

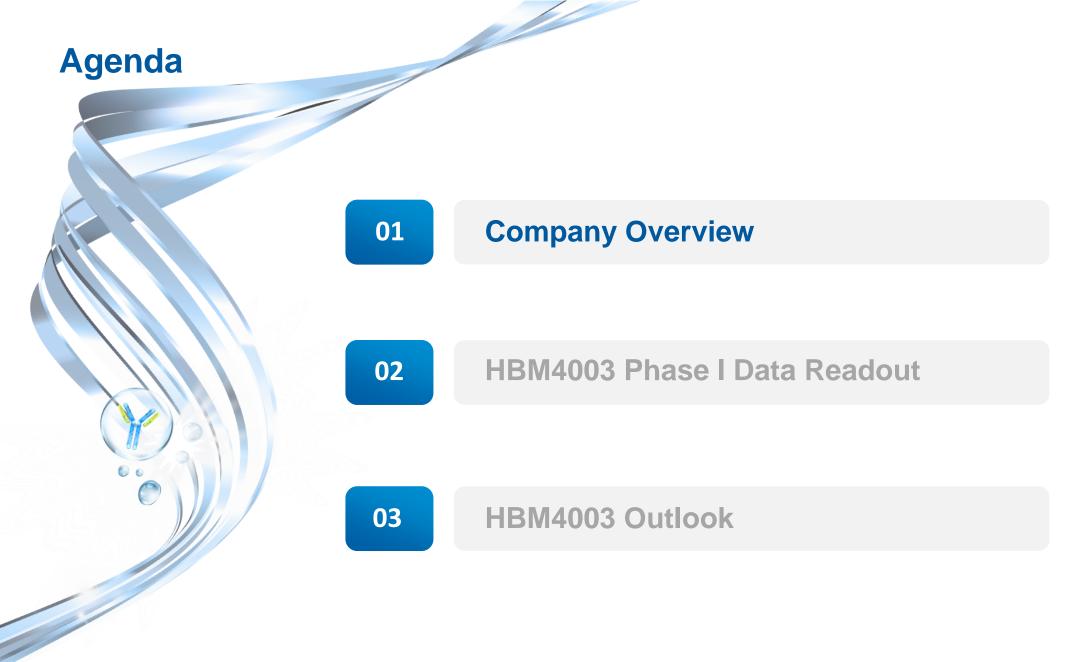
HBM HOLDINGS-B 02142.HK

www.harbourbiomed.com



Executive Summary

- Unmet medical needs: current anti-CTLA-4 monotherapy and combination therapies are still limited by safety profile
- HBM4003: a next generation anti-CTLA-4 fully human heavy-chain-only antibody with enhanced ADCC for Treg depletion
 - Endorsed by global leading experts in IO therapy aiming to transform the global IO landscape with breakthrough innovation
- Phase 1 trial: the preliminary data demonstrated favorable safety and efficacy
 - Well tolerated
 - Preliminary efficacy data are encouraging
- It represents significant clinical needs with potential to be backbone of next gen IO therapy
- Next step: global development kicked off aiming to unlock potential of broad tumor setting





Harbour Biomed Leading the Next Wave of Antibody Therapeutics in Immunology and Oncology

Differentiated Innovative Portfolio

Robust Product Portfolio

- 2 near-term commercialization assets
- 7 ongoing clinical trials
- 8 significant preclinical assets

Unique Market Position

first-in-class, T cell engager, bispecific antibodies



Harbour Biomed Leading the Next Wave of Antibody Therapeutics in Immunology and Oncology

Highly Effective and Disruptive Engine

Leading Discovery Platforms

- 3 fully human antibody platforms
- 1 single B cell technology

World Class Research Team

- 105+ discovery scientists, 60+ PhD
- 3 global research centers 👙 🧼 🔘
- 10+ in-house late-stage preclinical/clinical products within 4 years



Manufacturing Commercialization

8500 m² pilot factory in Suzhou Fast building core commercial team



Integrated Platforms Enable Sustainable Invention of Novel Molecules

Harbour Antibody Platforms Combined with Single B Cell Cloning Offers A Complete and Advanced Technology Solution for Consistently Discovering Next-Gen Fully Human Antibody Therapeutics





HBM1007

A allosteric fully human antibody against CD73 for the treatment of solid tumors

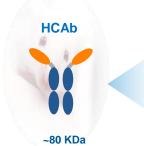


HBM7015

A bifunctional fusion protein for the treatment of solid tumors

Robust and highly efficient, global IP and clinically validated

HCAb —Next-Generation
Heavy-Chain-Only Antibody
Discovery Platform



♣ HBICE™

A Unique, HCAb-Based Platform For Immune Cell Engagers



HBM4003

A next generation anti-CTLA4 antibody

Unique fully human HCAb, versatile for broad applications

HBICE™ — HCAb-Based Platform for Immune Cell Engagers





₽ HBM7020

A BCMAxCD3 bispecific antibody



HBM7008

A B7H4×4-1BB bispecific antibody

Self-developed, unique geometric flexibility, promising bispecific biology

Antibody generation with Single B Cell cloning method in 3-5 months*

Animal Immunization
1-2 months

SBC 1 -2 weeks SC Sequence (1-2 weeks)

Recombinant Antibody (4-5 weeks)

Lead Characterization
1-2 weeks

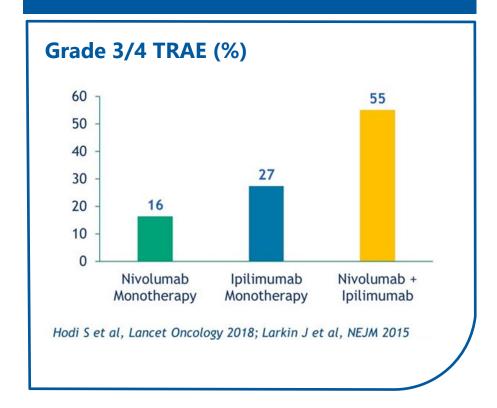
^{*} Traditional hybridoma method need 7-9 months with an additional 3-6 months of humanization

Agenda Company Overview 01 **HBM4003 Phase I Data Readout** 02 **Section 1: Target Selection & Molecule Overview** 03 **HBM4003 Outlook**

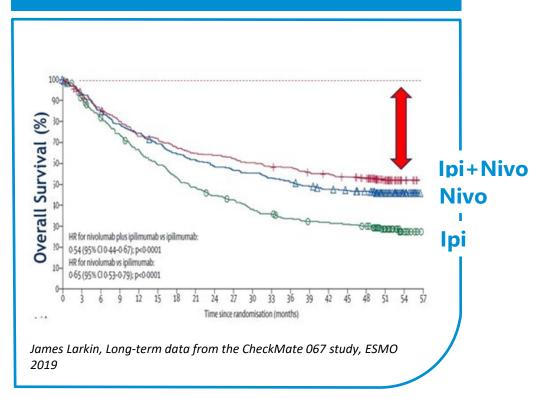


Current Anti-CTLA-4 Monotherapy and Combination Therapies are Still Limited by Safety Profile

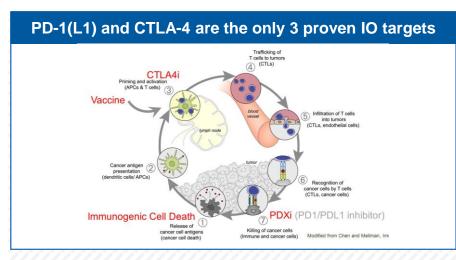
Toxicity limits the potential of PD-1/CTLA-4 combo

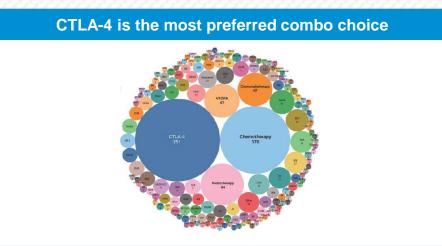


Increasing the therapeutic ceiling is the next step



HBM4003: Target Selection & Molecule Design Was Recommended & Endorsed by Global SAB Members & Thought Leaders to Achieve Breakthrough of IO Therapy





HBM4003 is endorsed by global leading experts in IO therapy aiming to transform the global IO landscape with breakthrough innovation



Dr. Robert Kamen

Venture Partner at Third Rock Ventures Former President & Unit Head of Abbott Bioresearch Centre



Dr. Shivaani Kummar

Director, Phase 1 Clinical Research Program, Division of Oncology Stanford School of Medicine

Professor of Medicine & Radiology at Stanford University Medical Centre

Specialty Sarcoma



Dr. Frank Grosveld

Fellow of Royal Society and Member of Royal Netherlands Academy of Arts and Sciences

Professor and former Head of Department of Cell Biology & Department of Clinical Genetics at Erasmus University Medical Center



Dr. Jon Wigginton

Chief Medical Officer, Cullinan Oncology; Advisos of MPM Capital

Former Therapeutic Area Head of Immuno-Oncology, Early Clinical Research at BMS

Former President of the Society for Immunotherapy of Cancer



Dr. John M Kirkwood

Distinguished Service Professor Medicine, University of Pittsburg

Usher Professor of Medicine, Dermatology, Clinical and Translational Science at The University of Pittsburg School of Medicine

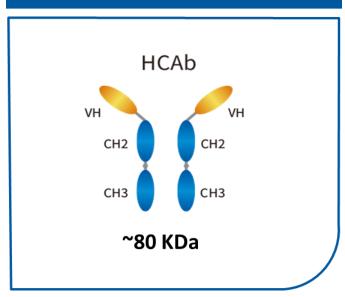
Specialty Global Melanoma and Skin Cancer



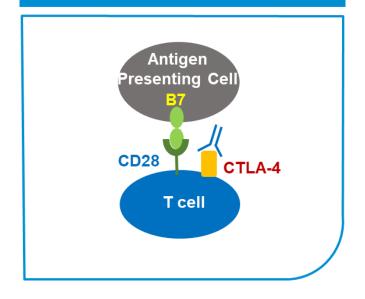


HBM4003-A Next Generation Anti-CTLA-4 Fully Human Heavy-Chain-Only Antibody with Enhanced ADCC for Treg Depletion

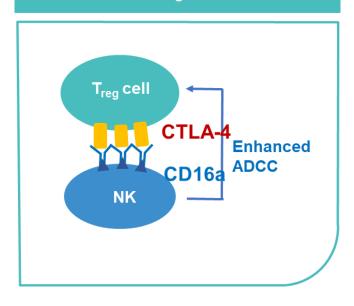
Platform



MoA 1- Checkpoint Inhibit



MoA 2-T_{req} Depletion

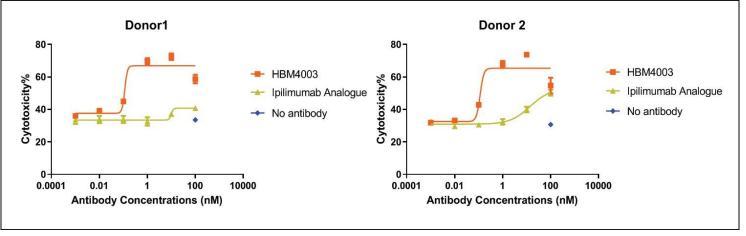


- The HCAb molecules have only 2 heavy chains linked by disulfide bonds. Each heavy chain consists of 1 heavy chain variable region and 2 heavy chain constant regions (CH2 and CH3) without the CH1 region
- The potential features of HCAb include unique binding epitopes, high affinity, and high tissue/tumor penetration
- HBM4003 demonstrated near dose-proportional pharmacokinetics (PK), extended pharmacodynamic (PD) effect, and low immunogenicity

HBM4003 Preclinical Data: Superior Treg Depletion Activity (100x More Potent Than Ipilimumab Analogue)

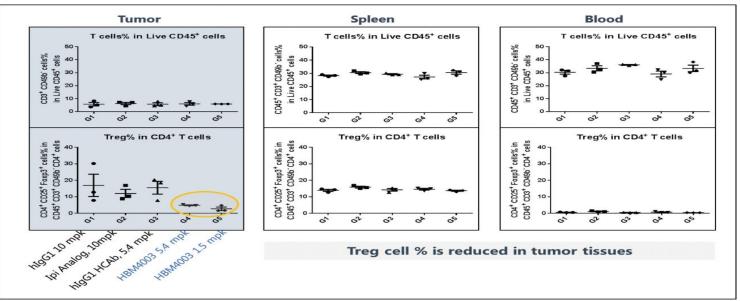
Superior Treg depletion activity in comparison to ipilimumab analogue as measured in vitro via ADCC killing assay

Treg Depletion by HBM4003 in Primary Human PBMCs in in vitro ADCC Assay

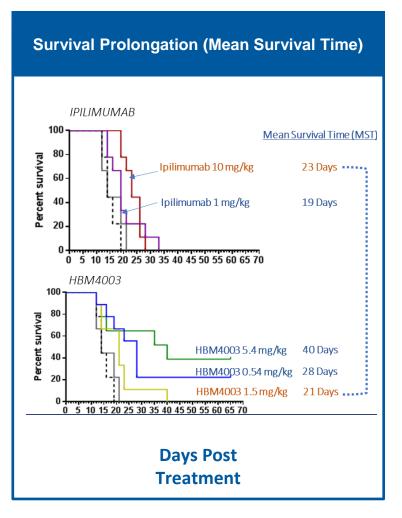


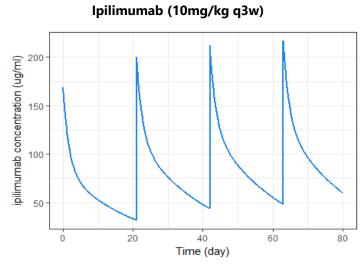
Led to Substantial Depletion of TIL Tregs in MC38 Bearing hCTLA-4 KI Mice

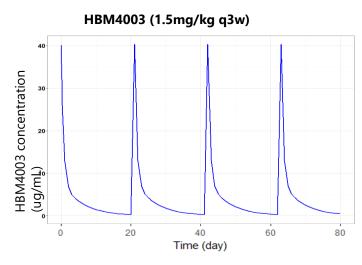
In Vivo T_{reg} (%) in Tumor, Spleen, and Blood in MC38-Bearing hCTLA-4 KI Mice (3 mice per group)
Samples were collected 24hrs post 2nd dosing and analyzed by FACS



HBM4003 Preclinical Data: Comparable Mean Survival Time At 1/6 Of Dose Compared to Ipilimumab, and Predicted Human Exposure Is Much Lower (~1/35 of AUC)

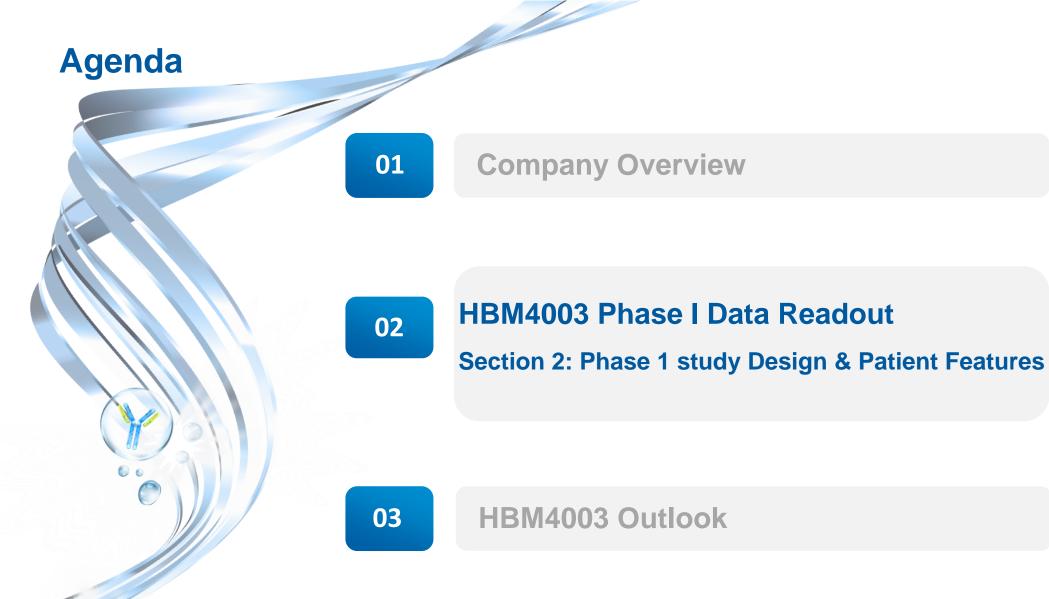






Simulated PK exposure at steady state AUC_(0-tau) Cmax Cmin μg/ml μg*day/ml 1942.7 744.9 576.3

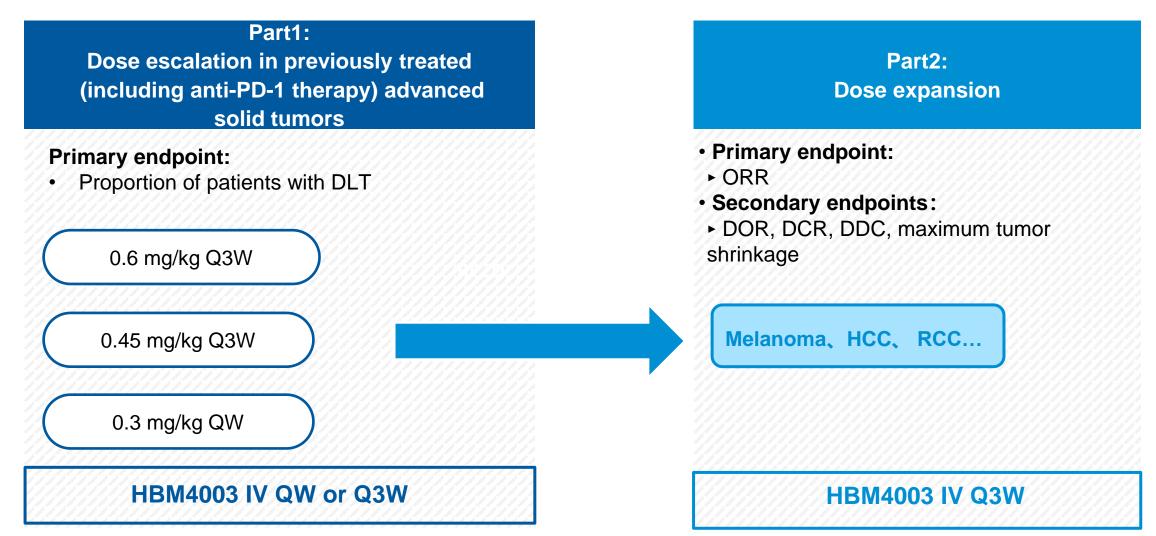
AUC _(0-tau)	Cmax	Cmin
μg*day/ml	µg/ml	µg/ml
54.27	40.26	2.50





HBM4003 Mono Therapy: Study4003.1 Overall Design Outline

Includes Two Parts and the Abstract of Part 1 Has Been Submitted to ESMO 2021



Data cutoff 12 April 2021

BIOMED 12

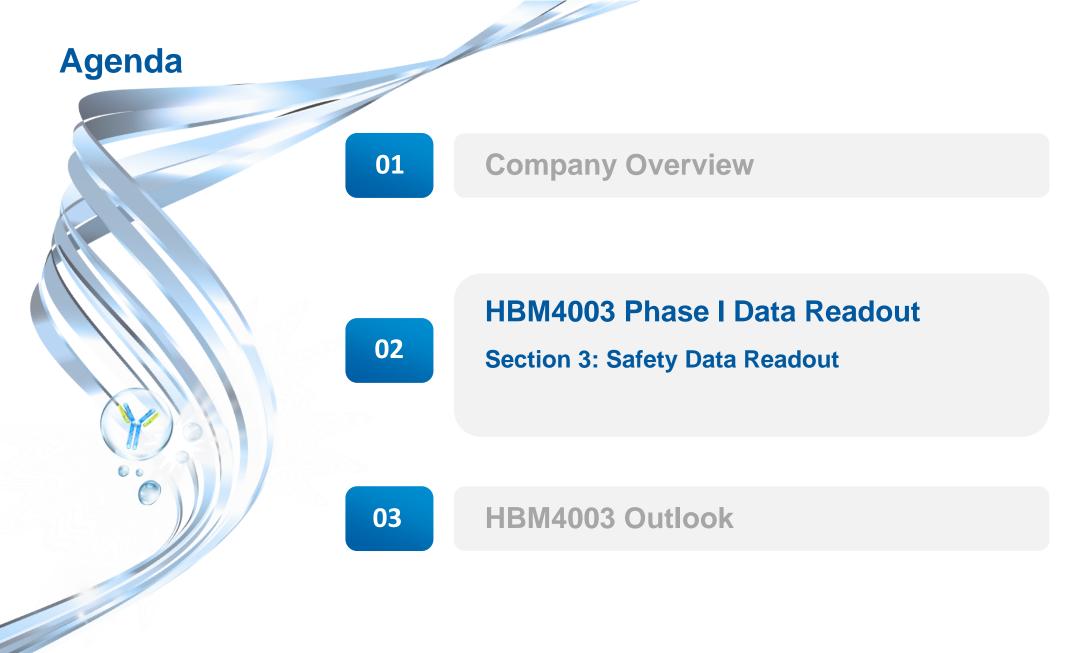
ClinicalTrials.gov identifier: NCT04135261

Key Patient Features and Demographics

- 20 patients with advanced solid tumors, at 4 Australian sites
- Heavily pre-treated population
 - 13 out of 20 patients (65%) having received 2 or more prior regimens
 - 8 out of 20 patients (40%) were treated previously with immune checkpoint inhibitor
 - The average age of subjects is 62.5 (SD= 11.5)

	0.3mg/kg QW (N=7)	0.45mg/kg Q3W (N=7)	0.6mg/kg Q3W (N=6)	Total (N=20)
Age, mean (SD)	67.6 (8.3)	62.3 (10.2)	56.8 (15.0)	62.5 (11.5)
ECOG PS, n(%)				
0	3 (42.9)	3 (42.9)	3 (50.0)	9 (45.0)
1	4 (57.1)	4 (57.1)	3 (50.0)	11 (55.0)
N of Previous Treatme	ent Lines, n(%)			
0	2(28.6)	0	0	2 (10.0)
1	2(28.6)	2(28.6)	1(16.7)	5 (25.0)
2 or more	3(42.8)	5(71.4)	5(83.3)	13 (65.0)
Previous PD-1/PD- L1 Therapies, n(%)	2 (28.6)	3 (42.9)	3 (50.0)	8 (40.0)

Tumor Type	Safety Assessment (n)	Post-Treatment Data for Anti-tumor Assessment (n)
Endometrial Carcinoma	1	1
PRCC	1	1
ccRCC	4	3
Prostate Cancer	2	2
HCC	1	1
Penile Cancer	1	
Testicular cancer	1	
Esophagus Cancer	2	1
Colorectal Cancer	1	1
Breast Cancer	2	2
Bladder Cancer	1	1
HNSCC	1	1
NSCLC	1	
Mesothelial Cancer	1	1
TOTAL	20	15 HAR





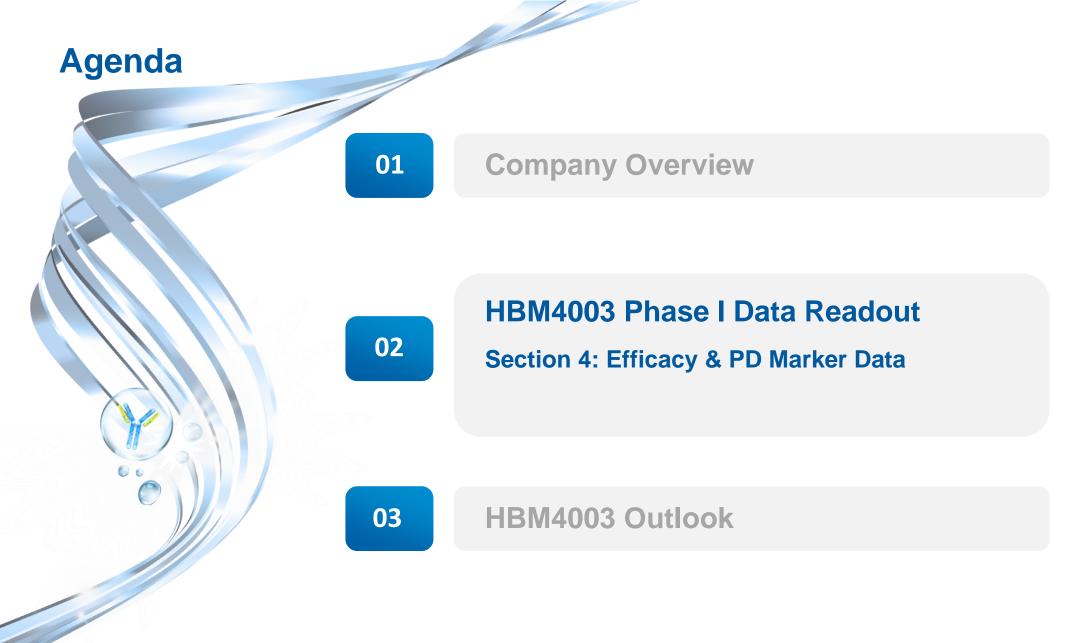
HBM 4003 Were Well Tolerated

- No toxicity was reported related to lung, kidney, heart or endocrine system
- No treatment-related serious adverse event (TRSAE) was reported at 0.45 mg/kg Q3W
- No TRAE was > Grade 3
 - Grade 3 TRAEs included diarrhea, and 1 case of abnormal liver function test who has HCC. All were manageable and reversible
- The most common TRAE of any grade was diarrhea/enterocolitis
 - The most common irAEs were diarrhea/enterocolitis and skin rash
- Maximum tolerated dose (MTD) was not achieved
 - No DLT was observed in any Q3W dose level
 - 1 DLT was reported at 0.3mg/kg QW due to Grade 3 diarrhea which was well managed with the SOC
- 0.45 mg/kg Q3W was recommended as the phase II dose (RP2D) for dose expansion

Differentiated Safety Profile Were Indicated From Preliminary Data

- More severe baseline conditions more prior treatments(including PD-1), higher ECOG, broad range of solid tumors mixed with cold tumors vs > 1 line melanoma
- irAE & G3 TRAE focused on diarrhea vs broad involvement with vital organs

	HBM4003 0.45mg/kg Q3W, n(%)	Ipilimumab 3mg/kg Q3W, n(%)	lpilimumab 3mg/kg Q3W, n(%)
Total No. patients	7	111(pooled)	137/131(AE)
Tumor types	Solid tumors	melanoma	melanoma
Prior treatment lines	≥2: 5(71.4) Prior PD-(L)1 Therapy: 3(42.9)	Prior systemic anti-cancer therapy(>1):100(90.1) Prior IO Therapy: 61(55.0)	Prior systemic anti-cancer therapy(>1):137(100)
ECOG	0: 3(42.9) 1: 4(57.1)	_	0: 72(52.6) 1: 64(46.7) 2: 1(0.7)
TRAE	4 (57.1)	88(79.3)	105(80.2)
irAE	Total: 2 (28.6) Enterocolitis 1(14.3) Hepatic 1(14.3)	Total: 68(61.3)	Total: 80(61.1) Dermatologic 57(43.5) Diarrhea 36(27.5) Colitis 10(7.6) Endocrine 10(7.6) Hepatic 5(3.8) Other 6(4.6)
G ≥3 irAE	Total: 1(14.3) Hepatic 1(14.3)	G≥3 TRAE 16(14.4) Diarrhea 3(2.7) Colitis 3(2.7)	Total: 19(14.5) Diarrhea 6(4.6) Colitis 7 (5.3) Dermatologic 2(1.5) Endocrine 5(3.8) Other 3(2.3)





Preliminary Efficacy Data Are Encouraging For HBM 4003 In This Monotherapy Dose Escalation Study

2 clinical responders

- 1 patient with HCC who was pre-treated with Sorafenib, Lenvatinib and anti-PD-1 had confirmed partial response (PR)
- 1 patient with CRPC had PSA response for > 26 weeks with SD in RECIST assessment

9 patients had stable disease (SD 60%)

- 15 patients had at least 1 post-treatment tumor assessment
- tumor shrinkage were reported with 3 patients

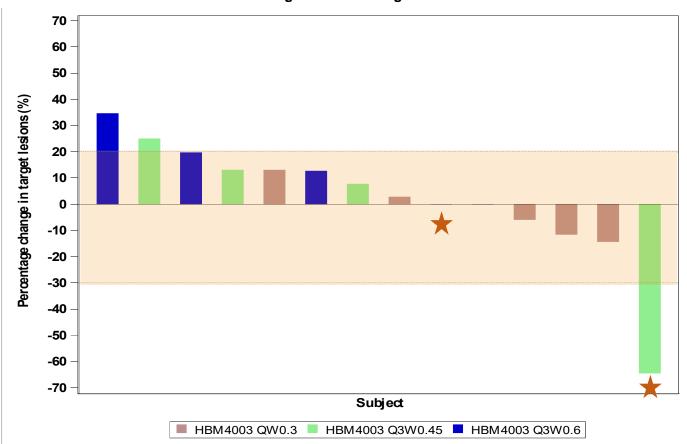
- Efficacy is assessed according to Response Evaluation Criteria in Solid Tumors (RECIST) v1.1.
- An independent imaging reading group was hired to review CT scan and RECIST assessment for responders



Encouraging Preliminary Efficacy Have Been Observed with HBM 4003 Monotherapy

- FIH with Dose Escalation, Heavily Pre-treated(including PD-1), Broad Range of Solid Tumors

Maximum Percent Change in Sum of Target Lesion Diameters from Baseline



	0.3mg/kg QW (N=7)	0.45mg/kg Q3W (N=7)	0.6mg/kg Q3W (N=6)
Best Ove	rall Response	, n (%)	
CR	0 (0.0)	0 (0.0)	0 (0.0)
PR	0 (0.0)	1 (14.3)	0 (0.0)
SD	5 (71.4)	0 (0.0)	4 (66.7)
PD	1 (14.3)	3 (42.9)	1 (16.7)

Abbreviations: CR: complete response; PR: partial response; SD: stable disease; PD: progressive disease

Tumor types (from left to right): breast cancer; colorectal cancer; clear cell renal cell carcinoma; esophagus cancer; breast cancer; clear cell renal cell carcinoma; mesothelial cancer; prostate cancer; bladder cancer; papillary renal cell carcinoma; head and neck squamous cell carcinoma; endometrial carcinoma; hepatocellular carcinoma

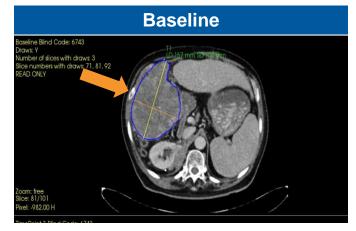


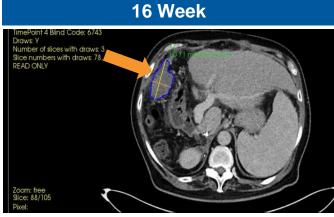
HCC Patient: Confirmed PR in Target Lesion

- Patient background
 - 64-year-old man, Asian, HBV infected
 - Prior treatments: sorafenib, lenvatinib and anti-PD-1
 - HBM 4003, 0.45 mg/kg Q3W
- Strong & durable efficacy observed
 - Tumor reduction reached 64.4% for target lesions and non-target lesions were no longer detectable 16 weeks after the last dose

Target Lesion

	Location	Baseline	6 W	12 W	16 W	24 W
Non target Lesions	Lung , LN, Left Liver	NA	P	Non PD/Non (CR	Not detectable
Target lesions	Right Superior Liver, Right Kidney	225	175	115	105	80
(mm)	Change from baseline	N/A	22.2%	48.9%	53.3%	64.4% PR
А	FP u/L	170	5	5	9	7
Overa	III response	NA	SD	PR	PR	PR





HCC: hepatocellular carcinoma; PR: partial response

Note: The target lesion was measured at the longest diameter



CRPC Patient: SD by RECIST 1.1 with PSA Response

Patient profile

- 80-year-old man, HBM 4003 0.6 mg/kg Q3W
- Prior treatments: docetaxel, cabazitaxel and bicalutamide

PSA response

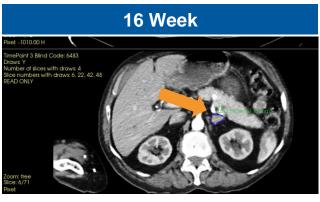
- more than 50% reduction in PSA level from baseline at 6 week
- Extended clinical benefits
 - The PSA response still remained at week 45 from first dose, 26 weeks after the last dose
 - The SD of adrenal and axillary lymph node by RECIST 1.1 continued until week 45



Target Lesion

	May 2020	Jun 2020	July 2020	Apr 2021	Assessment
	Baseline	6 W	12 W	45 W	
PSA (ng/ml)	240	92	89	58	PSA response
Sum of Diameter (mm)	70	71	63	ND	SD
% Change Baseline	NA	1	-10	NA	NA

Baseline		
Baseline Blind Code: 6483 Draws Y Number of slices with draws: 3 Slice numbers with draws: 11, 37, 43 READ ONLY		
Zoom: free Slice: 11/72 Pixel: -1010.00 H		

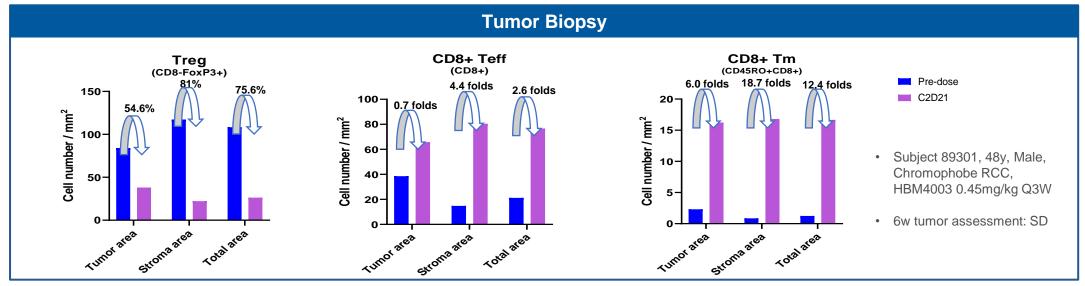


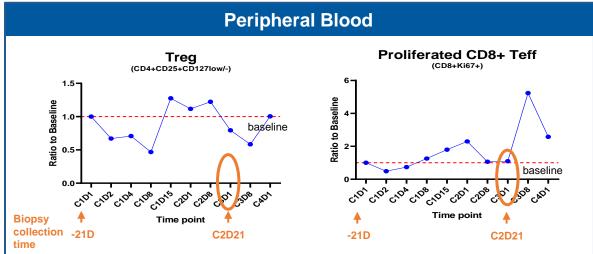
CRPC: castration-resistant prostate cancer; SD: stable disease; PI: principal investigator;

PSA: prostate-specific antigen

PD Marker: Selective Intratumor Treg Depletion Validated by Paired Biopsy Data

- HBM4003 Selectively Depleted Intratumor Treg and Increased CD8+Teff and CD8+Tm Cells





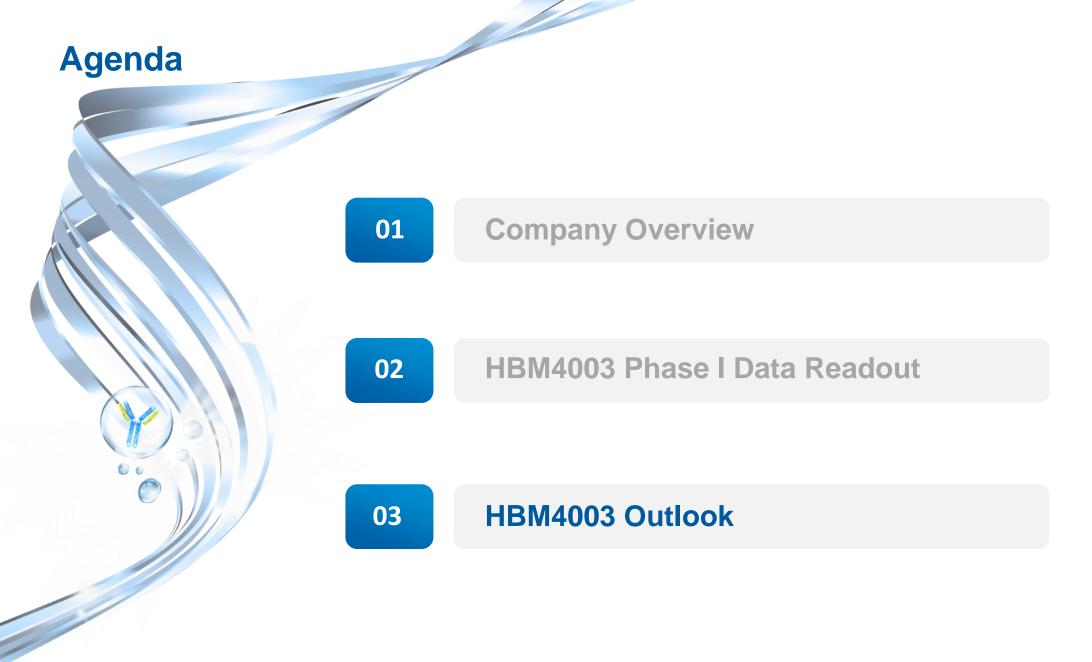
Consistent with preclinical data

- Treg depletion is selective and sustained in tumor microenvironment comparing to peripheral blood
- Increase of CD8+ Teff cells is observed in tumor microenvironment and peripheral blood

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Conclusion--The Preliminary Data from This Phase 1 Trial Demonstrate Encouraging Activity across a Range of Tumors with Improved Tolerability for HBM 4003 Vs Ipilimumab

- HBM4003 is the next generation anti-CTLA-4 fully human HCAb with enhanced ADCC for Treg depletion and the first HCAb under clinical development
- The novel MOA of strong Treg depletion has been validated by both pre-clinical and clinical biopsy data
- HBM 4003 is well tolerated
 - The most common TRAE of any grade was diarrhea/enterocolitis
 - No toxicity was reported related to lung, kidney, heart or endocrine system
 - No TRAE was > Grade 3
 - Maximum tolerated dose (MTD) was not achieved
- Preliminary efficacy data is encouraging for HBM 4003 monotherapy
 - 9(out of 15) patients achieved SD
 - 1 patient pre-treated by all SOCs (including PD-1) was confirmed as PR, 1 patient had PSA response with SD by RECIST
- 0.45 mg/kg Q3W was recommended as the phase II dose (RP2D) for dose expansion





NET/NEC, RCC, NSCLC (HNSCC, ESCC, TNBC...)

Global Development Kicked Off for HBM4003 Aiming to Unlock Potential of **Broad Tumor Setting With Multiple Exciting Catalysts In 2022**

Study Regimen		Clinical Development Programs
HBM4003 mono	Ph I, HBM4003 mono	 Exciting catalysts expected in a year- ✓ POC data for Mono for melanoma, HCC, RCC ✓ POC data for PD-1 combination for melanoma, HCC,RCC, NEN, NSCLC ✓ Initiation of POC study for VEGFR combination
HBM4003 + PD-1		l studies in 1L melanoma (China), RCC (China), 2L HCC, 2L NEN
	Pembrolizumab	rotal study in 1L NSCLC (PD-L1 <1%) Pivotal study in 1L NSCLC regardless of PD-L1 expression
HBM4003 + bevacizumab	Ph Ib/II, HBM4003 + bevacizumab HBM4003 + PD-(L)1 + bevacizumab	Pivotal studies in <u>2L non-sq NSCLC</u> , <u>HCC</u> , melanoma, HNSCC, ESCC, GC, TNBC, NPC, etc.
 Global, simultaneous development on POC 5 trials ongoing including 3 basket trials Mono & combo treatment Various solid tumors – melanoma, HCC, 		Ph III, HBM4003 + PD-(L)1 + bevacizumab in 1L HCC





HBM 4003's Development Receives Continuous Strong Support from Global Investigators & Advisor Board Members



Shivaani Kummar

Director, Phase 1 Clinical Research Program, Division of Oncology Stanford School of Medicine

Professor of Medicine & Radiology at Stanford University Medical Centre

Specialty Sarcoma



John M Kirkwood

Distinguished Service Professor Medicine, University of Pittsburg Usher Professor of Medicine, Dermatology, Clinical and Translational Science at The University of Pittsburg School of Medicine

Specialty Global Melanoma and Skin Cancer



Paul de Souza

Professor, St George Private Hospital, Kogarah, NSW, Australia



Ren Zhenggang

Director of Department of Hepatic Medical Oncology, Zhongshan Hospital, Fudan University.



Shukui Qin

Deputy Dean of General Hospital os Eastern Theater Command; Secretary-general of Chinese Society of Clinical Oncology (CSCO)



Hao Jihui

Deputy Dean of Tianjin Medical University Cancer Institute & Hospital



Jin Li

Vice President of Federation Asian Alliance Clinical Oncology (FACO), Board Chairman of Chinese Society of Clinical Oncology (CSCO)



Ye Dingwei

Deputy Dean of Fudan University Shanghai Cancer Center, Director of Department of Urology Surgery.



Shen Lin

Deputy Dean of Peking University Cancer Hospital, Director of Department of Gastrointestinal Oncology

HBM4003 Represents Significant Clinical Needs with Potential to be Backbone of Next Gen IO Therapy

CTLA4 a clinically validated I/O target

Novel design, heavy chain Ab and Treg depletion

Significant improvement of efficacy and safety profile to achieve therapy breakthrough with Monotherapy

Enhanced combination therapy with broad applications and extended benefits

- Significant Improvement of Clinical Outcomes
- Unlock Potential of Immuno-Oncology Therapy



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