



INTERIM RESULTS 2023

28 August 2023

HBM HOLDINGS-B, 02142.HK

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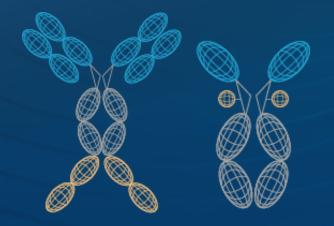
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AGENDA



01 1H 2023: Strategic Growth

02 Harbour Therapeutics: Strong Execution on Pipeline

03 Nona Biosciences: Technology Drives Therapeutic Innovation

04 Business & Financial Review

05 Outlook



1H 2023: Strategic Growth

Dr. Jingsong Wang

Founder, Chairman of the Board and Chief Executive Officer





Strong Growth Through Innovation & Strategic Focus

Portfolio Advancement

- Focus on driving key clinical programs to major value inflection points
- Differentiated innovations fully leverage core technology platforms
- Continue to improve operation efficiency

- Platform Upgrade
- Harbour Mice[®]: Innovation for upgraded efficiency
- ➤ HCAb PLUSTM : Versatile to new modalities
- Expanded applications in challenging field: ICE, ADC and GPCR...



- Global partnership with MNCs
- Co-development with leading biotechs
- Regional collaboration to maximize program value
- Expansive BD effort in realizing the value of the technology platform

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Business Highlights on Harbour Therapeutics

Multiple Major Milestone Achievements in Advancing Global Product Portfolio



Batoclimab (HBM9161) BLA submission



Progress in clinical stage assets

2 new clinical data readouts from Porustobart (HBM4003)

- 2 clinical program advancement milestones
 - HBM9378 completed subjects dosing of Phase I trial
 - HBM1020 initiated Phase I trial in the U.S.
- 4 new IND approval
 - HBM1020, HBM1007, HBM1022 & HBM9033



Progress on collaboration assets

1 clinical asset regionally out-licensed to accelerate the global development

4 new INDs from partners

- AstraZeneca: HBM7022/AZD5863 in CN&US
- Hualan Genetics: HBM7020, HBM7015
- NK Celltech: NK-010

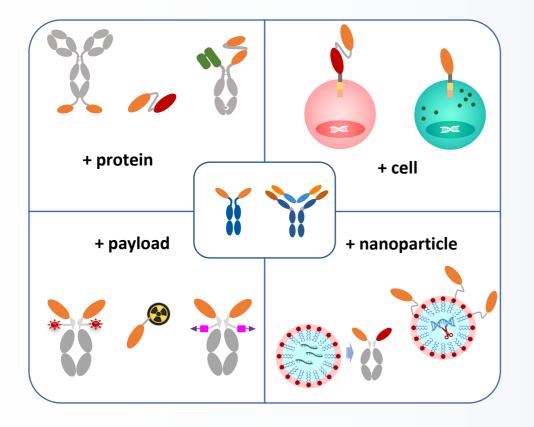




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Transformational Engine for New Growth Via Nona



Broaden the Business Models Through Global Collaborations



Business development

- >30 on going collaboration projects
- Global key accounts

Technology services

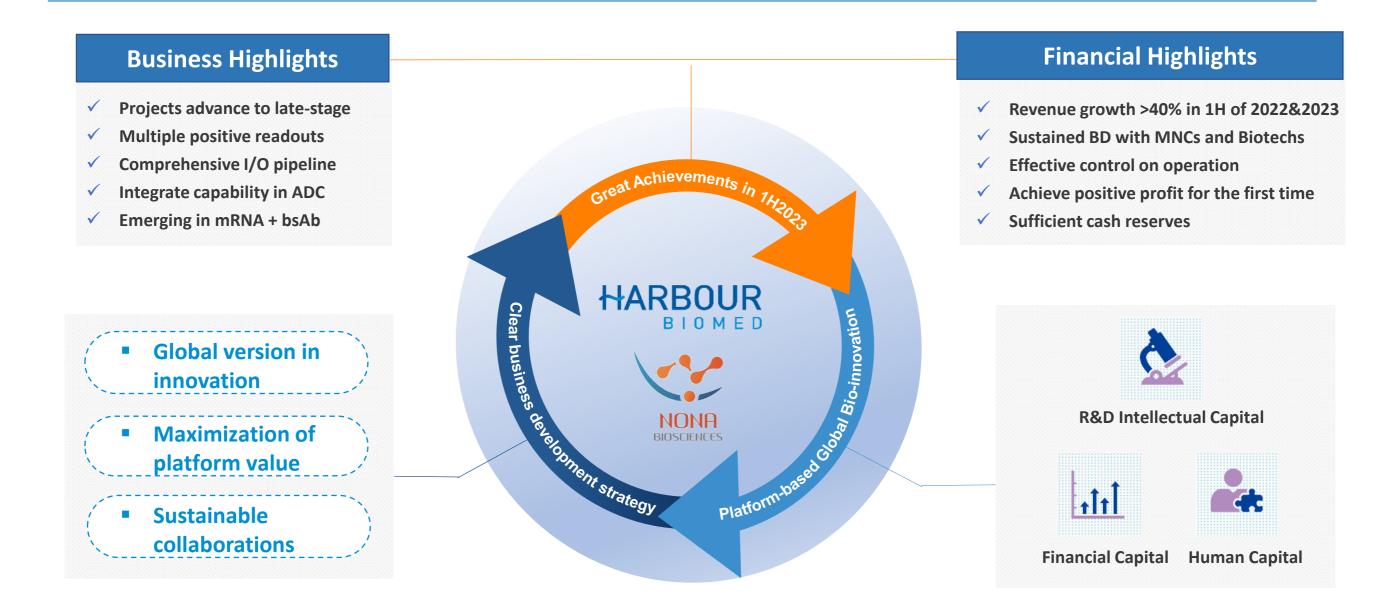
- 20⁺ projects kick-off
- **ADC** discovery service officially launched
- Well-established discovery management system

Contributions to Increasing Revenue

• Near USD 10M external revenue



Sustainable Business Models to Drive Sustainable Value Creation







Harbour Therapeutics: Strong Execution on Pipeline

Dr. Xiaolu Tao

Chief Development Officer



Highly Innovative and Differentiated Global Pipeline

Project	Target	Indication	Commercial	Status							
Hojeet	laiget	mulcation	Rights	Discovery	Pre-Clinical	IND	Phase I	Phase II	Phase III	BLA	
Batoclimab HBM9161	FcRn	Myasthenia Gravis	Greater China Rights Out-licensed ¹							BLA submission	CSPC
		Solid Tumors ^a							Monothera		
Porustobart HBM4003	CTLA-4 ²	Solid Tumors ^b	Global						Combo with	PD-1 Ph 1b/2	
		Solid Tumors ^c								D-1+Chemo Ph 1	
HBM7008	B7H4×4-1BB	Solid Tumors	Ex-U.S. ³					Ph 1 CUL	Linan ^{COLOGY}		
HBM9378	TSLP	Asthma	Global					Ph 1	RELAN		
HBM1020	B7H7/HHLA2	Solid Tumors	Global					Ph 1			
HBM7022	CLDN18.2xCD3	Solid Tumors	Global Out-license					Ph 1/2 As	straZeneca		
HBM1007	CD73	Solid Tumors	Global				US IND	clearance in	January 2023		
HBM1022	CCR8	Solid Tumors	Global				US IND	clearance in	February 2023	3	
HBM9033	MSLN ADC	Solid Tumors	Global				US IND	clearance in	August 2023		
HBM9027	PD-L1xCD40	Solid Tumors	Global								
HBM7004	B7H4×CD3	Solid Tumors	Global								
HBM1047	CD200R1	Solid Tumors	Global								
HBM9014	LIFR	Solid Tumors	Global			Yinuc	oke				

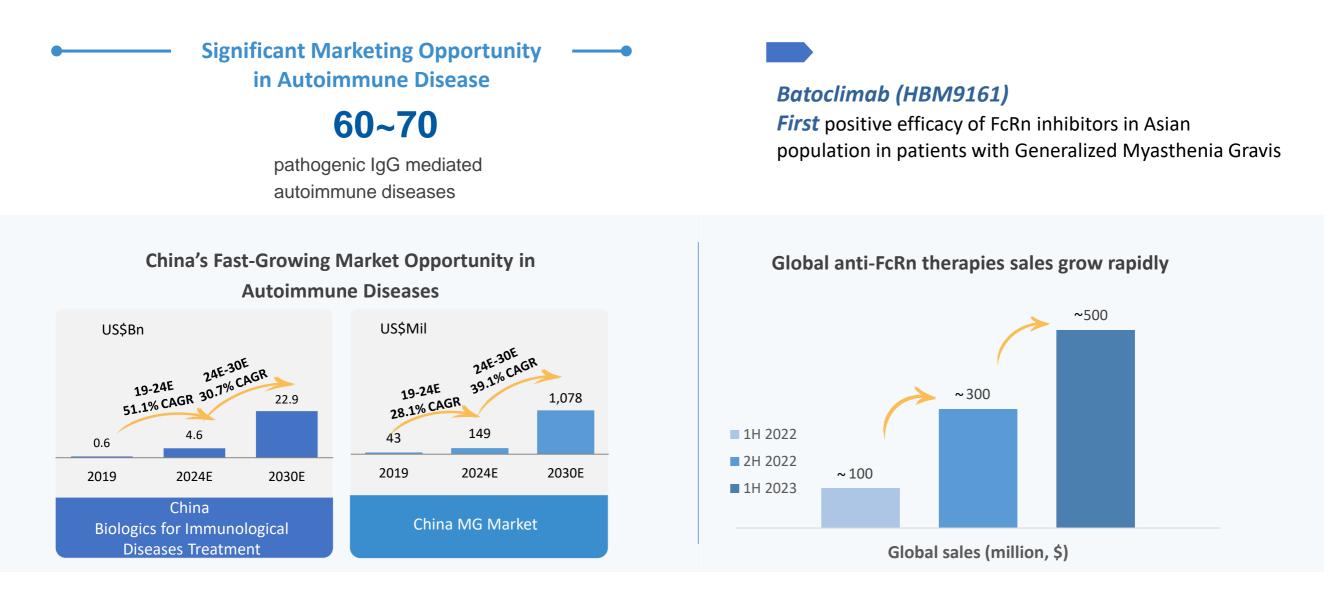


- 1. HBM in-license the Greater China Rights of HBM9161 from HanAll in 2017, and the rights is out-license to CSPC in Oct 2022
- HBM4003 is a next-gen anti-CTLA-4 antibody with enhanced ADCC for Treg depletion
 The U.S. rights of HBM7008 is out-licensed to Cullinan in Feb 2023
- * MG: Myasthenia Gravis; TED: Thyroid Eye Disease;

- a. Melanoma, HCC, RCC and Other Advanced Solid Tumors
- b. Melanoma, HCC, NEC/NET and Other Advanced Solid Tumors
- c. NSCLC and Other Advanced Solid Tumors

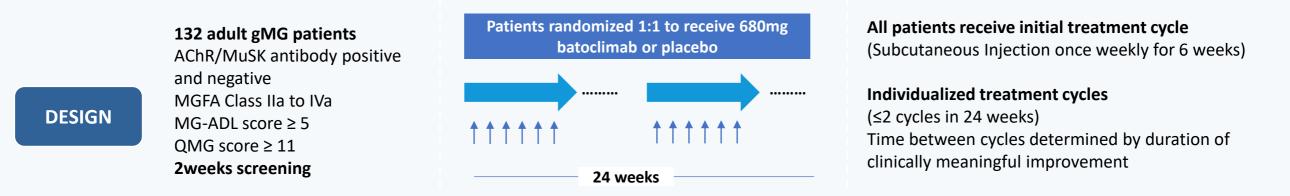
Batoclimab (HBM9161)

Breakthrough Therapeutics for IgG Mediated Autoimmune Diseases





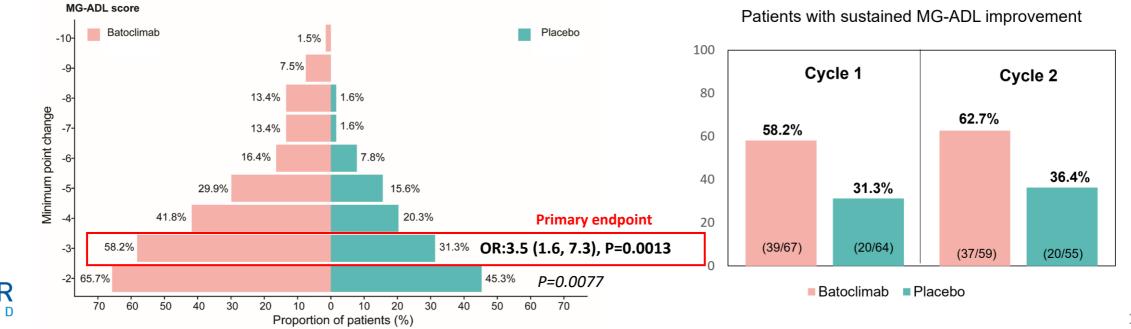
Batoclimab (HBM9161) Provide Promising Value to Myasthenia Gravis Patients





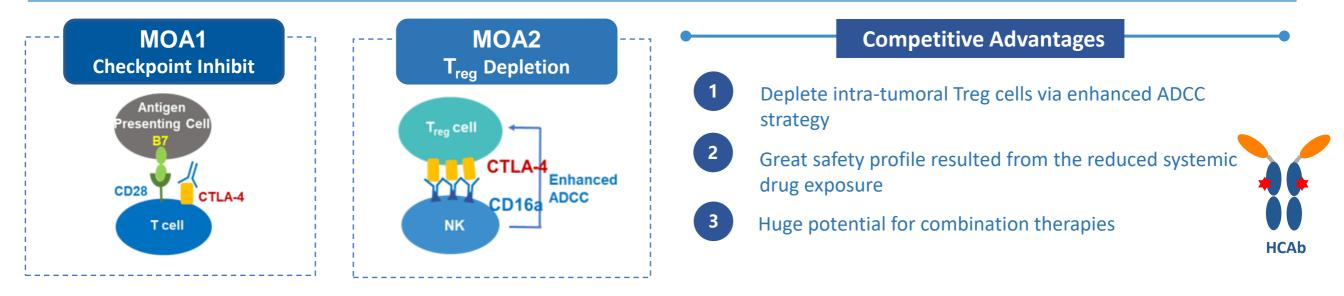
Trial data showed batoclimab was safe and well tolerated, with statistically significant and clinically meaningful benefit :

- Demonstrated deep MG-ADL response in both treatment cycles
- Sustained efficacy with batoclimab was found in the second treatment cycle



Porustobart (HBM4003)

Next-Gen Anti-CTLA-4 Antibody with Potential to be the Mainstream of IO Therapeutics



Brianna M Lax., et al., Both intratumoral regulatory T cell depletion and CTLA-4 antagonism are required for maximum efficacy of anti-CTLA-4 antibodies. PNAS. 2023 Aug;120(31)

A total of **187** patients had been treated with Porustobart in clinical studies

Favorable Safety Profile



Promising Efficacy

- Objective responses in HCC, CRPC, melanoma and NEN treated with Porustobart monotherapy or combination therapy.
- Porustobart plus anti-PD-1 antibody showed improved response rate in mucosal and acral melanoma, HCC and NEN compared with currently available anti-CTLA-4 antibodies.

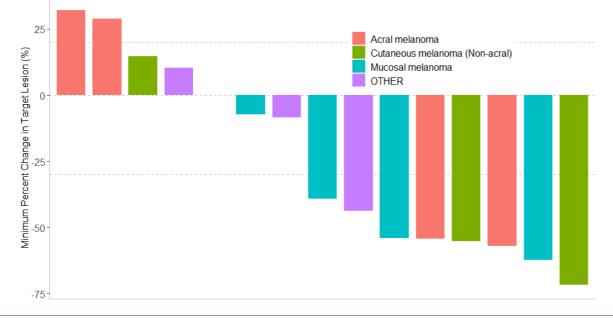


Porustobart (HBM4003) Robust Clinical Benefit in Melanoma Patients

Robust efficacy observed for HBM4003 + Toripalimab in PD-1 naïve melanoma cohort

Best Overall Response by RECIST 1.1, N (%)

Pts with tumor assessments	15 (100%)
ORR (CR + PR)	5 (33.3%)
DCR (CR + PR +SD)	11 (73.3%)
Tumor reduction	9 (60.0%)



Robust efficacy observed for HBM4003 + Toripalimab in PD-1 naïve mucosal melanoma subgroup

Best Overall Response by RECIST 1.1, n (%)				
Pts with tumor assessments	5 (100%)			
ORR (CR + PR)	2 (40.0%)			
DCR (CR + PR +SD)	4 (80.0%)			
DOR	9m+, 12m+			
Tumor reduction	4 (80.0%)			

ORR in 2L PD-1 Naïve Chinese Mucosal Melanoma Patients

Treatment	Observed ORR
Pembrolizumab (KEYNOTE-151)	13.3%
Toripalimab (NCT03430297)	0%
Pucotenlimab (NCT04749485)	8.7%
Toripalimab + Axitinib	17.5%

Mucosal melanoma represents significant unmet medical needs in Asian population

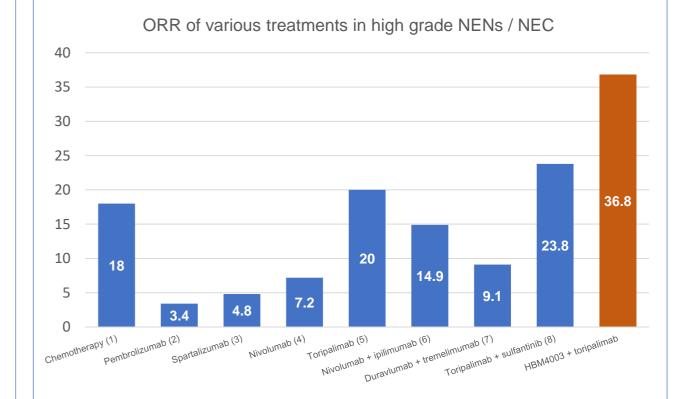
□ No 2nd Line treatment nor effective 1st Line treatment options

Porustobart (HBM4003)

Great Opportunities in High-grade Neuroendocrine Neoplasm (NEN)/NEC

HBM4003 + Toripalimab elicited significant efficacy improvement in in high-grade NENs patients Best Overall Response by RECIST 1.1, N (%) Pts with tumor assessments 19 (100%) ORR (CR + PR) 7 (36.8%) DCR (CR + PR +SD) 11 (57.9%) **Tumor reduction** 12 (70.6%) 100 Minimum Percent Change in Target Lesion (%) High-Grade NEN NEC 50 -50 -100

 HBM4003 + Toripalimab elicited the highest response rate in highgrade NENs patients

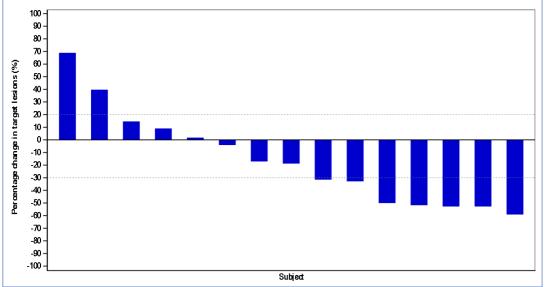


- Platinum-based chemotherapy was in the first line setting for advanced extrapulmonary poorly differentiated NEC
- No established standard treatment in second line setting.
- Single agent or combination chemotherapies were commonly used with a median ORR of 18% and median OS of 7.64 months
- 1. McNamara MG, et al. 2020.
- 2. Strosberg et al., 2019.
 - J.C. Yao. et al. 2019.
- GCO-001 NIPINEC study. ESMO 2021 Abstract LBA41.
- 5. Lu et al. 2020
- Strosberg et al., 2019.
 ESMO Abstract 11570, 2020.
 - Shen et al. AACR Abstract 2020.

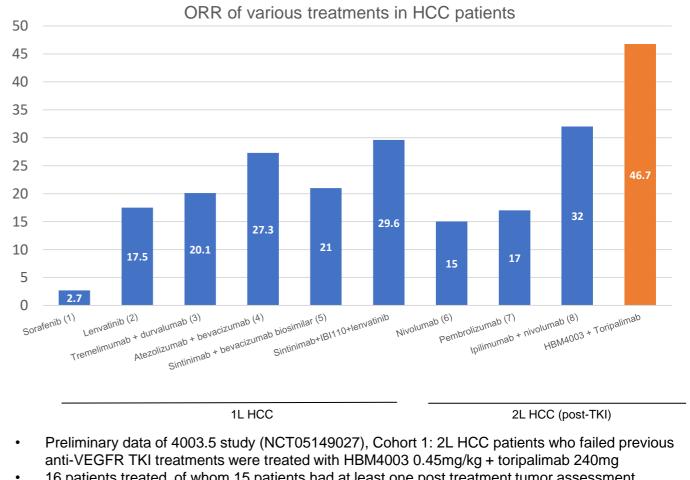
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Porustobart (HBM4003) Clinical Benefit in Advanced HCC Patients

Robust efficacy observed for HBM4003 + Toripalimab in post-TKIs HCC patients				
Best Overall Response, n(%) RECIST 1.1 mRECIST				
Pts with tumor assessments	15 (100%)	15 (100%)		
CR	0 (0%)	0 (0%)		
PR	7 (46.7%)	7 (46.7%)		
ORR (CR + PR)	7 (46.7%)	7 (46.7%)		
SD	4 (26.7%)	3 (20.0%)		
DCR (CR + PR +SD)	11 (73.3%)	10 (66.7%)		
Tumor reduction	10 (66.7%)	10 (66.7%)		



HBM4003 + Toripalimab elicited high response rate in HCC patients



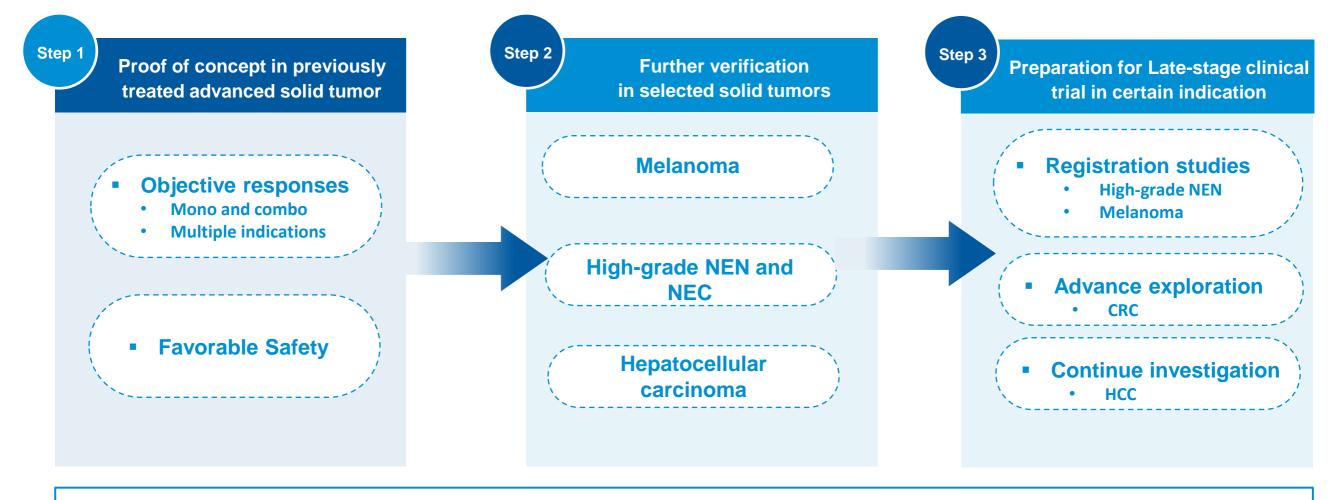
- 16 patients treated, of whom 15 patients had at least one post treatment tumor assessment
- Median follow up 3.4 months (range: 1~5 months) ٠



1. Qin et al. J Clin Oncol . 2021 Sep 20;39(27):3002-3011. 2. LEAP-002 study. Annals of. Oncology (2022) 33 (suppl_7): S808-S869. 3. HEMALAYA study. Abou-Alfa et al. NEJM Evid 2022; 1 (8).

5. ORIENT-32 study. Lancet Oncol . 2021 Jul;22(7):977-990. 6. CheckMate 459 study. Yao et al. Lancet Oncol . 2022 Jan;23(1):77-90. 7. Keynote 224 study. Lancet Oncol . 2018 Jul;19(7):940-952. 4. IMBrave 150 study. Finn et al. N Engl J Med 2020;382:1894-905. 8. CheckMate 040 study. JAMA Oncol. 2020 Oct 1;6(11):e204564.

Porustobart (HBM4003) Pivotal Trial Preparation



HBM4003 combination therapy with anti-PD-1



HBM1020 (B7H7/HHLA2) **An Alternative Immune Escape Mechanism Beyond PD-L1**

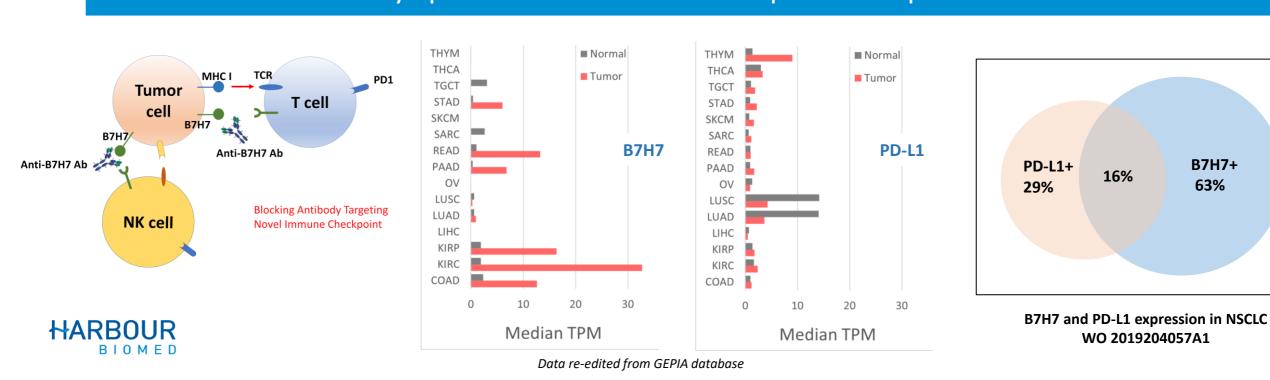
Highlights

- T cell and NK cell activation activity and excellent in vivo efficacy in humanized tumor models
- Widely Expressed in Various Solid Tumors & Reciprocal to the Expression of PD-L1
- □ Huge potential to treat PD-L1 negative or anti-PD1/PD-L1 refractory cancer patients
- □ HBM1020 is the first and only mAb entering clinical development worldwide
- Ph1 ongoing multiple patients dosed in collaboration with top-tier US cancer centers



B7H7+

63%



Widely Expressed in Various Solid Tumors & Reciprocal to the Expression of PD-L1

HBM9033 (MSLN) Next-Gen Mesothelin ADC for Solid Tumors

Highlights

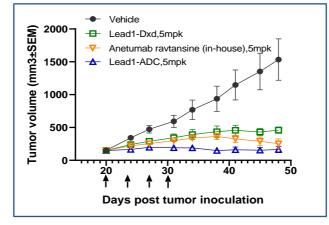
- Unique fully human antibody warhead with improved binding, internalization, blocking activity and less interference by sMSLN
- □ The 4th generation novel payload with tumor-specific cleavable linker and high serum stability
- Superior therapeutic window compared to other ADC technologies
- □ IND clearance in August 2023, Phase I trial expected in 2H 2023



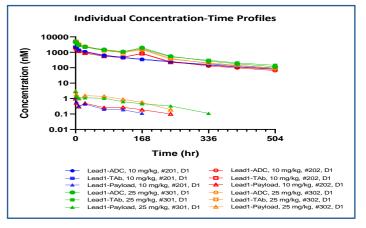
Robust anti-tumor activities and better PK/PD profile observed in preclinical studies

Linker Tri-peptide cleavable linker (unnatural a included)	
	а
Payload Topoisomerase inhibitor with higher pote than Dxd, DAR 8	псу

Better efficacy than DXd based ADC in mouse CDX model



Confirmed in-vivo stability of ADC shows minimal payload release in monkey





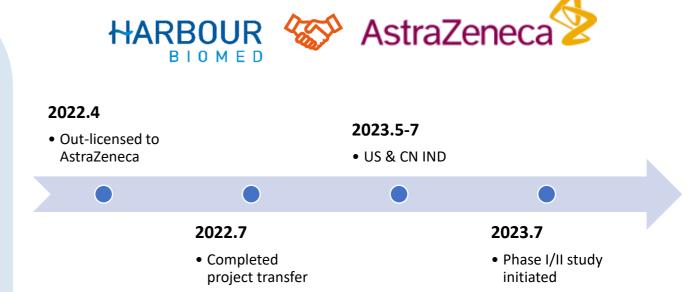
HBM7022/AZD5863 Novel 2+1 Format from HBICE[®] Platform Validated by MNC



HARBOUR

BIOMED

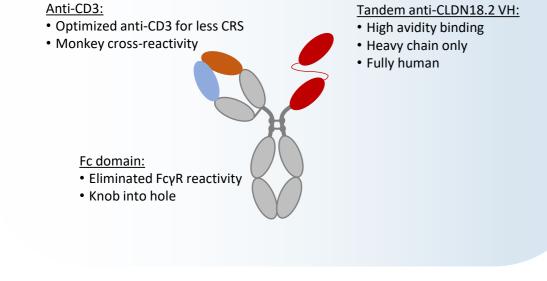
- 2+1 format with better activity and potential larger therapeutic window
- Low CD3 and high CLDN18.2 affinity reduce systemic exposure and increase distribution to tumor
- □ Silent Fc extends half-life, avoids Fc crosslinking and ADCC
- Global Phase I/II study initiated in 2023.7



Advanced to clinical stage in 12-months

NCT06005493

Location	17 sites in US, Mainland and Taiwan, Japan, Korea, Netherlands
Estimated Enrollment	200 participants
Intervention Model Description	 Individual modules of AZD5863 dosed as monotherapy: Module 1: AZD5863 intravenous administration Module 2: AZD5863 subcutaneous administration Modules 1 and 2 each consist of two parts: Part A, Dose Escalation and Part B, Dose Expansion.
Conditions	Gastric Cancer; Gastro-esophageal Junction Cancer; Pancreatic Ductal Adenocarcinoma; Esophageal Adenocarcinoma



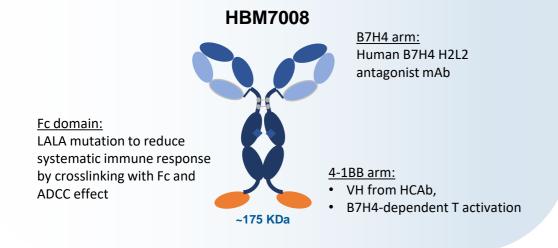


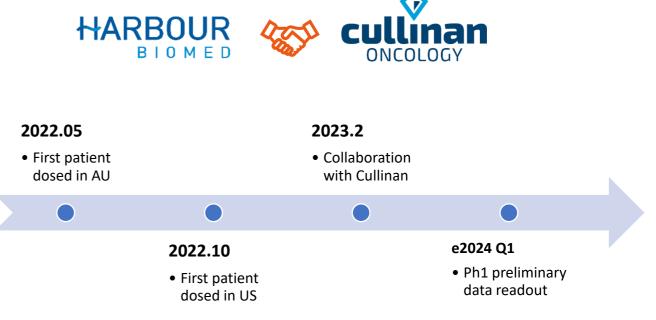
HBM7008 (B7H4x4-1BB)

First-in-Class Bispecific Antibody from HBICE® Platform



- Fully human **bispecific antibody** from the HBICE[®] platform
- Novel immune escape pathway First-in-class target (B7H4x4-1BB)
- Excellent safety profile, potential to avoid 4-1BB liver toxicity with the benefit of its innovative mechanisms and bispecific design





Collaboration accelerates global clinical development

NCT05306444	
Location	7 sites in US and Australia
Estimated Enrollment	108 participants
	Part A, Dose Escalation Part B, Dose Expansion
Conditions	Advanced solid tumors





Nona Biosciences: Technology Drives Therapeutic Innovation

Dr. Yun He

Chief Technology Officer

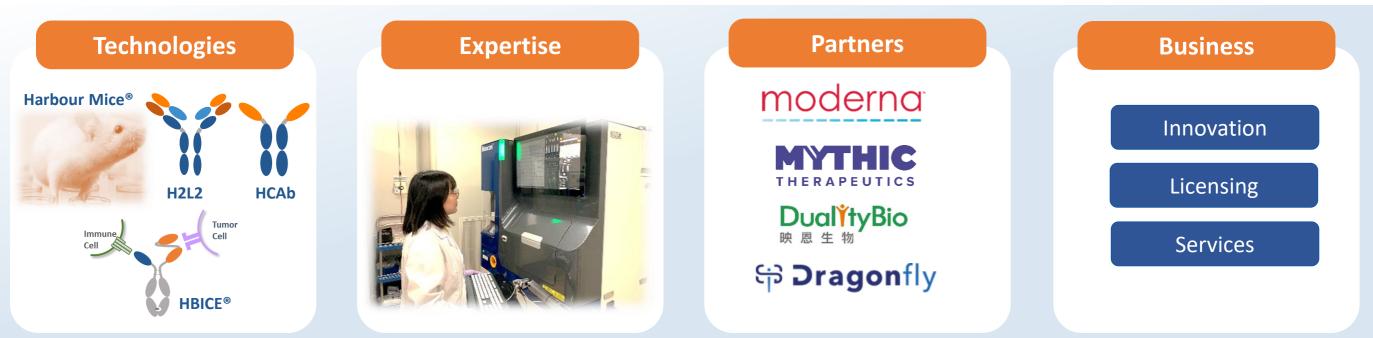


Nona Biosciences Empowers Global Therapeutic Innovation



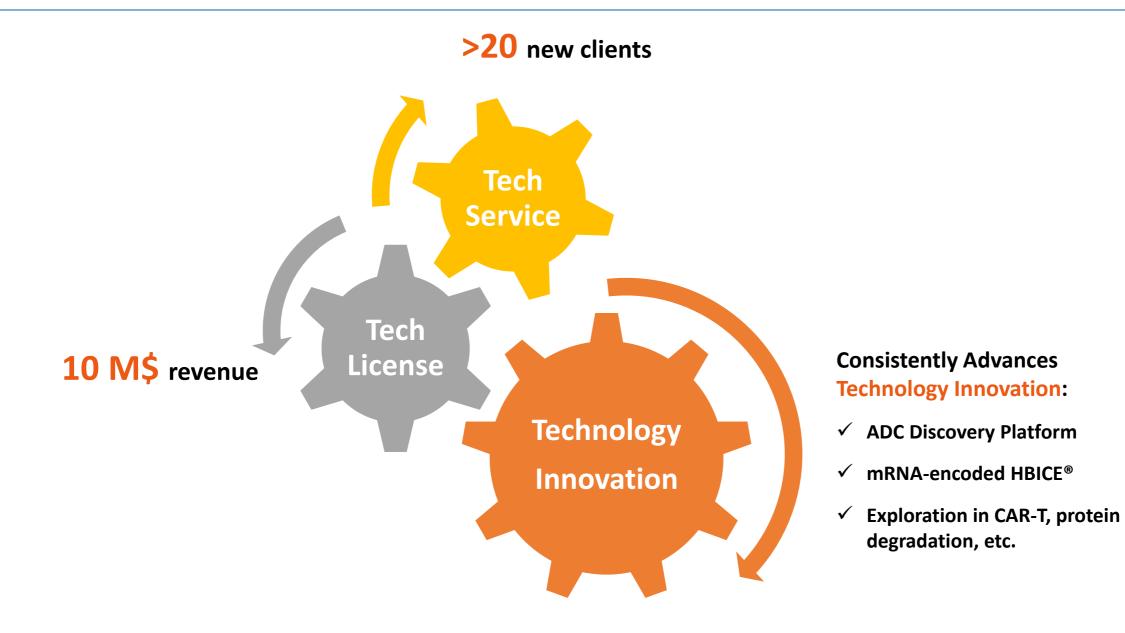
Mission

Leveraging industrial leading technology platforms, Nona Biosciences is committed to provide integrated discovery solution for biotech and pharmaceutical companies from Idea to IND (I to I).



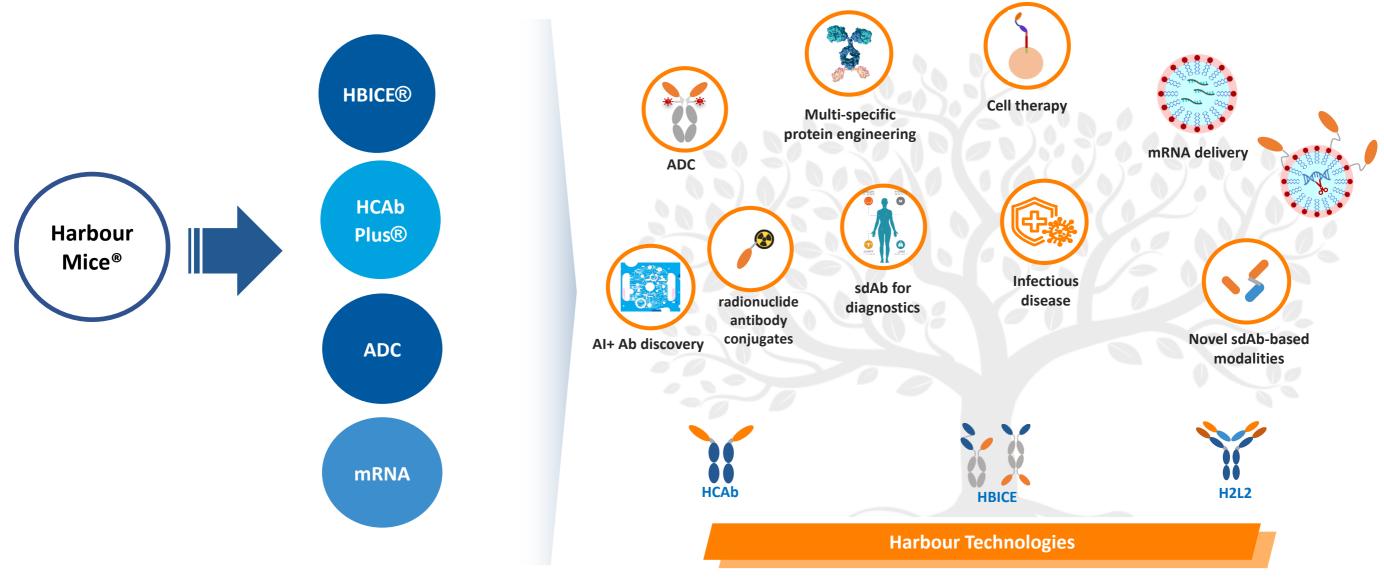


Three Pillars to Drive Business Achievement in 2023H1





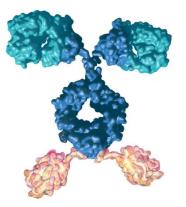
Expand Harbour Mice[®] Fully Human Antibody Platforms to Emerging Fields





Nona Biosciences Consistently Advances Technology Innovation





Combine human antibody platforms and **protein engineering** to generate multifunctional molecules

Conjugation Technology

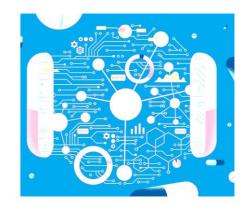


Novel conjugation technology for bringing new modalities against solid tumors Delivery Technology



mRNA technology to bring solutions for difficult targets or new therapy

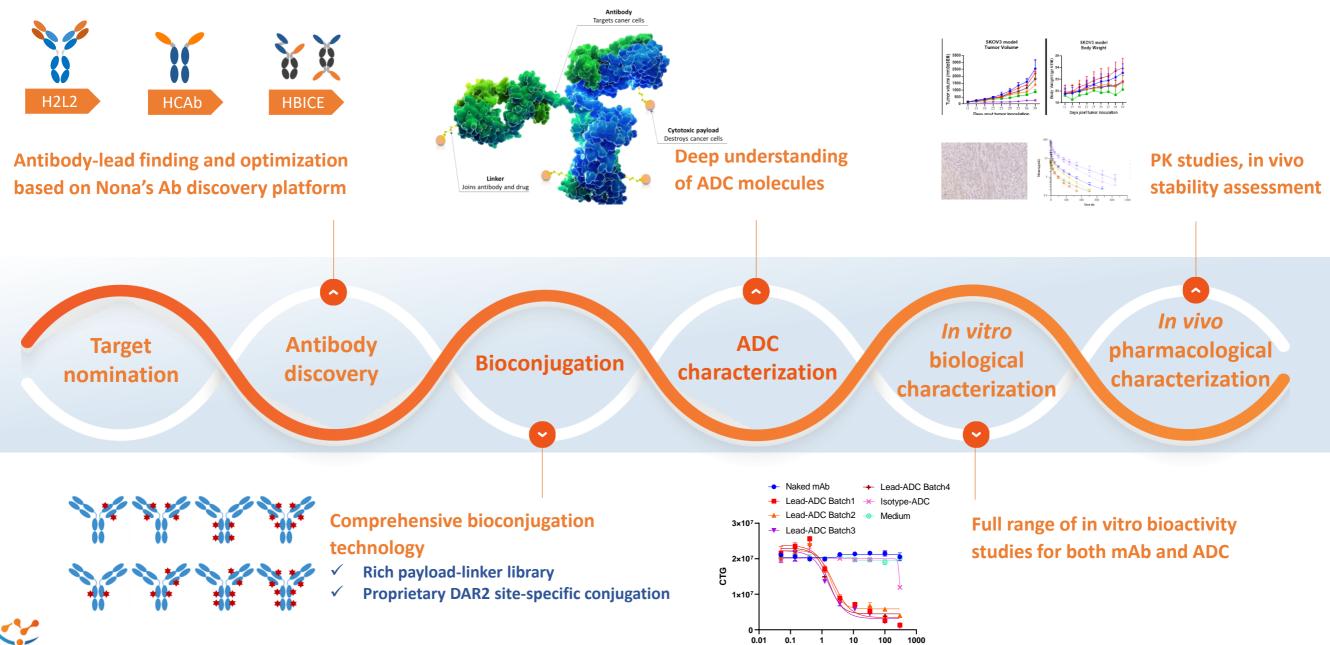
Artificial Intelligence



Artificial Intelligence for accelerating antibody discovery and optimization



Extend Antibody Discovery Platform to Integrated ADC Discovery Platform



NONA

Conc(nM)

Explore Frontiers in ADC Field

Collaborate with global ADC experts to build ADC ecosystem

Unveil the advantages of bispecific / biparatopic ADC

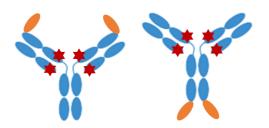
Application of HCAb in XDC for Diagnosis & Therapy







MYTHIC THERAPEUTICS



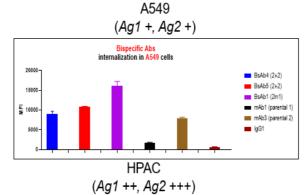
bsAb showed stronger internalization

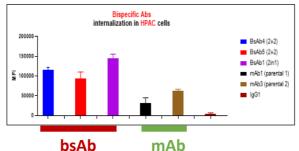


H2L2-ADC to MSLN

- ✓ fully human antibody with unique binding epitope
- ✓ Tumor specific cleavable linker with improved stability
- ✓ Superior in vivo potency and promising safety profile

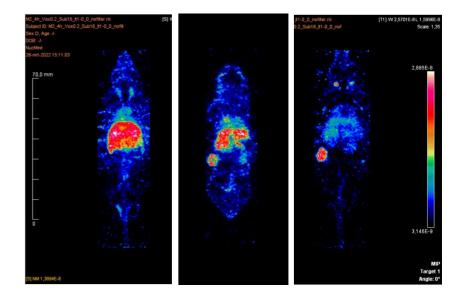




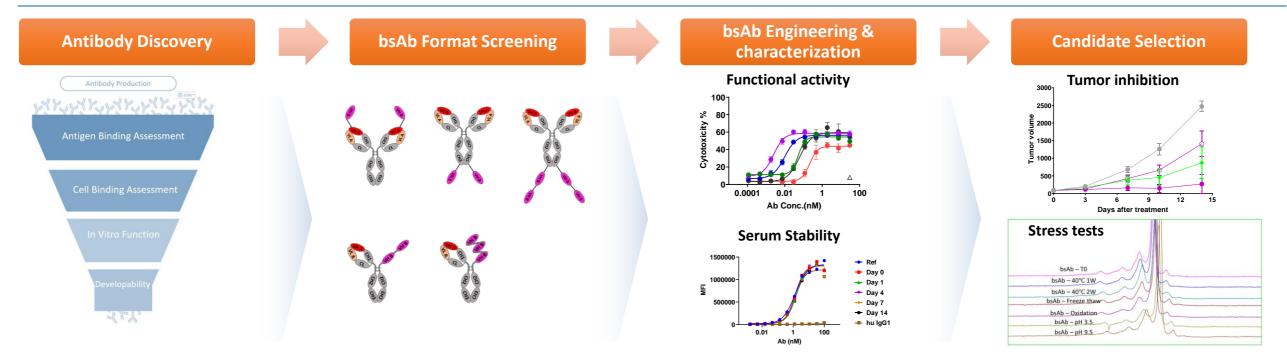








Comprehensive Bispecific Antibody Discovery Workflow to Reinforce Industry-leading HBICE[®] Platform (HCAb Based Immune Cell Engagers)



HBICE® Platform Has Been Endorsed by Global Partners



HBM7022 (CLDN18.2×CD3)

Unique 2+1 format with better activity and potential larger therapeutic window.





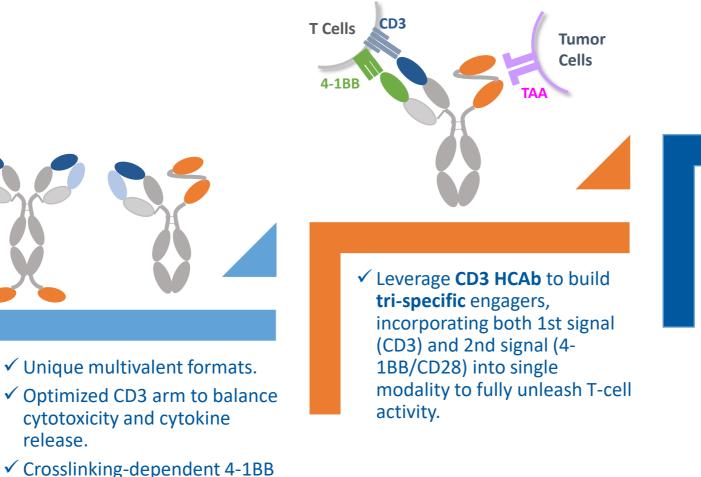
HBM7008 (B7H4×4-1BB)

First-in-class B7H4 ×4-1BB with excellent anti-tumor efficacy and safety profile.

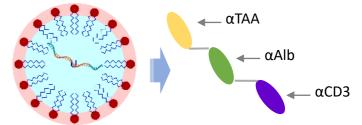




Upgrade Next-Gen HBICE[®] to Strengthen Our Leading Position in Bispecific Antibody Discovery



HCAbs without liver toxicity.



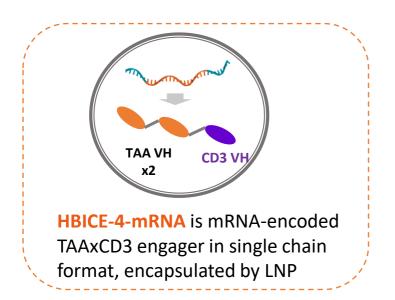
- mRNA-encoded HCAb-based bi-/tri-specific engagers for in vivo delivery.
- ✓ Bring more efficient and costeffective solution for new therapeutics

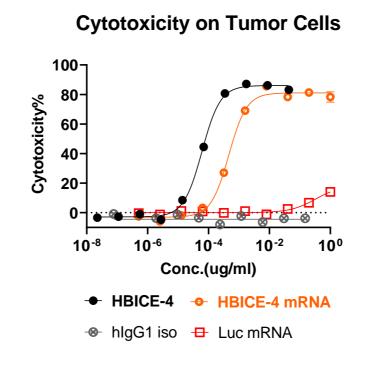


Combine mRNA & HBICE[®] Technologies to Create Next-Gen Therapeutics

mRNA-encoded TAAxCD3 engager can elicit excellent therapeutic potential with higher response rate, anti-tumor activity and longer treatment duration.

- Combination of mRNA technology and HBICE[®] platform
- Circumvent limitations of CMC challenges and short serum half-life for T cell engager
- Better stability and efficiency to accelerate the clinical development





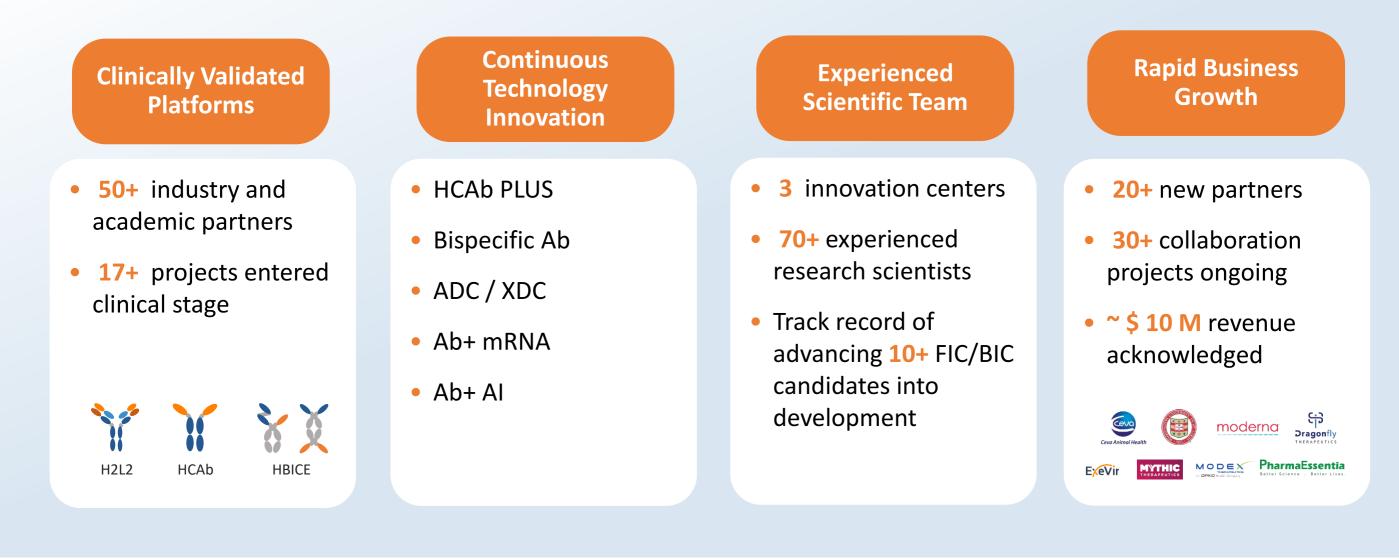
600volume (mm³±SEM) 500-400-300-200-Tumor 100-30 dosing40 50 70 60 Days after tumor inoculation PBS, QWx3 doses Luc-mRNA, 2.5mg/kg, QWx3 doses → HBICE-4-mRNA, 0.5mg/kg, QWx3 doses HBICE-4-mRNA, 2.5mg/kg, QWx3 doses → HBICE-4, 0.5mg/kg, QWx3 doses

PBMC Humanized Tumor Model

HBICE-4 is TAAxCD3 engager in single-chain format, purified protein. **Luc-mRNA** is mRNA-encoded Luciferase serving as negative control.



Nona Biosciences Leverages Industry-leading Technology Platforms to Empower Global Therapeutic Innovation







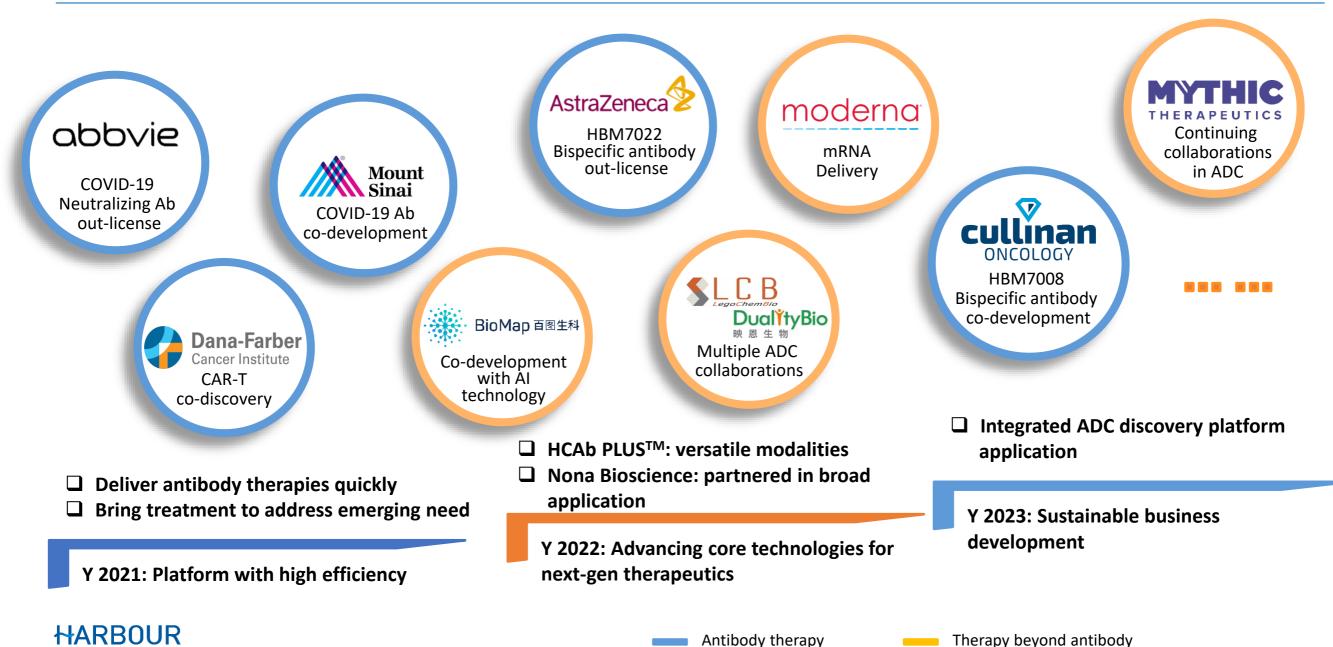
Business & Financial Review

Mr. Weihao Xu

Chief Financial Officer and Chief Business Officer



Significant Global Collaborations Unleashed Powerful Technology

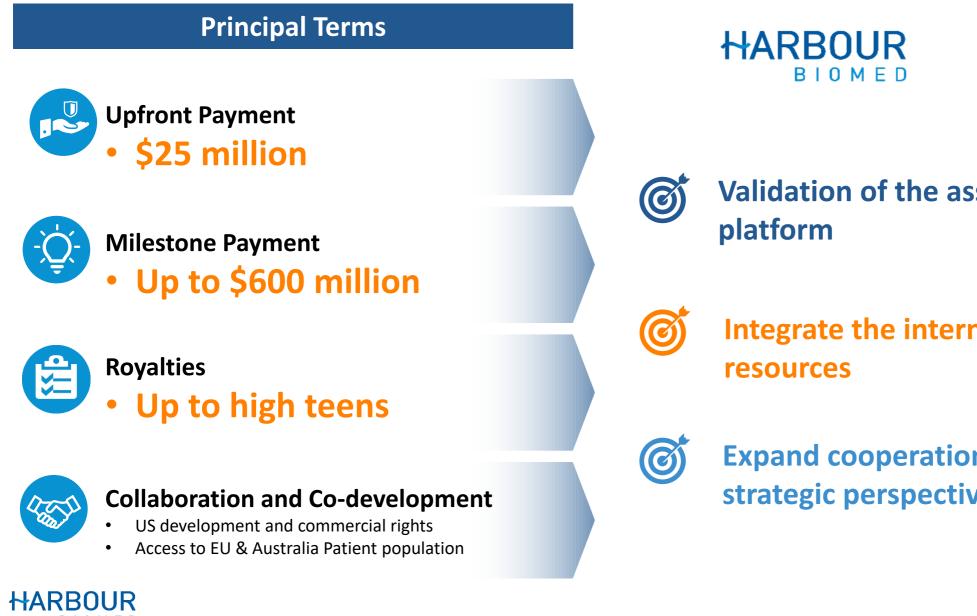


BIOMED

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Collaboration with Cullinan

Co-development on HBM7008 Drives Speed and Delivers both Short/Long Term Values





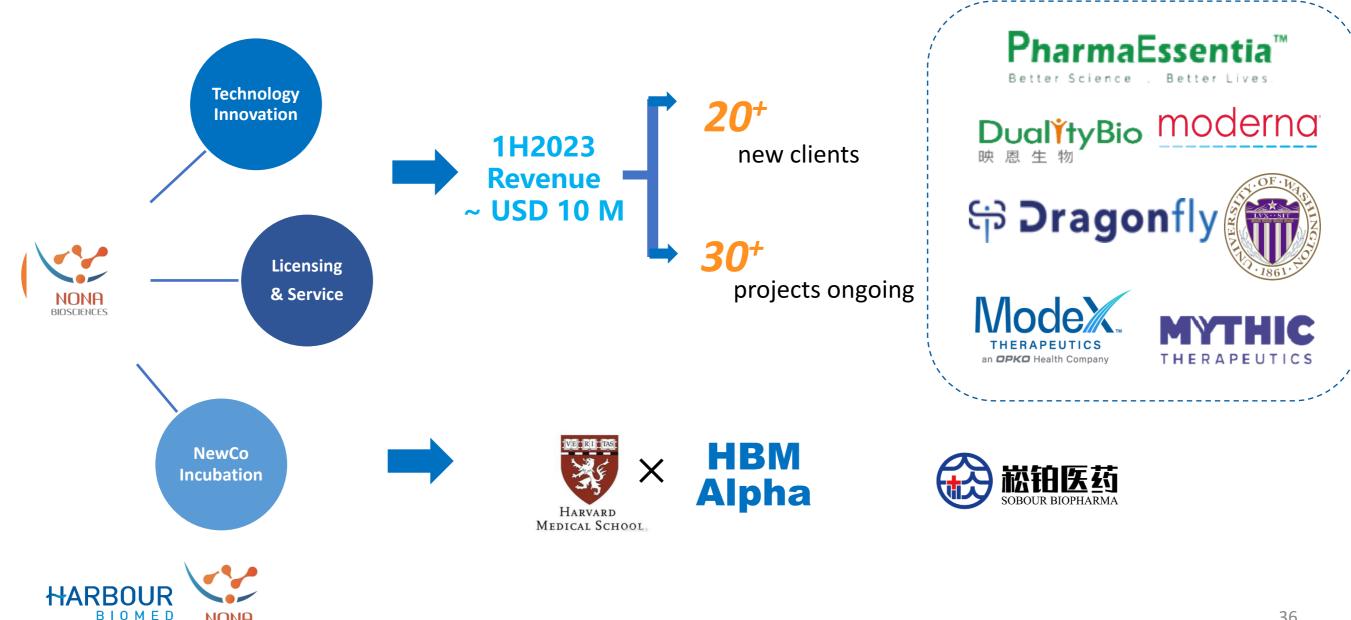
Validation of the assets and company's

Integrate the internal and external

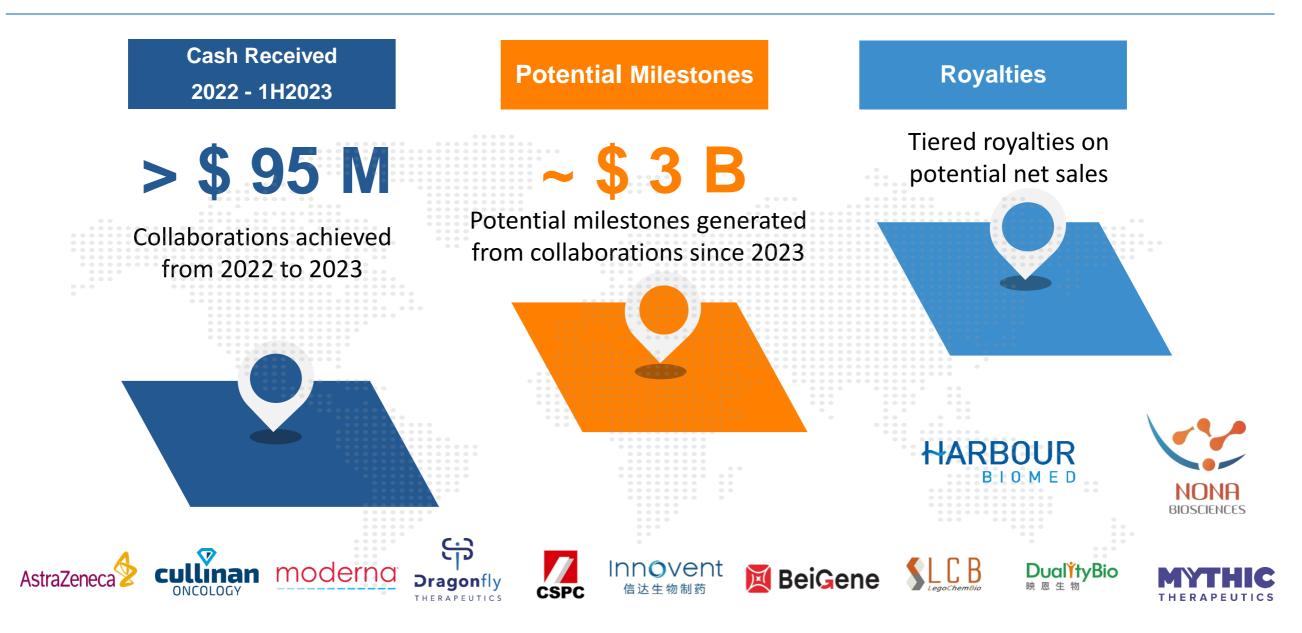
Expand cooperation network with global strategic perspective

Nona Biosciences Consistently Builds Innovation Ecosystem

NONA BIOSCIENCES



Value Creation Through Business Development

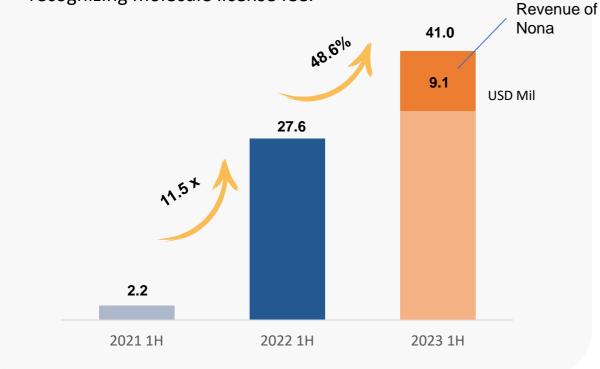




2023 Interim Results Positive Profit

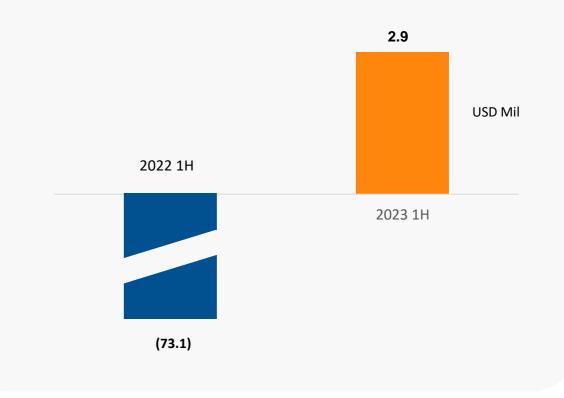
Projected Revenue

Total revenue of the Group increased significantly from US\$27.6 million for the six months ended 30 June 2022 to US\$41.0 million for the six months ended 30 June 2023, primarily due to the increase in our revenue from recognizing molecule license fee.



Profit for the Period

Profit for the period was recorded US\$2.9 million for the six months ended 30 June 2023, compared to a loss for the period of approximately US\$73.1 million for the six months ended 30 June 2022.





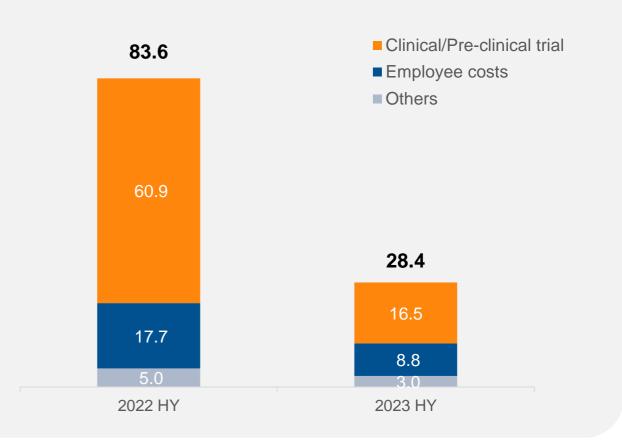
Collaborations Improve the Efficiency of R&D

Research and development costs

Research and development costs decreased significantly from US\$83.6 million for the six months ended 30 June 2022 to US\$28.4 million for the six months ended 30 June 2023.

This decrease was primarily attributable to :

- Decreased investments in clinical trials after multiple out-licensing transactions
- Decrease of our R&D staffs and share-based payment expenses





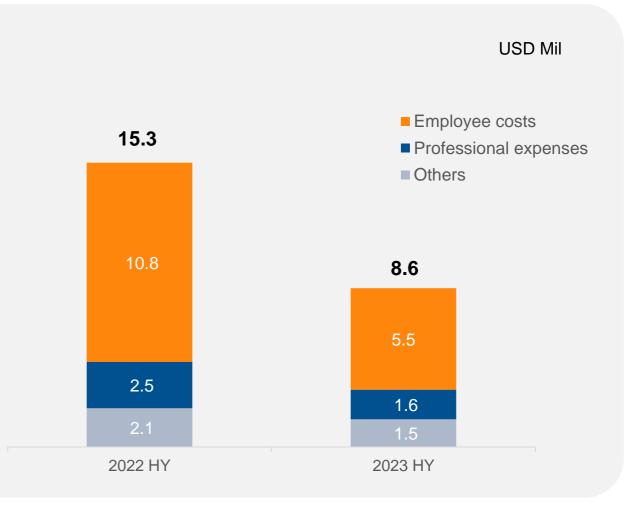
USD Mil

Administrative expenses

Administrative expenses decreased by US\$6.8 million to US\$8.6 million for the six months ended 30 June 2023

This decrease was primarily attributable to :

Decrease in employee cost from US\$10.8 million for the six months ended 30 June 2022 to US\$5.5 million for the six months ended 30 June 2023, caused by the decrease of salary and welfare in relation to our administration headcount.



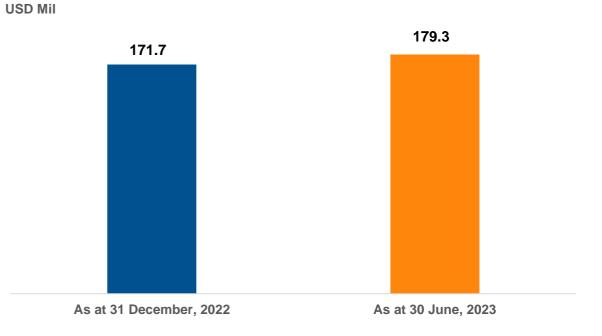


Summary of Consolidated Statements of Financial Position

USD Mil	30 June	31 December	
	2023	2022	
Non-current assets	20.5	23.1	
Current assets	203.0	209.0	
Include: Cash and bank balances	<u>179.3</u>	<u>171.7</u>	
Current liabilities	64.6	75.0	
Net current assets	138.4	134.0	
Non-current liabilities	58.5	64.6	
Net assets	100.4	92.5	

Cash and bank balances

Cash and bank balances increased from US\$171.7 million to US179.3\$ million.







ARBOUR big ministration

Outlook

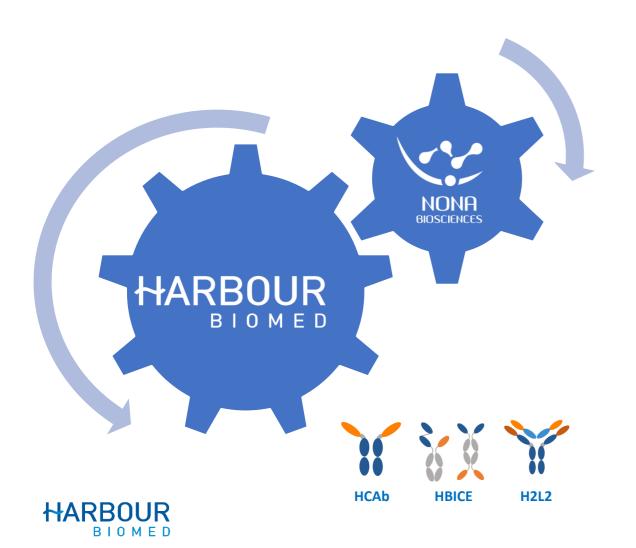
Dr. Jingsong Wang

Founder, Chairman of the Board and Chief Executive Officer



Harbour BioMed Bridging to New Era

Develop drugs and drug candidates with unique platform and excellent talent, ultimately bring the idea to fruition



- Harbour Therapeutic

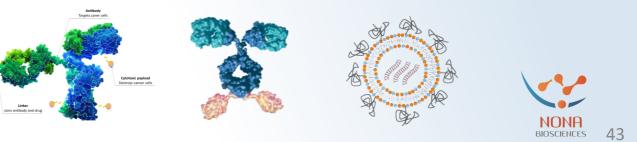
Multiple catalysts expected in next six months

- □ HBM4003 pivotal trial initiation
- □ HBM1020 preliminary safety and efficacy data readout
- □ HBM7008 phase I data readout in early 2024
- □ HBM9033 Phase 1 initiation

- Nona biosciences

Provides fully integrated solutions from I to I[™]

- □ Continuous innovation on platform
- **D** Expanding collaborations
- Integrated discovery solution for ADC, bispecific antibody, mRNA encoding......



HARBOUR BIOMED

Q&A



THANK YOU