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Phase 1 dose escalation of IMC-F106C, the first PRAME × CD3 ImmTAC bispecific protein in solid tumors

September 9, 2022

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Overview & ImmTAC Platform

Bahija Jallal, PhD – Chief Executive Officer



Phase 1 study of IMC-F106C Targeting PRAME

Omid Hamid, MD - Cedars-Sinai Cancer, the Angeles Clinic & Research Institute

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Next steps for IMC-F106C David Berman, MD, PhD – Head of R&D



Concluding Remarks Bahija Jallal, PhD – Chief Executive Officer

Q&A Session

We are defining a new frontier of cancer treatment



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Omid Hamid, MD

Chief, Translational Research and Immunotherapy and Co-Director, Melanoma Therapeutics



Internationally recognized leader in immuno-oncology drug development and melanoma therapeutics

Investigator in the initial trials with ipilimumab, pembrolizumab, nivolumab, atezolizumab and vemurafenib

Current focus on next-generation checkpoint inhibitors, T cell adoptive therapies and bispecific antibodies

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Phase 1 dose escalation of IMC-F106C, the first PRAME × CD3 ImmTAC bispecific protein in solid tumors

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DECLARATION OF INTERESTS

Dr Omid Hamid

Advisory/Consulting: Aduro Biotech, Akeso Biopharma, Alkermes, Amgen, BeiGene, BioAtla, BMS, Genentech, GlaxoSmithKline, Idera, Immunocore, Incyte, Iovance Biotherapeutics, Janssen, Merck, NextCure, Novartis, Pfizer, Regeneron, Roche, Sanofi, Seattle Genetics, Tempus, Zelluna; Speaker's Bureau: BMS, Novartis, Pfizer, Sanofi/Regeneron

Honoraria: BMS, Novartis, Pfizer, Sanofi/Regeneron

Research Funding (Institute): Aduro Biotech, Akeso Biopharma, Amgen, Arcus Biosciences, Bioatla, BMS, CytomX Therapeutics, Exelixis, Genentech, GlaxoSmithKline, Idera, Immunocore, Incyte, Iovance Biotherapeutics, Merck, Merck Serono, Moderna Therapeutics, NextCure, Novartis, Pfizer, Regeneron, Roche, Rubius Therapeutics, Sanofi, Seattle Genetics, Torque, Zelluna

DISCLAIMER

All statements contained in this presentation are based on preclinical and clinical trial data related to an investigational molecule, IMC-F106C. Development of this molecule is ongoing and, therefore, statements relating to study data to date should not be regarded as definitive reflections of safety, efficacy or the risk-benefit profile of the molecule.



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IMC-F106C: ImmTAC targeting HLA-A2-presented peptide from PRAME (PRAME × CD3)





ImmTAC, Immune mobilizing T cell receptor Against Cancer; TCR, T cell receptor

Phase 1 Study Design

Dose escalation



Key eligibility criteria

- HLA-A*02:01 (central testing)
- Select advanced solid tumors
- Tumor PRAME by immunohistochemistry
 - High PRAME prevalence: enroll all comers; test retrospectively
 - All other indications: prospective confirmation of PRAME

Key objectives

Primary endpoint

Determine MTD/expansion dose

Secondary endpoints

- Preliminary antitumor activity
- Pharmacokinetics
- Pharmacodynamic markers





EudraCT No. 2019-004046-16; NCT04262466 Data cut-off date: 18 Jul 2022 IV, intravenous; MTD, maximum tolerated dose * Of 36 patients treated at target escalation dose of ≥20 mcg, 5 patients were excluded from efficacy analyses as they were PRAME-negative (n=2) or not yet had tumor assessment (n=3)

Strong and Consistent Pharmacodynamic Activity at ≥20 mcg IMC-F106C T cell activation and re-direction into tumor seen across ImmTAC platform



Baseline patient characteristics

Characteristic	Safety Population N=55	Efficacy Population N=31 [†]
Age — median yr (range)	60 (26, 79)	61 (36, 79)
ECOG status 0 — n (%)	30 (55%)	19 (61%)
PRAME status (IHC)		
Positive	49 (89%)	28 (90%)
Negative	2 (4%)	0
Not evaluable	4 (7%)	3 (10%)
Median H-score	195	188
Tumor type		
Melanoma	34 (62%)	17 (55%)
Uveal (UM)	26 (47%)	11 (35%)
Cutaneous (CM)*	8 (15%)	6 (19%)
Ovarian Carcinoma	10 (18%)	5 (16%)
Serous (SOC)*	7 (13%)	4 (13%)
Non-serous	3 (5%)	1 (3%)
NSCLC	4 (7%)	4 (13%)
TNBC*	3 (5%)	3 (10%)
Endometrial*	4 (7%)	2 (6%)

- Median PRAME H-score in efficacy population was high, 188; most patients enrolled regardless of PRAME testing
- Patients in efficacy population were heavily pretreated
 - Ovarian: all platinum resistant
 - CM: all received prior anti-PD1 and anti-CTLA4
 - NSCLC: all received prior anti-PD1
 - TNBC and endometrial: 2-5 prior lines of therapy

* In efficacy population, these tumors enrolled regardless of PRAME immunohistochemistry (IHC) testing, which was evaluated retrospectively. NSCLC squamous also enrolled regardless of PRAME testing



† Of 36 patients treated at target escalation dose of ≥20 mcg, 5 patients were excluded from efficacy analyses as they were PRAME-negative (n=2) or not yet had tumor assessment (n=3)

IMC-F106C was well tolerated Most frequent related AE was Grade 1/2 CRS, consistent with proposed mechanism

Preferred Term (MedDRA v23.1)	0.3 – 10 mcg† (N=18)	20 – 320 mcg [†] (N=37)	Total (N=55)			
All Grades (events in ≥ 25% of patients), n (%)						
AT LEAST ONE EVENT	18 (100)	34 (92)	52 (95)			
Pyrexia*	10 (56)	21 (57)	31 (56)			
Cytokine release syndrome	5 (28)	22 (59)	27 (49)			
Fatigue	6 (33)	13 (35)	19 (35)			
Hypotension*	3 (17)	15 (41)	18 (33)			
Chills	9 (50)	8 (22)	17 (31)			
Nausea	7 (39)	10 (27)	17 (31) 15 (27)			
Rash	3 (17)	12 (32)				
Grade ≥ 3 (Events in > 1 patient), n (%)						
AT LEAST ONE EVENT	6 (33)	13 (35)	19 (35)			
Lymphopenia	1 (6)	7 (19)	8 (15)			
Aspartate aminotransferase increased	3 (17)	1 (3)	4 (7)			
Anemia	1 (6)	2 (5)	3 (5)			
Alanine aminotransferase increased	2 (11)	0	2 (4)			
Arthralgia	1 (6)	1 (3)	2 (4)			
Pyrexia*	0	2 (5)	2 (4)			

- MTD not reached
- No treatment-related discontinuation or Grade 5 adverse events
- CRS events were all manageable
 - Majority (77%) within first 3 doses
 - 71% Grade 1
 - 29% Grade 2
 - No Grade ≥ 3 CRS
- Adverse events attenuate over time



* Includes events reported as a sign/symptom of CRS

+ Safety presented by intended target escalation dose on Day 15. 1/37 patients received only a single dose of 2 mcg and did not reach target dose of ≥ 20 mcg

Responses observed in multiple tumor types

PRAME expression[‡]
Positive

Not evaluable



* Two patients (1 with NSCLC, 1 serous ovarian) discontinued treatment due to PD with scan data not available at DCO

† Ovarian cancer patient with unconfirmed PR (uPR) remains on treatment and eligible for confirmation

‡ PRAME expression assessed by IHC H-score

congress

PARIS 2022

Two PRAME-negative patients both had PD (not shown)

Endo, endometrial carcinoma; NSCLC, non small cell lung carcinoma; TNBC, triple-negative breast cancer;

Majority of patients have durable tumor response or disease stabilization



Responses are durable, 6 of 7 PRs still ongoing Two PRs ongoing for 7+ months





* PRAME expression assessed by IHC H-score

Endo, endometrial carcinoma; NSCLC, non small cell lung carcinoma; TNBC, triple-negative breast cancer; UM, uveal melanoma; ctDNA, circulating tumor DNA; ND, not yet determined (9 patients pending); NE, not evaluable; PR, partial response

Reduction in circulating tumor DNA observed across tumor types (n=20)[†]



- 4 PR patients evaluated for ctDNA had > 50% reduction, including 3 with clearance
- Two patients had ctDNA clearance despite best response of PD

† 20 of 31 efficacy evaluable patients had paired ctDNA. Data not yet available for 9 patients, including 3 PRs. Two patients did not have baseline detectable ctDNA.



B, triple-negative breast cancer; C, cutaneous melanoma; ctDNA, circulating tumor DNA; E, endometrial carcinoma; LA, non small cell lung adenocarcinoma; LS, non small cell lung squamous cell carcinoma; O, ovarian; U, uveal melanoma; CPI, checkpoint inhibitor; tebe, tebentafusp

Example responders: ovarian carcinoma and uveal melanoma

Patient #1

Ovarian cancer 5 prior lines, platinum resistant



Baseline



On treatment



Patient #2 Uveal Melanoma









Example responder: cutaneous melanoma Prior anti-CTLA4, multiple anti-PD1s and oncolytic virus

Patient #3 Baseline



Confirmed PR ongoing treatment 5+ months





Example responder: serous ovarian carcinoma 5 prior regimens including platinum, bevacizumab, anti-PD-1, investigational agents

Patient #4

Baseline



Confirmed PR ctDNA 67% decrease

nontarget PD at Month 8 but ongoing treatment 1+ yr





Conclusions

- IMC-F106C, first PRAME×CD3 ImmTAC, activates T cells and is well-tolerated
 - CRS is mostly Grade 1, no Grade ≥3, and predominantly during initial 3 doses
 - Treatment-related AEs are manageable; none have led to discontinuation or death
- Durable (up to 9+ months) RECIST PRs across multiple tumor types, including
 - Cutaneous melanoma, progressed following prior anti-PD1 and anti-CTLA4
 - Heavily pre-treated, platinum-resistant ovarian carcinoma
 - Uveal melanoma
- Benefit also apparent in disease control, including conversion of SD to PR
- Almost all evaluable patients, across multiple tumor types, have ctDNA reduction
 - Early reduction appears associated with clinical benefit
 - Complete ctDNA clearance common in melanoma
- Expansions open in cutaneous melanoma, NSCLC, endometrial and ovarian carcinoma
- Dose escalation continues and combinations with chemotherapy and checkpoint inhibitors planned



Thank you to all patients, their families and their caregivers who were involved in this global clinical trial & all investigators and their teams



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Juanita Lopez **Fiona Thistlethwaite Heather Shaw**

Royal Marsden NHS Foundation Trust and Institute of Cancer Research Anja Williams and Hendrik-Tobias Arkenau Sarah Cannon Research Institute, London The Christie NHS Foundation Trust University College London



IMC-F106C Clinical Development Plan

DAVID BERMAN Head of Research and Development





Insights from KIMMTRAK clinical development in mUM



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RECIST responses enriched at higher H score for PRAME



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1. Carvajal RD, et al. J Clinical Oncology 2022; 40:1939; 2. Davar D, et al. Ann Oncol 2021 32:S1411-S1413; 3. Hamid O et al. #7280 ESMO 2022

24 4. All KIMMTRAK-naïve patients in phase 1 trials, including those with H score =0. Excluded are patients with unevaluable H score and 5 mUM IMC-F106C patients who progressed on prior KIMMTRAK

IMC-F106C-101 designed as an adaptive Phase 1/2 study



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PRAME, validated as TCR target, expressed in many solid tumors

Prevalence of PRAME expression ¹	Tumor type	HLA*02:01+, PRAME+ metastatic patients (G7) ²		
	Endometrial	>10K		
70 4000/	Melanoma	>10K		
70-100%	Ovarian	>15K		
	NSCLC-squamous	>30K		
50-70% 20-50%	NSCLC-adeno	>40K		
	SCLC	>15K	Total >150,000	
	TNBC	>5K	•	
	SCCHN		PRAME+, HLA-A2 patients/year	
	Gastric	>30K		
	RCC			
	Esophageal			
	Cholangiocarcinoma			
	Cervical			

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1. PRAME prevalence derived from immunohistochemistry and RTqPCR of patient samples and analysis of TCGA

2. Epidemiology data from cancer registries and Decision Resources, Annual incidence of metastatic patients

Concluding Remarks

BAHIJA JALLAL Chief Executive Officer





Validation of ImmTAC platform in multiple solid tumors



Q&A Session



OMID HAMID, MD The Angeles Clinic Chief, Translational Research and Immunotherapy and Co-Director, Melanoma Therapeutics



BAHIJA JALLAL, PhD Chief Executive Officer



BRIAN DI DONATO Chief Financial Officer and Head of Strategy



DAVID BERMAN, MD, PhD Head of Research and Development



MOHAMMED DAR, MD Chief Medical Officer



Our pipeline

Leading bispecific TCR pipeline; FDA approval for KIMMTRAK®

	Candidate	Target	Indication	Pre-clinical	Phase 1	Phase 2	Phase 3	Approved	Anticipated Milestones
	KIMMTRAK®	gp100	Uveal melanoma						 ✓ FDA, EC, MHRA approvals ✓ Commercial launch 1H 2022
	Killin KAK gp100	gproo	Advanced melanoma						• Start Ph 2/3 study 4Q 2022
согосу —	IMC-F106C	PRAME	Multiple solid tumors						 ✓ Phase 1 data presented at ESMO ✓ Initiated 4 expansion arms (cutaneous melanoma, ovarian, NSCLC, & endometrial) • Dose escalation continues
ONC	IMC-C103C ¹	MAGE-A4	Multiple solid tumors						 Initiated ovarian expansion arm Phase 1 update 4Q 2022
	Candidate #4	Undisclosed	Multiple solid tumors						
INFECTIOUS DISEASES	Candidate #5	Undisclosed	Colorectal, gastric, pancreatic						
	IMC-I109V	Envelope	Hepatitis B Virus (HBV)						✓ Initial Ph. 1 data presented (EASL)
	IMC-M113V ²	Gag	Human Immunodeficiency Virus (HIV)						✓ Phase 1 first patient dosed

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¹ Developed under a co-development/co-promotion collaboration with Genentech. ² Program is wholly owned, development costs being provided by the Bill & Melinda Gates Foundation (BMGF), Immunocore retains all development and commercialization rights in the developed world.

Key portfolio milestones anticipated in 2022



~\$393M Adjusted cash and cash equivalents as of June 30, 2022¹

