IMA203

ACTengine® IMA203 TCR-T Product Manufacturing



Differentiated Manufacturing Process and Setup

Proprietary Manufacturing Process

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



IMA203

IMA203: RP2D 1-10x109 total TCR-T cell

ACTengine® IMA203 TCR-T Monotherapy - Patient Flow

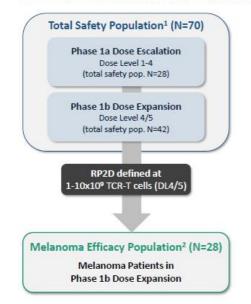


Long Term **Treatment & Observation Phase** Screening & Manufacturing Phase Follow-up Safety and efficacy monitoring for 12 months HLA-A*02 Testing Leukapheresis Lymphodepletion* Blood sample; Central lab Low dose IL-2** Manufacturing by Immatics Short process time of 14 days 7-day manufacturing process applying CD8/CD4 T cell selection 7-day QC release testing **Target Profiling** IMADetect® mRNA assay using Immatics' MS-guided threshold; Infusion of ACTengine® Biopsy or archived tissue **IMA203 TCR-T Product** Patient screening data from Immatics' clinical trials: Cut. Melanoma 95% (138/146) Uveal Melanoma 89% (54/61) Uterine Carcinoma 93% (14/15) Ovarian Carcinoma 81% (48/59) IMA203 *30 mg/m² Fludarabine and 500 mg/m² Cyclophosphamide for 4 days; *1m IU daily days 1-5 and twice daily days 6-10

ACTengine® IMA203 TCR-T Trial in Melanoma



Heavily Pretreated Patient Population



	Total Safety Population¹		Melanoma Dose Esc Population	alation	Melanoma Efficacy Population ²		
	The second secon	omers and Phase 1b)	Melanoma (Phase 1a)		Melanoma (Phase 1b, at RP	2D)	
Number of patients	Total Melanoma Other	N=70 N=41 N=29	Total Cutaneous melanoma Uveal melanoma Mucosal melanoma	N=11 N=8 N=2 N=1	Total Cutaneous melanoma Uveal melanoma Melanoma of unknown primary Mucosal melanoma	N=28 N=13 N=12 N=1 N=2	
rior lines of /stemic treatment nedian, min, max)		3), 9)	4 (2,7) 2 (1,4)		2 (0, 6)		
Thereof CPI (melanoma only) (median, min, max)	2 (0, 4)				1* (0, 4)		
LDH at baseline >1 x ULN [% of patients]	6	4.3	81.8		60.7		
Baseline tumor burden Median Target lesion sum of diameter [mm] (min, max)	10000	17.8 , 309.8)	117.5 (37.0, 211.0)		107.5 (15.0, 309.8)		
Liver/brain lesions at baseline [% of patients]	6	5.7	63.6		82.1		
Dose level	D	L1-5	EC1/DL3/4		DL4/5		
Total infused dose TCR-T cells [x10 ⁸]		2.09 3, 10.2)	0.586 (0.10, 2.09)		4.1 (1.3, 10.2)		

IMA203

**See patient flow in appendix, **All infused patients; **Cutaneous melanoma patients had a median of 2 prior lines of checkpoints, see appendix; RP2D: recommended phase 2 dose; CPI: Checkpoint inhibitors; ECI: 0.06-0.12×10*TCR-T cells/m* BSA; DI3: 0.2-0.48×10* TCR-T cells/m* BSA, DI4: 0.2-1.2×10* TCR-T cells/m* BSA, DI5: 0.2-1.2×10* TCR-T cells/m* BSA, DI5: 0.2-0.48×10* TCR-T cells/m* BSA, DI5: 0.2-0

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



N=70 Patients in Total Safety Population¹

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

Favorable tolerability profile for IMA203 monotherapy at recommended phase 2 dose (1x109 to 10x109 TCR-T cells)

IMA203

See patient flow in appendix; One grade 3 CRS only after exploratory second infusion; CRS and ICANS graded by CARTOX criteria (Neelapu et al., 2019 CANS: Immune Effector Cell-Associated Neuropoxicity Syndrome

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



All ≥Grade 3 Adverse Events (N=70¹)

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

Adverse event	≥ Gr	ade 3
(System organ class, Preferred term)	No.	96
Patients with any adverse event	70	100.0
Adverse Events of Special Interest	9	12.9
Cytokine release syndrome	8	11.4
KANS ²	3	4.3
Blood and lymphatic system disorders	70	100.0
Neutropenia	62	88.6
Lymphopenia	39	55.7
Leukopenia	38	54.3
Anaemia	36	51.4
Thrombocytopenia	24	34.3
Febrile neutropenia	2	2.9
Cytopenia	1	1.4
Leukocytosis	1	1.4
Infections and infestations	10	14.3
Urinary tract infection	2	2.9
Appendicitis	1	1.4
COVID-19	1	1.4
Cytomegalovirus infection reactivation	1	1.4
Enterococcal infection	1	1.4
Human herpesvirus 6 encephalitis	1	1.4
Infection	1	1.4
Orchitis	1	1.4
Sepsis ^{K,A}	1	1.4
Septic shock*	1	1.4
Investigations	10	14.3
Alanine aminotransferase increased	6	8.6
Aspartate aminotransferase increased	5	7.1
Blood creatinine increased	2	2.9
Blood alkaline phosphatase increased	1	1.4
Blood billrubin increased	1	1.4
Blood fibringen decreased	1	1.4
Lymphocyte count increased	1	1.4
Respiratory, thoracic and mediastinal disorders	10	14.3
Hypoida	4	5.7
Pleural effusion	2	2.9
Bronchial obstruction	1	1.4
Dyspnoea	1	1.4
Epistaxis	1	1.4
Laryngeal inflammation	1	1.4
Respiratory failure	1	1.4

Adverse event	≥ Gra	ade 3
(System organ class, Preferred term)	No.	96
Table continued		
Metabolism and nutrition disorders	7	10.0
Hypokalaemia	3	4.3
Hyponatraemia	3	4.3
Hypophosphataemia	2	2.9
Delrydration	1	1.4
Failure to thrive	1	1.4
Vascular disorders	7	10.0
Hypertension	6	8.6
Hypotension	1	1.4
Renal and urinary disorders	6	8.6
Acute kidney injury	4	5.7
Neghritis	1	1.4
Proteinuria	- 1	1.4
Gastrointestinal disorders	5	7.1
Abdominal pain	3	4.3
Diarrhoes	1	1.4
lleus	1	1.4
Vomiting	1	1.4
General disorders and administration site conditions	4	5.7
Fatigue	1	1.4
General physical health deterioration ⁸ Pyrexia	1	1.4
Swelling face	1	1.4
Skin and subcutaneous tissue disorders	- 1	5.7
Rash maculo-papular	3	4.3
Eszema	1	1.4
Cardiac disorders	3	4.3
Atrial fibrillation ³	3	4.3
Eye disorders	2	2.9
Periorbital cedema	1	1.4
Ulcerative keratitis	1	1.4
Injury, poisoning and procedural complications	2	2.9
Humerus fracture	1	1.4
Infusion related reaction	1	1.4
Musculoskeletal and connective tissue disorders	2	2.9
	1	1.4
Back pain	1	1.4

Adverse event	≥ Grade 3			
(System organ class, Preferred term)	No.	96		
table continued				
Nervous system disorders	2	2.9		
Headache	1	1.4		
Posterior reversible encephalopathy syndrome	1	1.4		
Endocrine disorders	1	1.4		
Inappropriate antiduretic hormone secretion	1	1.4		
Hepatobiliary disorders	1	1.4		
Cholangitis	1	1.4		
immune system disorders	1	1.4		
Haemophagocytic lymphohistiocytosis	1	1.4		
Reproductive system and breast disorders	1	1.4		
Vaginal haemorrhage	1	1.4		

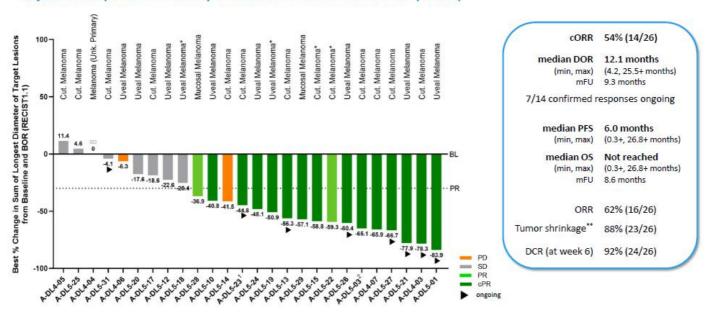
All treatment-emergent adverse events (TEAG) with 2 Grade 3 regardless of relatedness to study treatment. Adverse event were coded using the Medical Dictionary for Regulatory Activities. Greats were determined according to National Cancel Institute Common Terminology Criteria of Adverse Events, version 5.0 Grades for Cytokine release syndrome and ICAHS were determined according to CARTOX Criteria (Neelaya et al., 2019). Patients are counted only once per adverse event an seventry (stasification. Based on interim data extracted from open clinical databases (23 Aug. 2004). "Two patients with diseas progression after first IMAGOS influsion received exploratory second MAGOS influsion. They had these 2 Grade 3 TEAS on after second influsion, which are included in the table. First patient: Advancinal pain, Cytokine release syndrome, Districts after second influsion, which are included in the table. First patient: Advancinal pain, Cytokine release syndrome, Districts after second influsion, which are included in the table. First patient: Advancinal pain, Cytokine release syndrome, Districts after second influsion, which are included in the table. First patient: Advancinal pain, Cytokine release syndrome, Districts after second influsion, which are included in the table. First patient: Advancinal pain, Cytokine release syndrome, Districts after a control of the control of

IMA203

Best Overall Response for IMA203 in Melanoma



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



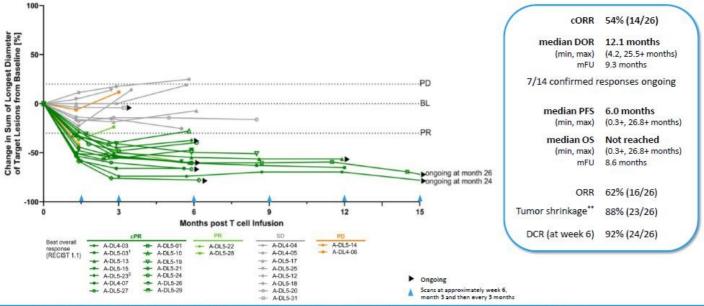
IMA203

installment). Little Oth Objective requires the exacting to RECET 1.3 at any past infaston care, Confirmed Oth (cittle). Confirmed objective response the exacting to RECET 1.3 for patients with at least two evaluate positions care or patients with at least two or patients with a least two or patients with

Response Over Time of IMA203 in Melanoma



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



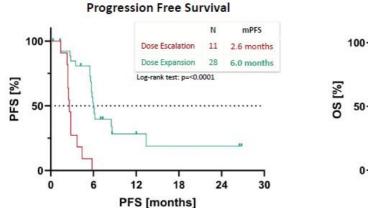
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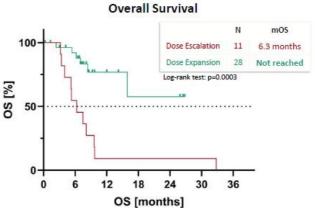
tes turns assument post finishin peoling to the militorium pathets at date out. Turns whiching of larget later, "Patient out of study in the Control patient (assument) "Nation A-D-23 to eff may at date out." (i) Intel ORE Objective registerant assument) "Nation A-D-23 to eff may at date out." (ii) Intel ORE Objective registerant assument) "Nation A-D-23 to eff may at date out." (iii) Intel ORE Objective registerant assument) "Nation A-D-23 to eff may at date out." (iii) Intel ORE Objective registerant assument assument

Significant Shift in PFS and OS Between Dose Escalation & Dose Expansion



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





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

IMA203

Overall survival (OS) and progression-free survival (PFS) censored at data-cut; * These data are derived from different clinical trials at different points in time with difference in trial design and patient populations. As a result, cross-trial comparisons cannot be made, and no head-to-head clinical trials have been conducted.

Data cut-off Aug 23, 2024

IMA203 Phase 1b in Melanoma: Overview of Studies



PFS and OS Data in 2L+ Melanoma Cohorts

Drug Product	Phase	N	2L+ melanoma patient population	Prior lines of therapies	mPFS (months)	mOS (months)
IMA203 in Melanoma	46% cutaneous 48% n=0, 18% n=1, 32% n=2, 29% n=3;, 4% n=4, 11% n=5, 4% n=6 46% cutaneous 48% n=0, 18% n=1, 32% n=2, 29% n=3;, 4% n=4, 11% n=5, 4% n=6 86% received prior CPI (median of 1 prior lines of CPI in our all population, median of 2 prior lines of CPI in cut. melanoma) Median of 2 prior lines, median of 2 prior lines in cut. melanoma		6.0	not reached		
IMA203 in Melanoma	1a (Dose Escalation)	11	73% cutaneous 18% uveal 9% other	0% n=1, 27% n=2, 73% n>2 prior lines 100% received prior CPI (median of 2 prior lines of CPI, median of 2.5 prior lines of CPI in cut. melanoma) Median of 4 prior lines, median of 4.5 prior lines in cut. melanoma	2.6	6.3
IMA201/202/203 combined in Melanoma	1a (Dose Escalation)	19	63% cutaneous 11% uveal 26% other	0% n=1, 16% n=2, 84% n>2 prior lines 100% received prior CPI (median 3 prior lines of CPI) Median of 4 prior lines, median of 4.5 prior lines incut. melanoma	2.5	5.3
Lifileucel (C-144-01, Cohort 2+4) ¹	2	153	54% cutaneous 0% uveal 45% other	median of 3 prior lines (min/max: 1/9) 100% received prior CPI	4.1	13.9
Tilsotolimod + Ipilimumab (ILLUMINATE-301) ²	3	238	85% cutaneous 0% uveal 15% other	57% n=1, 27% n=2, 12% n>2 prior lines 99% received prior CPI	2.9	11.6
Nivolumab + Relatlimab (RELATIVITY-020, D1 Cohort) ³	1/2	354	68% cutaneous 0% uveal 32% other	46% n=1, 35% n=2, 19% n≥3 prior lines 99% received prior CPI	2.1	14.7

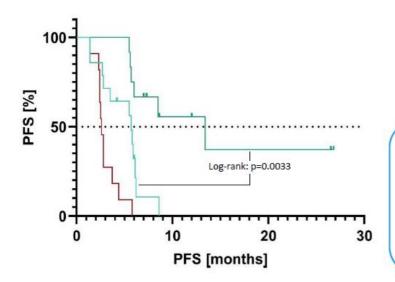
These data are derived from different clinical trials at different points in time with differences in trial design and patient populations. As a result, crosstrial comparisons cannot be made, and no head-to-head clinical trials have been conducted.

IMA203 ¹ Chesney et al., 2022; ² Diab et al., 2024; ³ Ascierto et al., 2023.

Enhanced PFS in Phase 1b Melanoma Patients with Deep Responses



N=26#



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

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

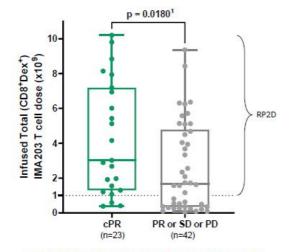
IMA203

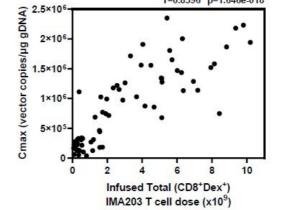
Excluding two patients that were infused but did not have their first tumor assessment post baseline at data-cut
*Includes one patient with oneoine SD 4.4 months after infusion with tumor reduction <50%

Dose Response Relationship



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





IMA203 T Cell Dose is Associated with Clinical Activity

IMA203 T Cell Dose Correlates with T Cell Exposure

r=0.8396 p=1.646e-0182

IMA203 PD: Pr

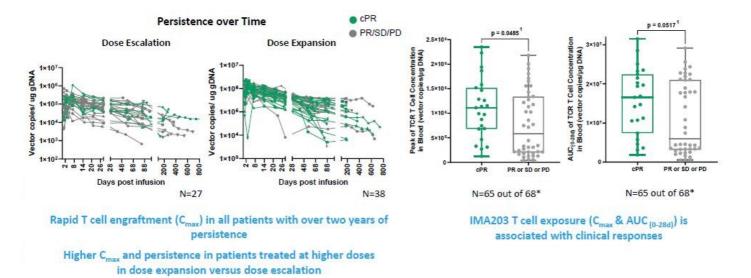
*Mann-Whitney U test, *Spearman Correlation; * no data available yet for patients recently treated;

PD: Processing Diseases SD: Stable Diseases 99: Partial Responses 999: Configured Partial Responses 9990; recommended phase 2 does

Exposure Response Relationship



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



IMA203 1 Mann-W

Mann-Whitney U test; * no data available yet for patients recently treated;

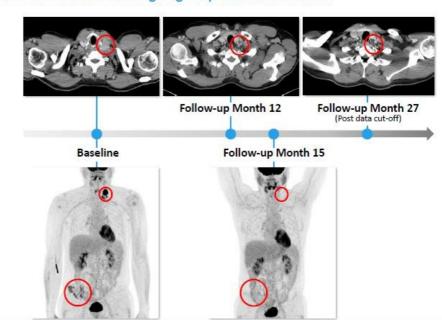
Patient Case A-DL4-03: Cutaneous Melanoma



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

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

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

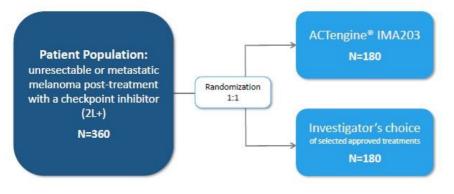


IMA203 Images courtesy of treating physician (Dr. Martin Wermke, University of Dresden)

SUPRAME: Registration-enabling Randomized Phase 3 Trial



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



Endpoints

- Primary Endpoint
 - · PFS
- Secondary Endpoints
 - Safety
 - · ORR + DOR
 - No OS detriment
 - Patient-reported outcomes (EORTC QLQ-C30, EQ-5D-5L)

Next Steps

- SUPRAME Phase 3 trial is projected to commence in December 2024
- · Pre-specified interim analysis planned after approx. 200 patients enrolled
- · Full enrollment anticipated by late 2026

IMA203 mPFS; median progression-free survival, ORR; objective response rate; Scientific Advice Meeting with Paul-Ehrlich-Institute, the German regulatory authority

ACTengine® IMA203 TCR-T Monotherapy Targeting PRAME in Melanoma

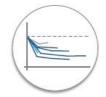


Summary of Clinical Data



Tolerability

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



Anti-Tumor Activity & Durability

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



PFS & OS

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



Biological Data

T cell dose and exposure are significantly associated with clinical response



Broad Reach

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

SUPRAME Phase 3 trial is projected to commence in December 2024

IMA203 Data cut-off Aug 23, 2024 26

IMA203 in Melanoma Targeted to Enter Randomized Phase 3 Trial in 2L+ Melanoma in 2024



Clinically and Commercially Attractive Features of IMA203

≥95% of cutaneous melanoma patients are PRAME-positive

Favorable tolerability profile mostly mild to moderate CRS, infrequent ICANS (6% Gr1, 4% Gr2, 4% Gr3), no treatment related deaths

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

Leukapharesis as source for cell product, no surgery required

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

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

High Unmet Medical Need in Cutaneous and Uveal Melanoma

	Cutaneous Melanoma	Uveal Melanoma
Patient Population	2L+ CPI-refractory, BRAF/MEK inhibitor- refractory if BRAF mutation+	2L+ Kimmtrak-refractory, CPI/chemotherapy- refractory
IMA203 Opportunity	~3,000 HLA-A*02:01 and PRAME- positive cutaneous melanoma patients annually in the US¹	~300 HLA-A*02:01 and PRAME- positive uveal melanoma patients annually in the US ²

IMA203

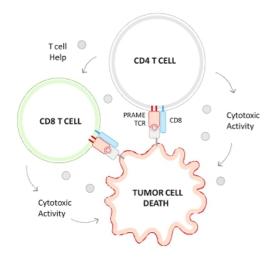
CPI: Checkpoint inhibitor; ¹ Based on annual mortafty of "7,700 cutaneous melanoma patients in the US, HLA-A"02:01 prevalence of 41% in the US and PRAME prevalence of 93% (TCGA RNAseq da combined with proprietary MS-guided RNA expression threshold): Based on annual mortality of "800 uveal melanoma patients in the US, HLA-A"02:01 prevalence of 41% in the US and PRAME prevalence of 39% (MADDECET OPER testing of screening biogoles from clinical tribusions) in the patients of 41% in the US, HLA-A"02:01 prevalence of 41% in the US and PRAME prevalence of 39% (MADDECET OPER testing of screening biogoles from clinical tribusions).

Data cut-off Aug 23, 2024

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



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



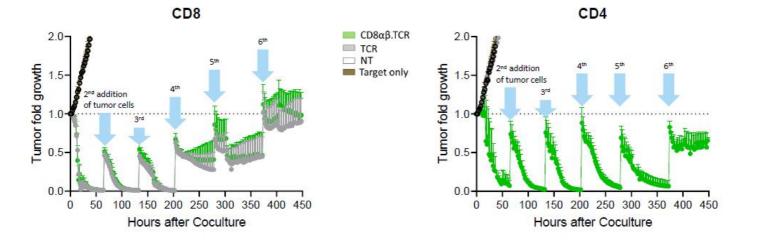
- IMA203CD8 (GEN2) designed to broaden the clinical potential of IMA203 TCR-T monotherapy by adding functional CD4 T cells via co-transduction of $\text{CD8}\alpha\beta$ alongside PRAME TCR
- Activated CD4 T cells aid activity of other immune cells by releasing cytokines and acquire cytotoxic functions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

IMA203CD8

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



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

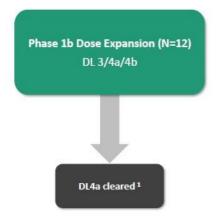


IMA203CD8

IMA203CD8 (GEN2) – Overview of Patient Characteristics



Data cut-off as of Sep 30, 2023



	All Comers
Efficacy population*	N=12
Prior lines of systemic treatment (median, min, max)	3 (1, 5)
LDH at baseline >1 x ULN [% of patients]	50.0
Baseline tumor burden Median target lesion sum of diameter [mm] (min, max)	79.8 (20.0, 182.0)
Dose level	DL3/DL4a/DL4b

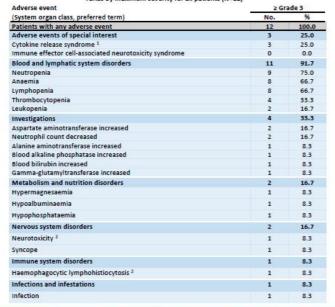
IMA203CD8

* Potients with at least one available tumor response assessment post influsion; IMA203CD8 0LS: 0.2-0.48x10⁶TCR-T celts/m² BSA, IMA203CD8 0L4s: 0.48t-0.2x10⁶TCR-T celts/m²

Tolerability Data - IMA203CD8 (GEN2)

All ≥Grade 3 Adverse Events (N=12)

TEAEs by maximum severity for all patients (N=12)





- Manageable tolerability
- Most frequent ≥Grade 3 AEs were expected cytopenia associated with lymphodepletion
- No IMA203CD8-related Grade 5 Adverse Events¹
- · Dose escalation ongoing

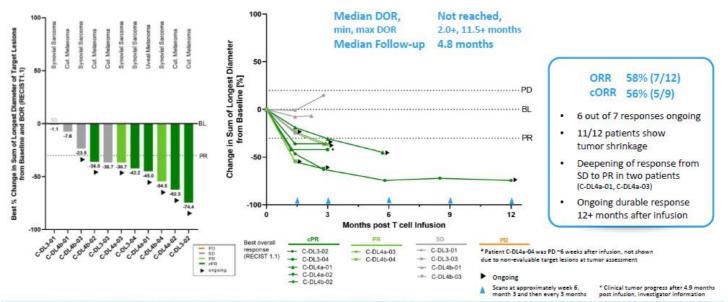
All treatment-emergent adverse events (TEAEs) with a Grade 3 regardless of relatedness to study treatment that occurred in at least 1 patient (except for ICANS, where no event was documented; listed for completeness due to being an adverse event of special interest) are presented. Adverse events were coded using the Medical Dictionary for Regulatory Activities. Grades were determined according to National Cancer Institute Common Terminology Criteria of Adverse Events, version 3.0. Grades for CR3 and ICANS were determined according to CARTOX criteria (Neelagu et al., 2013). Patients are counted only once per adverse event and severity classification. Based on interim datas extracted from open clinical database (30-Sep-2023); *DLT: Dose limiting toxicity in patient DL4b-04. *DLTs in patient DL4b-04.

IMA203CD8 Subsequent to data cut-off a Grade 5 ever by the immunosuppression, a high-grade In mmediate cause of death was considered to be fatal sepsis, aggravated cytosis-Like Syndrome (IEC-HS), and the fast-progressing disease.

IMA203CD8 (GEN2) (N=12#) - BOR and Response over Time



Data cut-off Sep 30, 2023



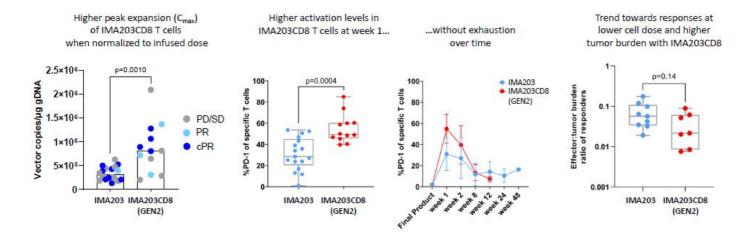
IMA203CD8

Initial ORI, Objective response rate according to SECST 1.3 at we post bindion ears, Confirmed ORIS (CORS); Confirmed objective response rate according to SECST 1.0 or patients with at least two available post bindion scars or patient, with progressive desires [DORI in confirmed Price or Initial Confirmed Price or In

IMA203CD8 (GEN2): Translational Data Shows Enhanced Pharmacology



IMA203 Phase 1b vs IMA203CD8 (GEN2)



Initial translational data indicates higher biological and clinical activity of IMA203CD8 (GEN2)

IMA203CD8 %PD-1 of specific T cells at week 1: for patient A-DL5-05 data not available for week 1

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



Summary of IMA203CD8 Clinical Data and Planned Next Steps

- Enhanced primary and secondary pharmacology when compared to IMA203
- Manageable tolerability (2 DLTs at DL4b, dose escalation ongoing)
- Initial clinical activity observed with differentiated response pattern
 - 56% (5/9) cORR
 - · 6 out of 7 responses ongoing at data cut-off, durable response at 12+ months
 - SD converting to PR over time (N=2)
 - Enhanced biological efficacy with PRs at lower T cell:tumor cell ratio compared to IMA203

Next Step

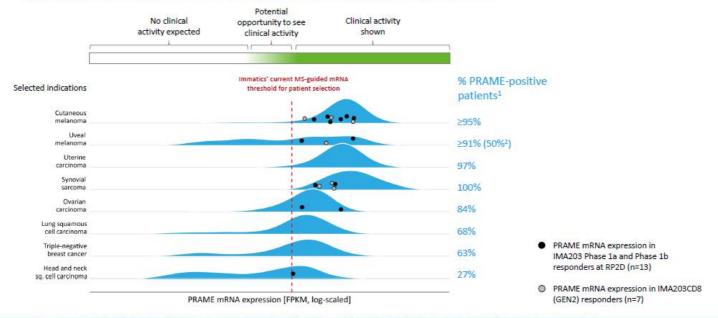
Clinical footprint expansion outside of melanoma in addition to treating melanoma patients

IMA203CD8 Data cut-off Sep 30, 2023 34

Potential of IMA203 in Additional Solid Cancer Indications



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



IMA203

AAME target expression distribution (bits: histogram) based on TGGA RIALecq data, potient data [ainck dots] based on MADetect.* gFCR testing of screening biogaies; FFRAME target prevalence is based on TGGA RIALecq data combital proprietary by Expuded RIALe appression threshold. FFRAME target prevalence in our animal members and proprietation for the strength of STAME in metastasis of uveal inclaimants. In the strength of STAME is metastasis of uveal inclaimants.

In the strength of STAME is metastasis of uveal inclaimants. In the strength is the strength of STAME is metastasis of uveal inclaimants. In the strength is the strength of STAME is metastasis of uveal inclaimants.

ACTengine® IMA203 / IMA203CD8 TCR-T Monotherapy Targeting PRAME



Leveraging the Full Breath of PRAME in Three Steps

Step 1 Further dose escalation in melanoma followed by signal finding in ovarian cancer and uterine cancer in dedicated dose expansion cohorts with IMA203CD8 (GEN2) Pursue tumor-agnostic label in PRAME+ solid cancers to leverage full breadth of PRAME - including NSCLC, triple-negative breast cancer and others

IMA203



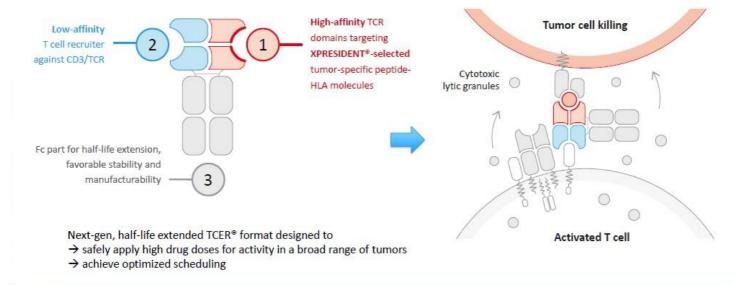


TCER® – TCR Bispecifics

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



Proprietary TCER® Format Consisting of Three Distinct Elements



TCER®

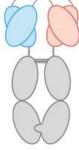
TCER® - Immatics' Next-generation, Half-Life Extended Bispecifics





pHLA targeting TCR

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



2 T cell recruiting antibody

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

Next-generation TCER® format

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

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

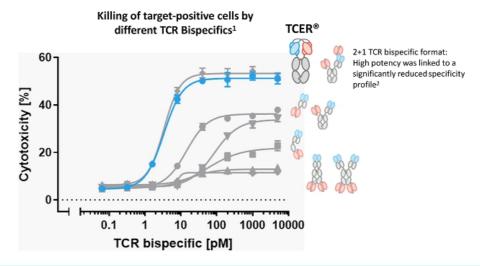


¹ As compared to natural TCR; ² Based on literature data for other low-affinity recruiters (e.g. Harber *et al.*, 2021, Nature; Trinklein *et al.*, 2019, mAbs);

§ Production in mammalian calls (CNO calls). Spaced on practicinal taction.

Potency of Our Proprietary TCR Bispecific Format TCER®





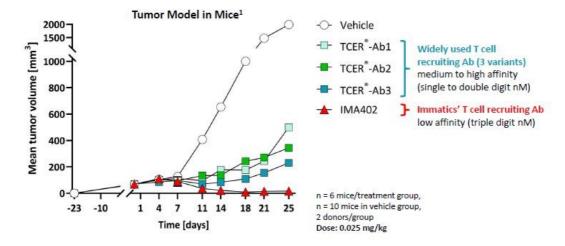
- Seven different TCR Bispecific formats were evaluated with a pHLA targeting TCR and the identical T cell recruiting antibody
- TCER® format had higher combination of potency and specificity² than six alternative TCR Bispecific format designs evaluated Flexible Plug-and-play platform: TCER® format successfully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

TCER® 1Data presented at SITC 2022; 2Preclinical data on specificity not shown

TCER® Format Is Designed for Optimized Efficacy and Safety



Superior Tumor Control Using a Novel, Low-Affinity Recruiter



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

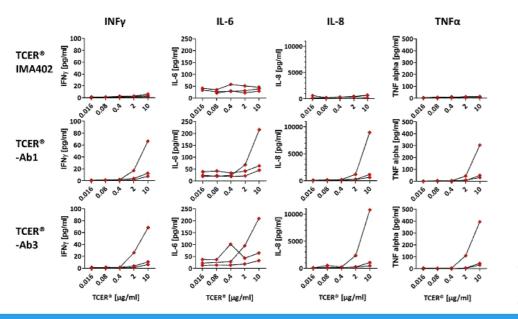
TCER®

1 Hs69ST vengeraft model in NOG mice, tumor volume of group means show

TCER® Format Is Designed for Optimized Efficacy and Safety



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



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

TCER®

Our TCER® Portfolio



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

IMA401 CLINICAL **IMA402**

- MAGEA4/8 peptide presented by HLA-A*02:01
- Dose escalation ongoing, first clinical data presented at ESMO 2024

• PRAME peptide presented by HLA-A*02:01

• Start of clinical trial in Aug 2023, first clinical data expected 2H 2024

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

IMA40x programs

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

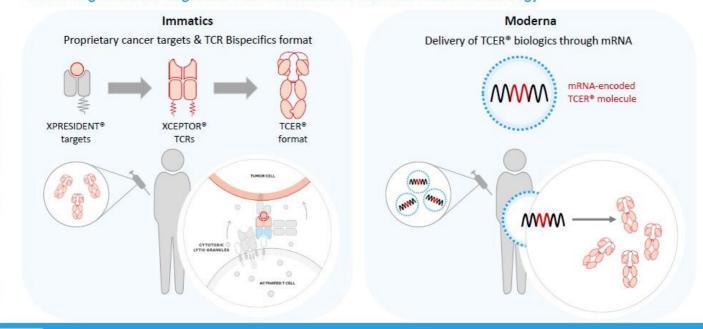
The current collaboration with Moderna includes the development of mRNA-enabled in vivo expressed TCER® molecules

TCER®

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



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



TCER®





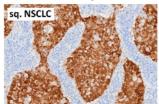
TCER® IMA401 Targeting MAGEA4/8

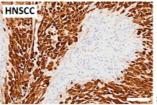
TCER® IMA401 Targeting MAGEA4/8

Higher Target Density of MAGEA4/8 Peptide



MAGEA4 protein detection in tumor samples (IHC)





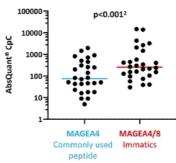
100 μm

MAGEA4/8 target prevalence in selected cancer indications

Target prevalence ¹ [%]	Number of addressable patients*
52%	22k
36%	7k
29%	9k
23%	4k
23%	3k
21%	4k
20%	2k
14%	3k
18%	2k
9%	6k
	[%] 52% 36% 29% 23% 23% 21% 20% 14% 18%

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

MAGEA4 and MAGEA4/8 Peptide (AbsQuant*)



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

IMA401

MAGEA4/8 target prevalences are based on TCGA and in-house data combined with a XPRESIDENT-determined target individual MS-based mRNA expression threshold; qPCR-threshold for patient screening; *Students paired T test; *Copy number per tumor cell (CpC) measured on a paired-sample basis by AbsQuant*, i.e. comparing MAGEA4 vs. MAGEA4/8 peptide presentation on same sample

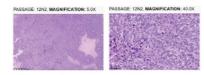
TCER® IMA401 (MAGEA4/8) - Assessment of Anti-Tumor Activity in vitro

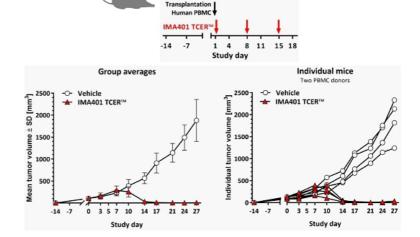


Patient-Derived Tumor Model

NSCLC adenocarcinoma:

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





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

IMA401

LXFA 1012 Tumor Xenograft Model in NOG Mice

Trial Design - IMA401-101 Phase 1a Dose Escalation



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



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

Objectives

Primary:

· Determine MTD and/or RP2D

Secondary:

- Tolerability
- Pharmacokinetics
- · Initial anti-tumor activity

Key Eligibility Criteria

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

IMA401

Step dosing with 300 µg and 600 µg introduced at DL6; Low-dose denamethasone pre-medication used at higher dose levels as used with other approved bispecific products has been implemented as preventive measure for continued dose escalation; Patients can increase their dose to previously cleared dose levels; "Q2w; once every two weeks, weekly [q1w] dosing we applied up to D15. "IMDEpetical" promotives weekly many used many used in the dose which is the product of the dose weekly [q1w] dosing we applied up to D15. "IMDEpetical" promotives weekly [q1w] dosing we applied up to D15. "IMDEpetical" promotives were M18. As a vice in many in M2 besides they have a previously cleared one with the dose when the dose were dose were dose when they were done with the dose were done when the dose were done when they were done when they were done were done when they were done when they were done were done when they were done when they were done were done when they were done when they were done when they were done were done when they were done when they were done when they were done were done when they were done which were done when they were do

Data Cut-011 Jul 23, 2024

Baseline Characteristics



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

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

IMA401

r clinical EAS; ²Patients in Data cut-off Jul 23, 2024 49

IMA401 Demonstrates Manageable Tolerability in N=35 Patients



Most Frequent Related AEs were Lymphopenia, CRS and Neutropenia

Treatment-related AEs1, n [%]	All Grades	≥ Grade 3
Lymphopenia	12 [34]	11 [31]
Cytokine release syndrome	11 [31]	0
Neutropenia	8 [23]	5 [14]
Facial pain	6 [17]	2 [6]
Anaemia	5 [14]	4 [11]
Thrombocytopenia	5 [14]	2 [6]
Headache	5 [14]	1[3]
Hypertension	4 [11]	2 [6]
Leukopenia	4 [11]	2 [6]
Fatigue	4 [11]	0
Nausea	3 [9]	0
Нурохіа	2 [6]	1 [3]
Aspartate aminotransferase increased	1 [3]	1[3]
Febrile neutropenia	1 [3]	1[3]
Pneumonia	1 [3]	1[3]
Sinus tachycardia	1[3]	1[3]

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

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

IMA401

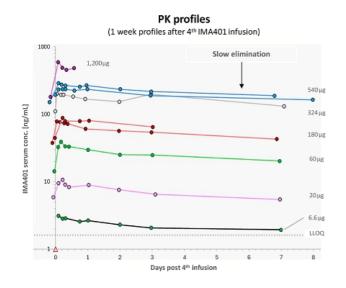
All treatment-emergent adverse events (TEAEs) at least possibly related to IMA601 infusion with grade 1-2 occurring in at least 9% of patients and all events with grade 3-5; with three dose-limiting events at 2.5 mg (OLT), neutropenia observed in patients with and without dexamethasone pre-medication; reported in Annual Report 2023, patient did not receive dexamethasone pr

Data cut-off Jul 23, 2024

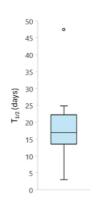
IMA401 Pharmacokinetics



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



Median half-life: 16.9 days (N=16)¹



Observed T_{1/2} > 2 weeks

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

IMA401

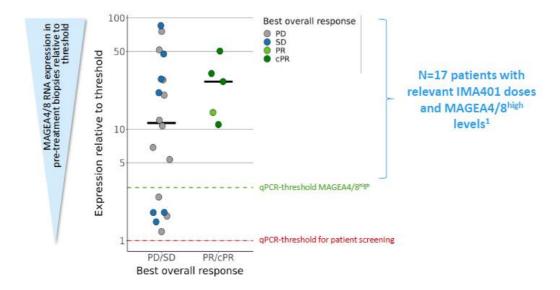
Half-lifes derived from 2nd PK profiles close to steady-state. Calculated by non-compartmental analysis (NCA) using Phoenix WinNonlin (Certara); interquartile range (25%-75% percentil 13.5-22.2 days; 40ata presented at European Antibody Congress 2020; Zinn et al., Nature Concer, 2023; https://doi.org/10.1038/s43018-023-00516-2; LLOQ: lower limit of quantification; advances every four weaks. (2015) Checksockel this highlitor.

Data cut-off Jul 23, 2024



Objective Responses are Associated with Target Expression

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

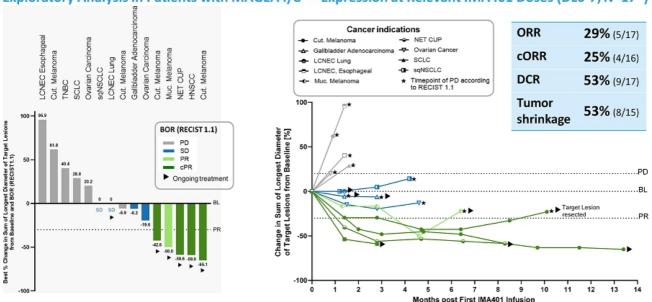


IMA401

IMA401 Demonstrates Initial Anti-Tumor Activity in Multiple Tumor Types



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



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

*Patients in this analysis are part of the efficacy analysis set with at least one post-treatment tumor assessment and had received IMA401 influsions at ≥1 mg and showed MAGEA/8 target expression higher than the MAGEA/8 QPCR threshold (n=17); Confirmed ORR (cORR); Confirmed objective response rate according to RECIST 1.1 for patients with at least two available post influsion scars or patients with progressive disease (PD) at any prior timepoint, two patients with at least two available post influsion scars or patients with progressive disease (PD) at any prior timepoint, two patients with at least two available post influsion scars or patients with progressive disease.

Data cut-off Jul 23, 2024

Clinical Activity in Heavily Pre-Treated Cancer Patients



Follow Up Week 13

63-year-old male, HNSCC, MAGEA4/8^{high}

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

Baseline MRI

Baseline CT Follow Up Week 13











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

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

IMA401

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



Presentation at ESMO on September 16, 2024

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

AE: Adverse Event; CRS: Cytokine Release Syndrome; CPI: checkpoint inhibitors; q4w; once every four weeks; HNSCC: Head and neck squamous cell carcinoma; PR: Partial Response

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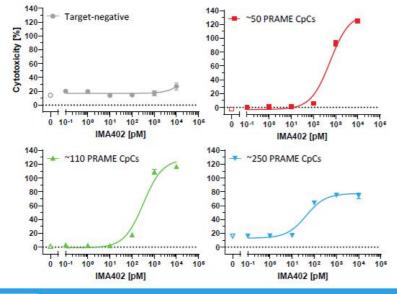


TCER® IMA402 Targeting PRAME

TCER® IMA402 Targeting PRAME - Efficacy Assessment in vitro



Tumor Cell Killing at Low Physiological PRAME Peptide Levels

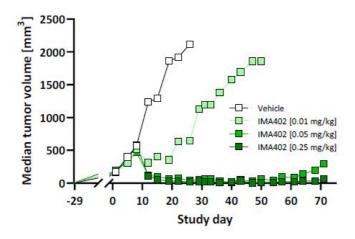


- TCER® IMA402 induces killing of tumor cells with PRAME target copies as low as 50 CpCs
- Physiological PRAME levels detected in majority of cancer tissues from patients are 100 - 1000 CpCs
- Preclinical activity profile enables targeting of a broad variety of tumor indications, such as lung cancer,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

IMA402 CpC: Target peptide copy numbers per tumor cell

TCER® IMA402 Achieves Durable Tumor Control of Large Tumors in vivo



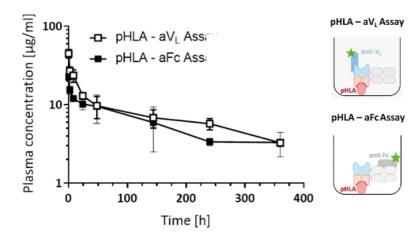


- Dose-dependent efficacy of IMA402 in cell line-derived in vivo mouse model
- Durable shrinkage of large tumors including complete responses over prolonged period
- Sufficiently high drug doses are key to achieving desired anti-tumor effect

IMA402 5a

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





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

IMA402 59

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



First Clinical Data Planned in 2H 2024

Trial Overview Phase 1: Dose Escalation Phase 2a: Dose Expansion **Expansion cohort** Phase 1/2 clinical trial to Adaptive design MTD/ evaluate safety, tolerability and aimed at accelerating **Expansion cohort** RP2D anti-tumor activity of IMA402 dose escalation **Expansion cohort** HLA-A*02:01-positive patients with · Basket trial in focus indications to · Specific indications plus PRAME-expressing recurrent and/or

- refractory solid tumors Initially weekly i.v. infusions
- Potential for early adjustment of treatment interval based on PK data of half-life extended TCER® format
- accelerate signal finding
- · Ovarian cancer, lung cancer, uterine cancer, melanoma, others

ongoing basket

Combination therapies

 Optional dose/application optimization

IMA402

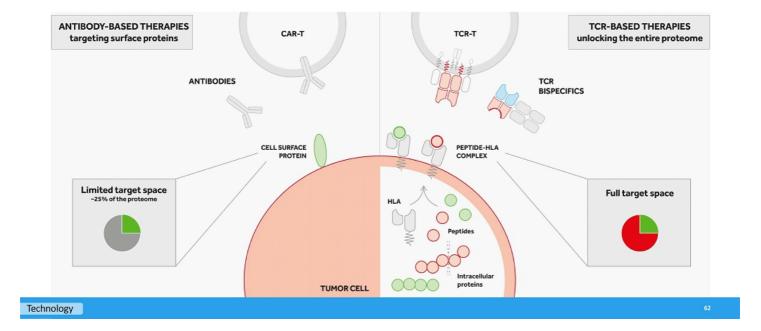




Immatics' Proprietary Target and TCR Discovery Platforms

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

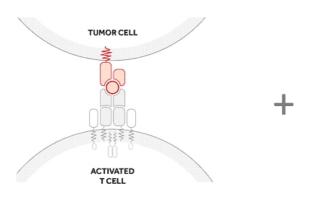




True Cancer Targets & Matching Right TCRs

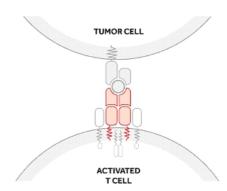


Goal to Maximize Anti-Tumor Activity and Minimize Safety Risks of TCR-based Immunotherapies





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



Right TCRs via XCEPTOR® technology platform

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

Technology 63

Pool of 200 Prioritized Targets as Foundation for Future Value Generation



XPRESIDENT® Target Platform



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

Technology

- 64

Potential for Large Patient Populations across Multiple Solid Cancers



IMA203 / IMA402 **PRAME**

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

IMA401 MAGEA4/8

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

IMA204 COL6A3 Exon 6

Pancreatic Carcinoma - 76% Breast Carcinoma - 77% Stomach Carcinoma - 67% Sarcoma - 63% Colorectal Carcinoma - 60% Esophageal Carcinoma - 60% Squamous NSCLC-55% Adeno NSCLC-57% HNSCC-56% Uterine Carcinosarcoma – 50% Mesothelioma - 44% Cholangiocarcinoma - 36% Melanoma - 35% Bladder Carcinoma - 34% Ovarian Carcinoma - 31%

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



Technology

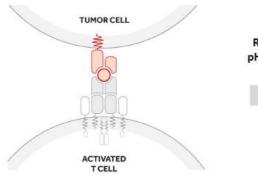
Target prevalence for selected solid cancer indications are based on TCSA (for SCIC: in-house) RNAseq data combined with a proprietary mass spec-guided RNA expression threshold;

Uveal melanoms target prevalence is based on IMADetect* qPCR testing of screening biopsies from clinical trial patients (n=81)

Immatics' Unique Capability – Identification of the most Relevant Target

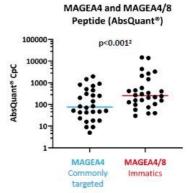


Example of MAGEA4/8 Peptide Target



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





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

Technology

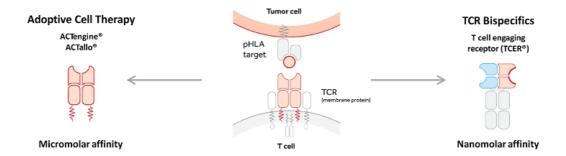
1 Copy number per tumor cell (CoC) measured on a paired-sample basis by AbsQuant® i.e. comparing MAGEA4 vs. MAGEA4/A8 peotide presentation on same sample. 2 Students paired T test

-

Development of the Right TCR - XCEPTOR® Technology



TCR Discovery and Engineering for ACT and TCR Bispecifics



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

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

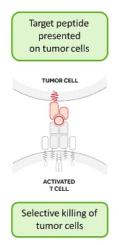
Technology

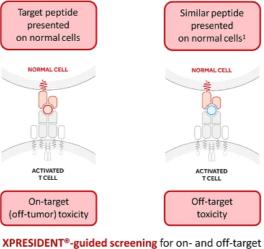
XPRESIDENT®-guided off-target toxicity screening: 3 XPRESIDENT®-guided similar pentide counterselection

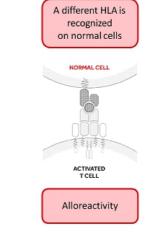
Optimal Target Selection & TCR Specificity for Minimizing Safety Risks



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







toxicities of TCRs based on the extensive database of peptides presented on normal tissues

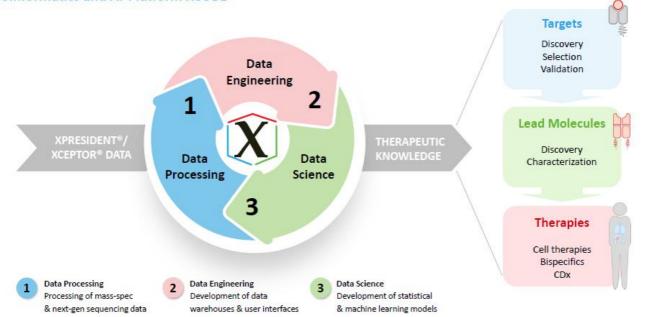
Technology

Clinical fatalities have occurred in TCR-T trials using a titin cross-reactive TCR (Cameron et al., Sci Transl Med

"Al Is Where the Data Is®"



Bioinformatics and AI-Platform XCUBE™

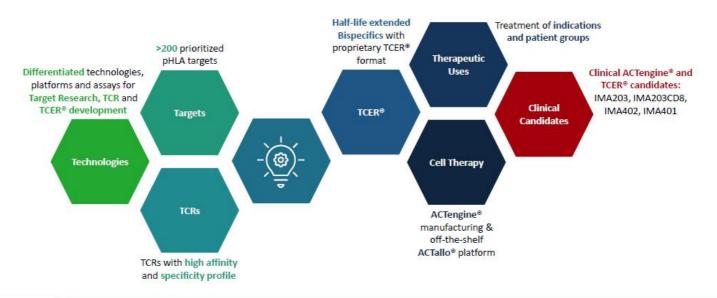


Technology

Immatics' Robust Intellectual Property Portfolio



Protection Strategy of Key Assets in Major Markets and Beyond



Technology 70





ACTengine® IMA204 – TCR-T Targeting COL6A3 Exon 6

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



Key Features

TARGE

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

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

MA204

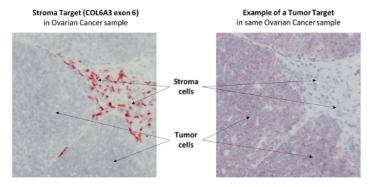
¹ Target density: peptide copy number per tumor cell, approximate range representing the majority of tumor samples analyzed; ² Functional avidity: EC50 half maximal effective concentration; ³ Solid cancer indications with 20% or more target expression, Target prevalence for selected cancer indications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

-

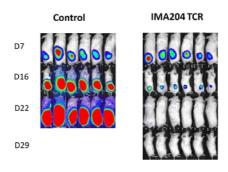
ACTengine® IMA204 - High Affinity, CD8-independent TCR



Complete Tumor Eradication in vitro & in vivo1 by Affinity-enhanced IMA204TCR



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



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

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

IMA204

n vivo data in collaboration with Jim Riley, University of Pennsylvania, control; non-transduced T cells, TCR avidity and specificity data not shown, available in IMA204 presentation on Immatics website.

/3

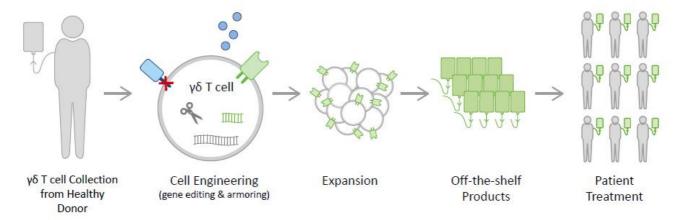




ACTallo® – Our Next-generation Off-the-shelf TCR-T

ACTallo® - Immatics' Allogeneic Cell Therapy Approach





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

ACTallo[®]

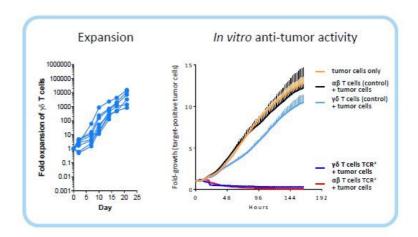
Why γδ T cells?



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

γδ T cells

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



ACTallo®





Corporate Information & Milestones

Experienced Global Leadership Team Across Europe and the US





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



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



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



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



Rainer Kramer
Chief Business Officer
P25 yrs pharma & biotech experience
(Amgen, MorphoSys, Jerini,
Shire, Signature Dx)



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



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



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



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

Corporate

Strong, Focused and Highly Integrated Trans-Atlantic Organization





Corporate

FTEs as of June 30, 2024

Delivering

the Power of T cells to Cancer Patients



