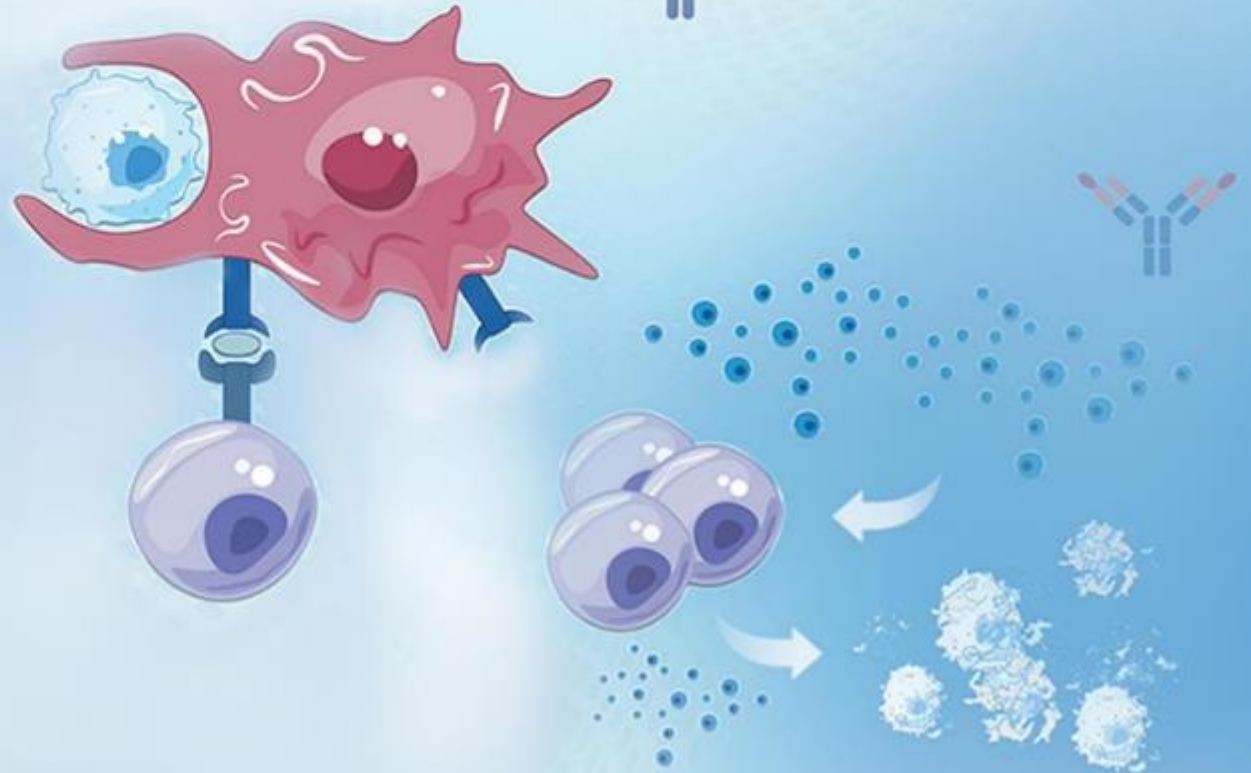




宜明昂科  
ImmuneOnco

# Corporate Presentation

March 2024



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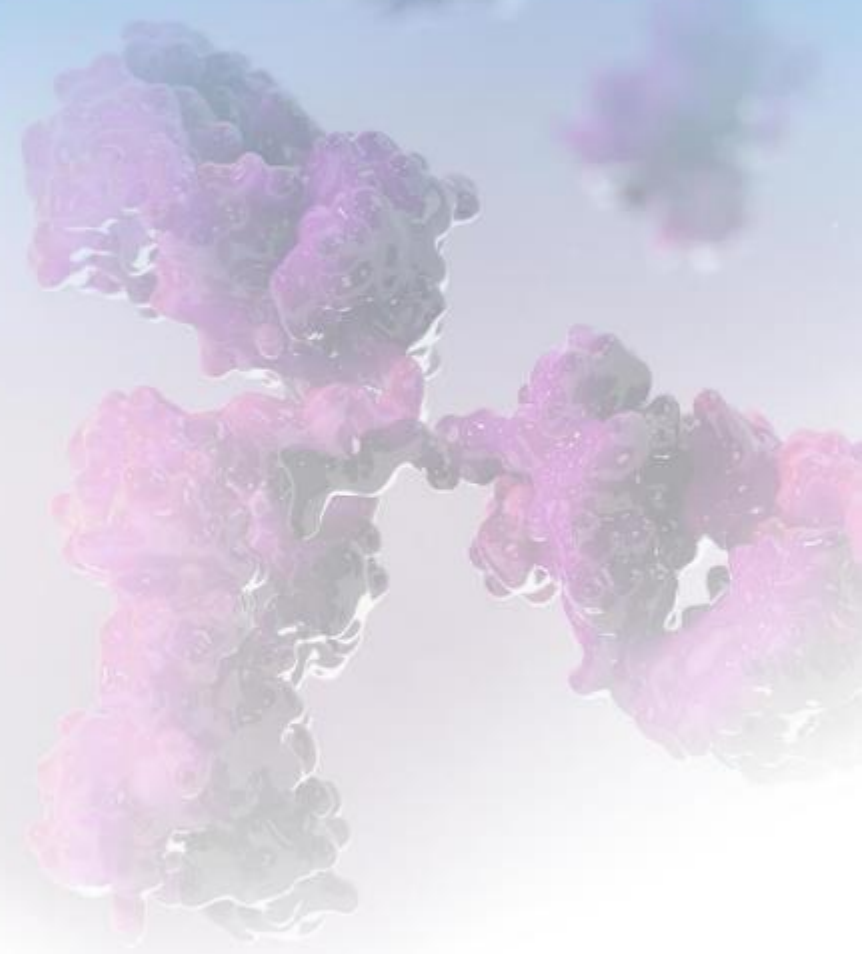
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SECTION 1

# Company Overview



# Mission:

“

TO DEVELOP BEST-IN-CLASS AND/OR  
FIRST-IN-CLASS ANTI-CANCER DRUGS  
FOR CANCER PATIENTS AROUND THE  
WORLD

”



## Key Milestones



- Steady team with **10+** years coordination



- 33** issued patents, **1** allowed patent applications,
- 20** pending patent applications

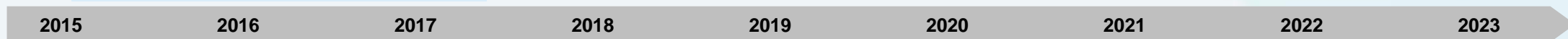


- 24** IND approvals from the NMPA and the FDA



- 10** ongoing clinical programs, **3** IND/IND-enabling stage programs

	2015-2020	2021	2022-2023
<b>Pipeline</b>	<ul style="list-style-type: none"> <li>2015: ImmuneOnco was incorporated in the PRC</li> <li>2019: The first patient of the Phase I clinical trial for <b>IMM01</b> was enrolled</li> <li>2019: IND approval for <b>IMM0306</b> from NMPA</li> <li>2020: Established the <b>pilot production line</b> with 200L GE single-use mammalian cell bioreactors</li> <li>2020: IND approval for <b>IMM2510</b> from NMPA</li> </ul>	<ul style="list-style-type: none"> <li><b>IMM01:</b> <ul style="list-style-type: none"> <li>IND approval by NMPA for the Phase Ib/II clinical trial of <b>IMM01's combination with each of azacitidine and inetetamab</b></li> <li>Phase II initiation for <b>IMM01 monotherapy</b></li> </ul> </li> <li><b>IMM0306:</b> <ul style="list-style-type: none"> <li>IND approval by FDA</li> </ul> </li> <li><b>IMM2902:</b> <ul style="list-style-type: none"> <li>IND approval by NMPA and FDA</li> </ul> </li> <li><b>IMM27M:</b> <ul style="list-style-type: none"> <li>IND approval by NMPA</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li><b>IMM01:</b> <ul style="list-style-type: none"> <li>Phase Ib/II clinical trial initiation for <b>IMM01's combination with azacitidine</b> and <b>dosed the first patient</b></li> <li>Phase II trial initiation in China for <b>IMM01's combination with tislelizumab</b></li> </ul> </li> <li><b>IMM2520:</b> <ul style="list-style-type: none"> <li>IND approved by NMPA and FDA and dosed the first patient for the Phase I clinical trial in China</li> </ul> </li> <li><b>IMM40H:</b> <ul style="list-style-type: none"> <li>IND approved by NMPA and FDA</li> </ul> </li> <li><b>IMM2902:</b> <ul style="list-style-type: none"> <li>Phase I clinical trial dosed their respective first patient in China and US; received Fast Track Designation from FDA</li> </ul> </li> <li><b>IMM2510:</b> <ul style="list-style-type: none"> <li>IND approved by NMPA for IMM2510 and chemo combo's Phase Ib/II trial as well as the Phase Ib/II trial for IMM2510 and IMM27M's combination</li> </ul> </li> <li><b>IMM0306:</b> <ul style="list-style-type: none"> <li>Phase Ib/IIa trial initiation in China for <b>IMM0306's combination with lenalidomide</b> and dosed its first patient</li> </ul> </li> </ul>



Year	2015	2016	2017	2018	2019	2020	2021	2022	2023
<b>Financing</b>			2017: Series Pre-A, RMB30 MM	2018: Series A, RMB90 MM	2020: Series Pre-B, RMB40 MM	2020: Series B, RMB240 MM	2021: Series B+, US\$65 MM	2022: Series C, US\$87.5 MM	2023: IPO, US\$43 MM

### Key Investors

Lilly Asia Ventures  
礼来 亚洲基金



南京星健睿赢

荣昌股权投资


Total amount of fund raised: ~\$255MM

## Management team



**Wenzhi Tian, MD,  
EMBA**  
Founder, Chairman &  
CEO

 **30+** years academic and industrial experience in the field of immuno-oncology

 **24** IND approvals from the NMPA and the FDA

 **27** issued patents, **21** patent applications, and **30+** scientific publications



Karolinska  
Institutet



Weill Cornell  
Medicine



North Shore  
University Hospital



ImClone Systems



**Qiying Lu, MD**  
CMO, SVP



**Frank Xiaodong Gan, Pharm.D.**  
SVP, Clinical Development



**Zikai Xiong, PhD**  
SVP, BD



**Mr. Ruliang Zhang**  
Deputy General Manager  
SVP, CMC & Registration



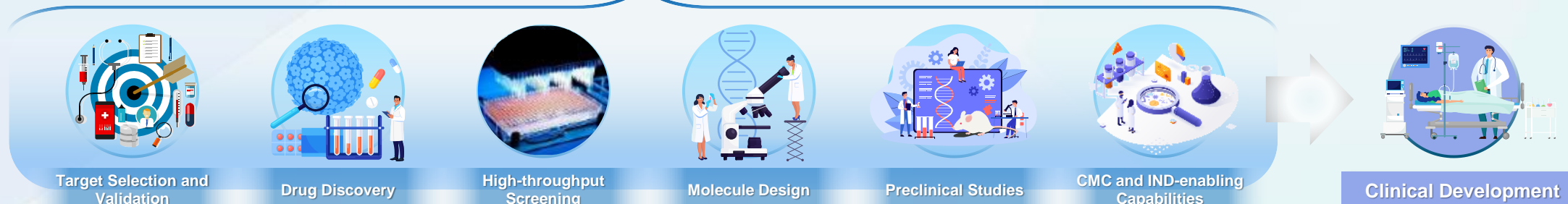
**Song Li, BA, MS**  
VP, R&D



**Mei Guan, BS, MS**  
Secretary of the Board



# Integrated proprietary R&D platform



## Integrated in-house R&D Platform

<p><b>Advanced Hybridoma Technology</b></p> <ul style="list-style-type: none"> <li>Efficiently identify and improve antibody fragments with higher specificity, affinity and other best-suited properties</li> </ul>	<p><b>High-throughput Screening</b></p>	<p><b>Proprietary mAb-Trap Bispecific Platform</b></p> <ul style="list-style-type: none"> <li>Allowing for favorable binding affinity with tumor targets while preserving IgG1 Fc effector function</li> <li>Ease of manufacturing, product stability, higher tier and protein yield</li> </ul>	<p><b>Strong Immunoassay and Bioassay Technology</b></p>	<p><b>Efficient Cell Line Development</b></p>	<p><b>Robust CMC and Manufacturing Capacity</b></p> <ul style="list-style-type: none"> <li>Our stable R&amp;D, CMC and regulatory affairs teams with 62 members</li> </ul>
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Pilot manufacturing: 200L/250L bioreactors

**Global Rights**

- 24 IND approvals from the NMPA and the FDA
- 33 Issued patents
- 1 Allowed patent applications
- 20 Pending patent applications



# Comprehensive Pipeline Covering Oncology and non-Oncology Therapeutic Areas

Program <sup>(1)</sup>	Target (Modality)	Indication(s)	Discovery	Preclinical	IND/IND-Enabling	Phase Ia/I	Phase Ib/II	Phase III/ Pivotal	Current Status / Upcoming Milestone	Commercial Rights
<b>IMM01</b>										
IMM01 + Azacitidine	CD47 (SIRPα-Fc fusion protein)	MDS, AML, CMML <sup>(2)</sup>	China (NMPA)						Phase Ib/II commenced in January 2022; expect to complete Phase II and initiate CDE discussion in Q1 2024	Global
IMM01 + Tislelizumab	CD47+PD-1	cHL <sup>(3)</sup> , Solid tumor	China (NMPA)						Phase Ib/II commenced in May 2022; communicated with CDE on Phase III trial design in January 2024	Global
<b>IMM0306</b>										
IMM0306 Monotherapy	CD47xCD20 (Bispecific)	R/R FL&MZL	China (NMPA)						Phase II trial commenced in Q2 2023	Global
IMM0306 + Lenalidomide	CD47xCD20 (Bispecific)	B-NHL	China (NMPA)						Phase Ib/IIa commenced in June 2023 in China	Global
<b>IMM2510</b>										
IMM2510 Monotherapy	VEGFxPD-L1 (Bispecific)	STS	China (NMPA)						Phase Ib/II commenced in November 2023 in China	Global
IMM2510 + Chemo	VEGFxPD-L1 (Bispecific)	1L TNBC, 1L NSCLC	China (NMPA)						IND approved in China in November 2023	Global
IMM2510 + IMM27M	VEGFxPD-L1 (Bispecific) + CTLA-4	2L HCC, TNBC	China (NMPA)						IND approved in China in October 2023	Global
<b>IMM27M</b>										
IMM27M	CTLA-4 ADCC+ (mAb)	Solid tumors	China (NMPA)						Phase I completed in September 2023 in China and RP2D was identified as 5mg/kg	Global
<b>IMM2902</b>										
IMM2902	CD47xHER2 (Bispecific)	HER2-positive and low-expressing solid tumors	China (NMPA), US (FDA)						Phase Ia commenced in February 2022 in China and in June 2022 in the U.S.	Global
<b>IMM2520</b>										
IMM2520	CD47xPD-L1 (Bispecific)	Solid tumors	China (NMPA), US (FDA)						IND approved in China and the U.S. in Q4 2022; Phase I commenced in China in March 2023 and 5 <sup>th</sup> cohort ongoing	Global
<b>IMM47</b>										
IMM47	CD24 (mAb)	Solid tumors	China (NMPA), US (FDA)						IND approved in China and the U.S. in October and December in 2023; Phase I commenced in September 2023 in Australia	Global
<b>IMM40H</b>										
IMM40H	CD70 (mAb)	Liquid/Solid tumors	China (NMPA), US (FDA)						IND approved in China and the U.S. in August 2022	Global
<b>IMM4701</b>										
IMM4701	CD24xCD47 (Bispecific)	Solid tumors	China (NMPA), US (FDA)						IND-enabling	Global
<b>IMC-002 (IMM0306)</b>										
IMC-002 (IMM0306)	CD47xCD20 (Bispecific)	Undisclosed							Filed IND application with the NMPA in March 2024	Global
<b>IMC-001 (IMM01)</b>										
IMC-001 (IMM01)	CD47 (SIRPα-Fc fusion protein)	Undisclosed							IND-enabling	Global
<b>IMC-003 (IMM72)</b>										
IMC-003 (IMM72)	ActRIIA (Fc-fusion protein)	PAH, Undisclosed							IND-enabling in one year	Global
<b>IMC-004 (IMM7211)</b>										
IMC-004 (IMM7211)	ActRIIA x Non-disclosed (Bispecific)	Undisclosed							IND-enabling in one and a half year	Global

Source: Company Data

Notes:

- All of the Company's clinical- and IND-stage drug candidates are classified as Category 1 innovative drugs, and preclinical- and discovery-stage drug candidates are expected to be classified as Category 1 innovative drugs, in accordance with relevant laws and regulation in China.
- The cohort-expansion trials of this combination are mainly designed to target the first-line treatment of higher-risk MDS (patients who fall into higher-risk group categories in the original or revised International Prognostic Scoring System), unfit AML (individuals of older age with AML who are considered not eligible for intensive treatment approaches), and CMML. On November 8, 2023, the combination therapy of IMM01 and Azacitidine was granted the orphan-drug designation by the FDA for the treatment of CMML.
- This combination of IMM01 and tislelizumab targets all subtypes of cHL.

Innate Immunity Targets

Innate and Adaptive Immunity Targets

Adaptive Immunity Targets

Autoimmune and metabolic disease

# Highlights of Projects at Clinical Stages

## IMM01 (SIRPα-Fc)



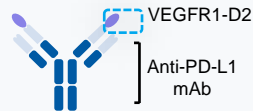
- IMM01 + Azacitidine, Ph II (CMML, MDS, AML)
- Best response
  - ✓ 1L CMML: ORR 84.6%<sup>(1)</sup>
  - ✓ 1L MDS: ORR 89.3%<sup>(1)</sup>
- IMM01 + Tislelizumab, Ph II (solid tumors and lymphoma)
- PD-1 failed R/R cHL: ORR 66.7%
- Issued patents in China, the U.S., Japan and Europe

## IMM0306 (CD47xCD20 mAb-Trap)



- IMM0306 + Lenalidomide, Ph Ib/IIa (FL, MZL)
- Best response: 1CR, 4PRs and 1SD out of 7 evaluable patients.
- No DLT observed at 2mg/kg
- Issued patents in China, the U.S., Japan and Europe
- Potentials in other indications SLE, RA, MS can also be explored

## IMM2510 (VEGFxPD-L1 mAb-Trap)



- Ph II (Monotherapy, STS)
- IND approved for Ph Ib/II:
  - + Chemo: 1L TNBC, NSCLC
  - + 27M: 2L HCC, TNBC
- No DLT at 20mg/kg
- Best response: 3 PRs, including two NSCLC patients and one thymus adenosquamous carcinoma patient; 4SDs with tumor shrinkage of over 15%
- Issued patents in China, the U.S. and Japan

## IMM27M (CTLA-4, ADCC-enhanced IgG1)



- Ph I
- RP2D: 5mg/kg
- Best response: 2PRs, 3SDs with tumor shrinkage
- Patent application planning

## IMM2902 (CD47xHER2 mAb-Trap)



- Ph I (4.0mg/kg finished, higher dose ongoing)
- Phase I in China and the U.S.; Fast Track Designation from the FDA
- Issued patents in the U.S., Japan and Europe

## IMM2520 (CD47xPD-L1 mAb-Trap)



- Ph I (FPI in 2023)
- Issued patents in China, the U.S. and Japan

## IMM47 (CD24, ADCC-enhanced IgG1)



- Ph I (FPI in Australia in 2023)
- Issued patents in China, the U.S. and Japan

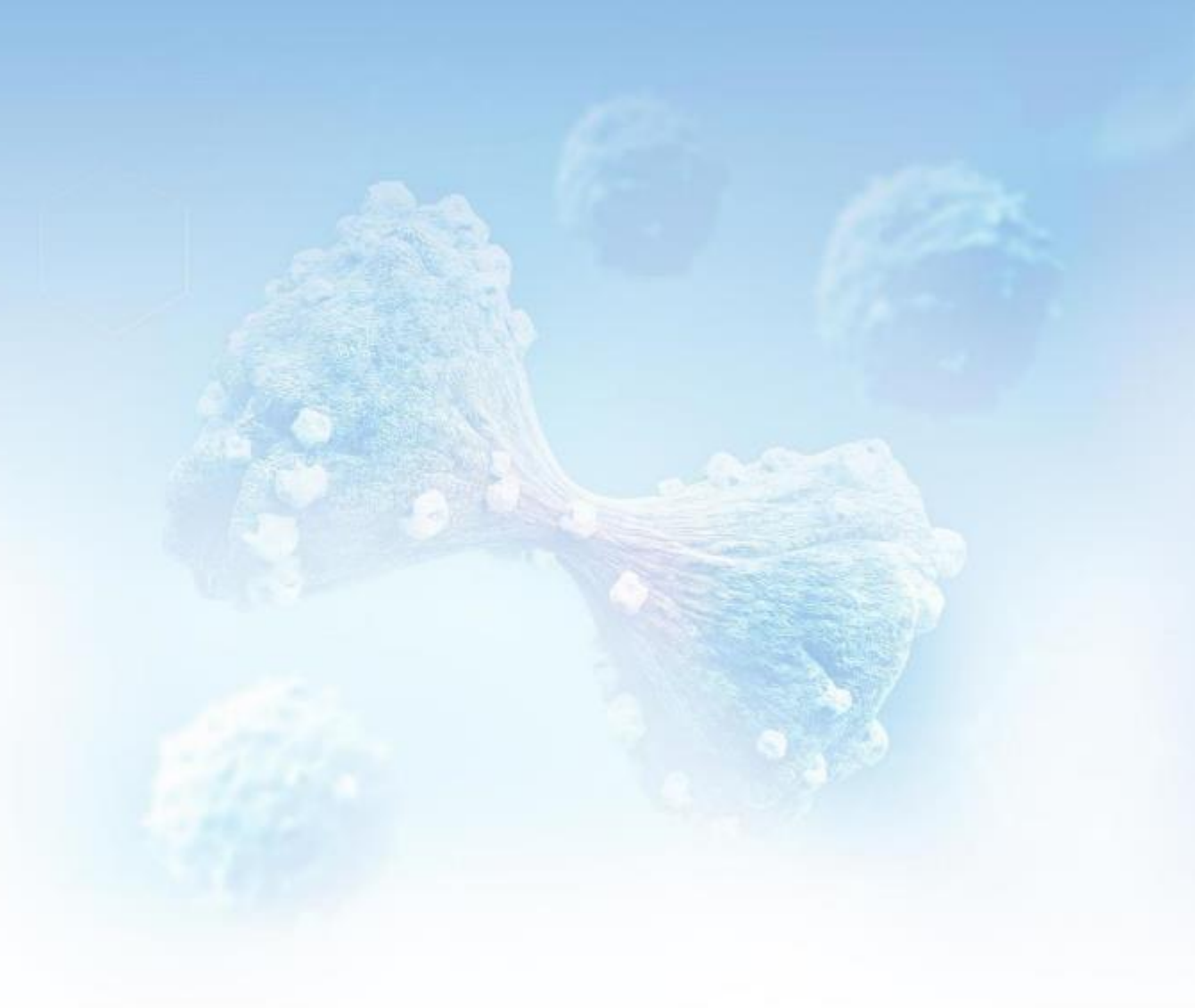
**Notes:**

1. Patients treated for over 6 months

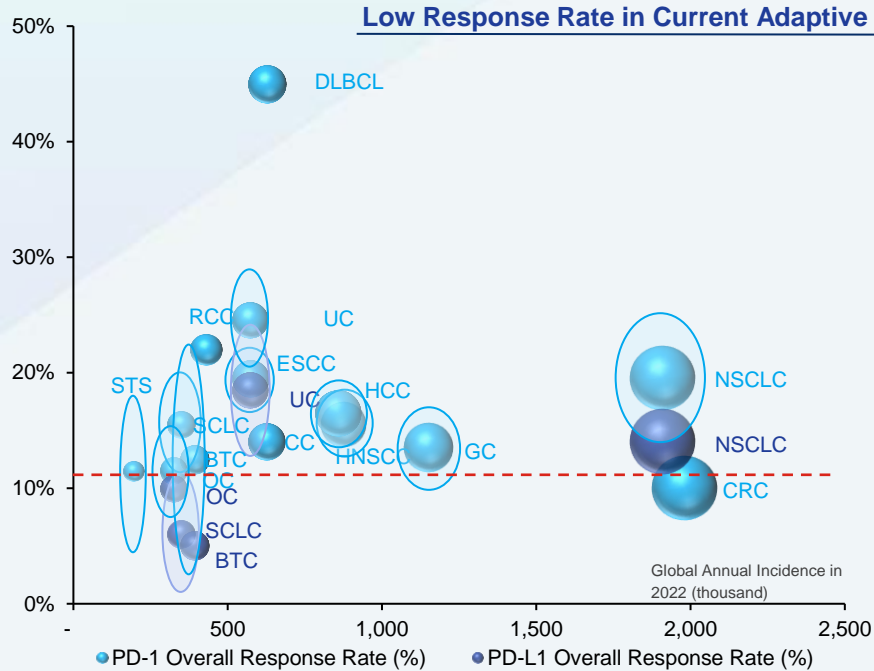


SECTION 2

# Our Approach



## Although PD-1/PD-L1 Inhibitors Have Been Hugely Successful with Approvals in Almost All Major Tumor Indications, Its Monotherapy Response Rates Are Generally **Below 20%**



The current approved immunotherapies primarily target T-cell immune checkpoints, including **PD-1/PD-L1, CTLA-4 and LAG-3**



Only about **10% to 25%** of patients across almost all major cancer types respond to PD-1/PD-L1 inhibitor monotherapy



In 2035, the global immuno-oncology therapy market is projected to reach **US\$340.4 billion**, accounting for **over 50%** of the total global oncology market

**PD-1/PD-L1 Inhibitor Monotherapy**

*Low response rates<sup>2</sup> across almost all major cancer indications*

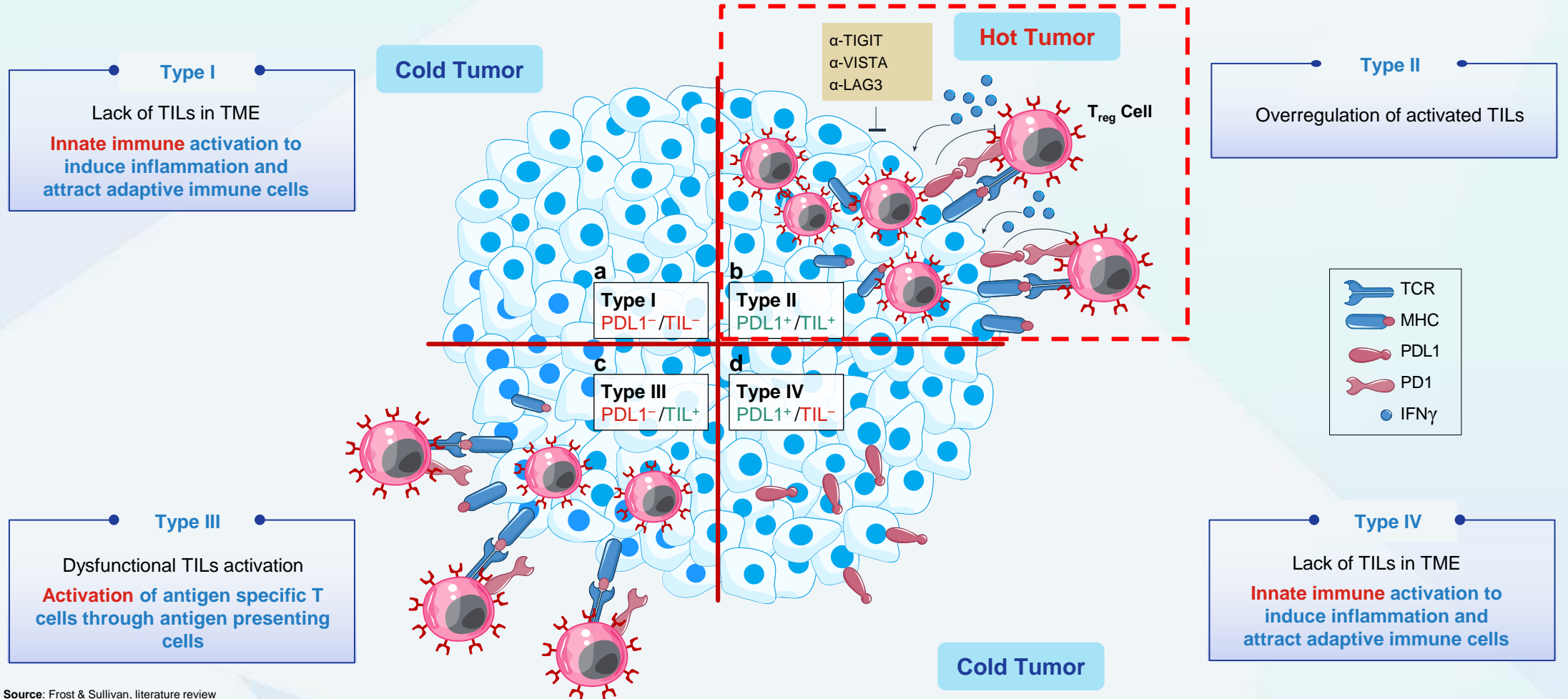
	NSCLC	SCLC	CRC	GC	HNSCC	HCC	ESCC	BTC	RCC	OC	CC	UC	STS	DLBCL
<b>PD-1</b>	19-20%	12-19%	<10%	13-14%	13-16%	16-17%	19-20%	3-22%	22%	8-15%	14%	20-29%	5-18%	45%
<b>PD-L1</b>	14%	2-10%						5%		10%		13-24%		

**Notes:**

1. Bubble size indicates annual incidence of diseases. (1) The response rates are based on the latest label from FDA and NMPA except for CRC, GC, SCLC, OC, BTC and STS, which are based on the published clinical results. (2) Only monotherapy clinical results are listed. (3) Results of adjuvant therapy are excluded. Results may vary from different cancer sub-types or clinical trials. (4) The clinical results listed are from general cancer population regardless of PD-L1 expression, except for the ORR of CC, which is restricted in PD-L1 positive population (combined positive score (CPS)≥1).

Source: Frost & Sullivan

## Research Has Shown PD-1/PD-L1 Inhibitors Are Only Expected to be Effective in Hot Tumors, Corresponding to its Limited Monotherapy Response Rates








Source: Frost & Sullivan, literature review



## The Activation of Innate Immune Cells is Able to Attract T Cells into Tumor Microenvironment, Turning Cold Tumors to Hot Tumors, Significantly Improve the Response Rates of PD-1/PD-L1 Inhibitors

### Overview of Innate and Adaptive Immune Systems

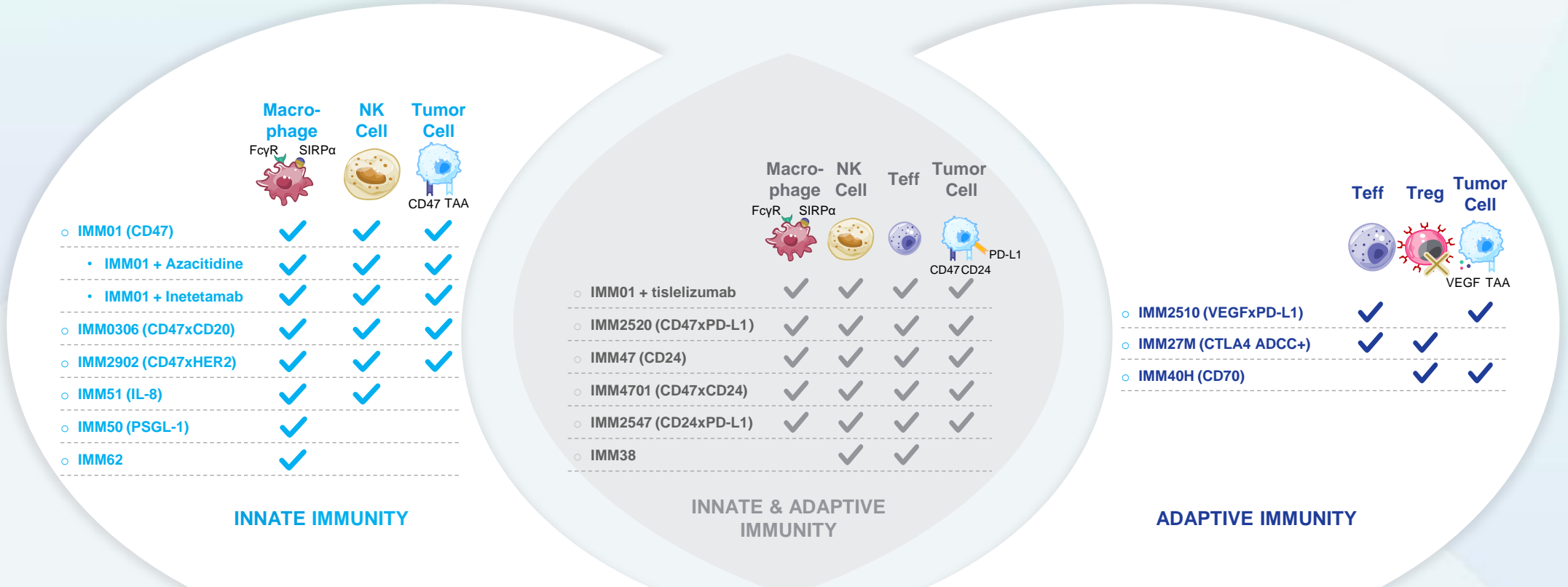
	Innate Immunity			Adaptive Immunity	
 <b>Activation Process</b>	First line of defense, short response time, no need for antigen priming			Antigen priming required	
 <b>Key Immune Cell Type</b>	Macrophage	NK cell	DC	T cell	B cell
 <b>Tumor Tissue Distribution<sup>1</sup></b>	20%-50%	5%-10%	3%-10%	10%-30%	3%-40%
 <b>Major Immune Checkpoint(s)</b>	CD47/SIRP $\alpha$ , CD24/Siglec-10, PSGL-1, EP4	KIR family, CD94-NKG2A, CD24/Siglec-10, TIGIT, EP4	PD-1/PD-L1, CD47/SIRP $\alpha$ , EP4	PD-1/PD-L1, CTLA-4, LAG-3, TIM-3, TIGIT	CD40/CD40L, CD19, CD22
 <b>Major Immune Functions</b>	<ul style="list-style-type: none"> <li>• Macrophage-mediated phagocytosis</li> <li>• Attracting T cells to the TME</li> <li>• Antigen presentation</li> <li>• Trogocytosis</li> </ul>	<ul style="list-style-type: none"> <li>• NK cell-mediated cytotoxicity via the secretion of perforin and granzymes</li> <li>• Activating of T cells, macrophages and DCs through release of cytokines</li> </ul>	<ul style="list-style-type: none"> <li>• Attracting T cells to the TME</li> <li>• Antigen presentation</li> </ul>	<ul style="list-style-type: none"> <li>• T-cell mediated killing of tumor cell via exocytosis of cytotoxic granules (perforin, granzymes) and secretion of antitumor cytokines</li> </ul>	<ul style="list-style-type: none"> <li>• Antibody production</li> <li>• Cytokine secretion</li> </ul>



**Notes:**

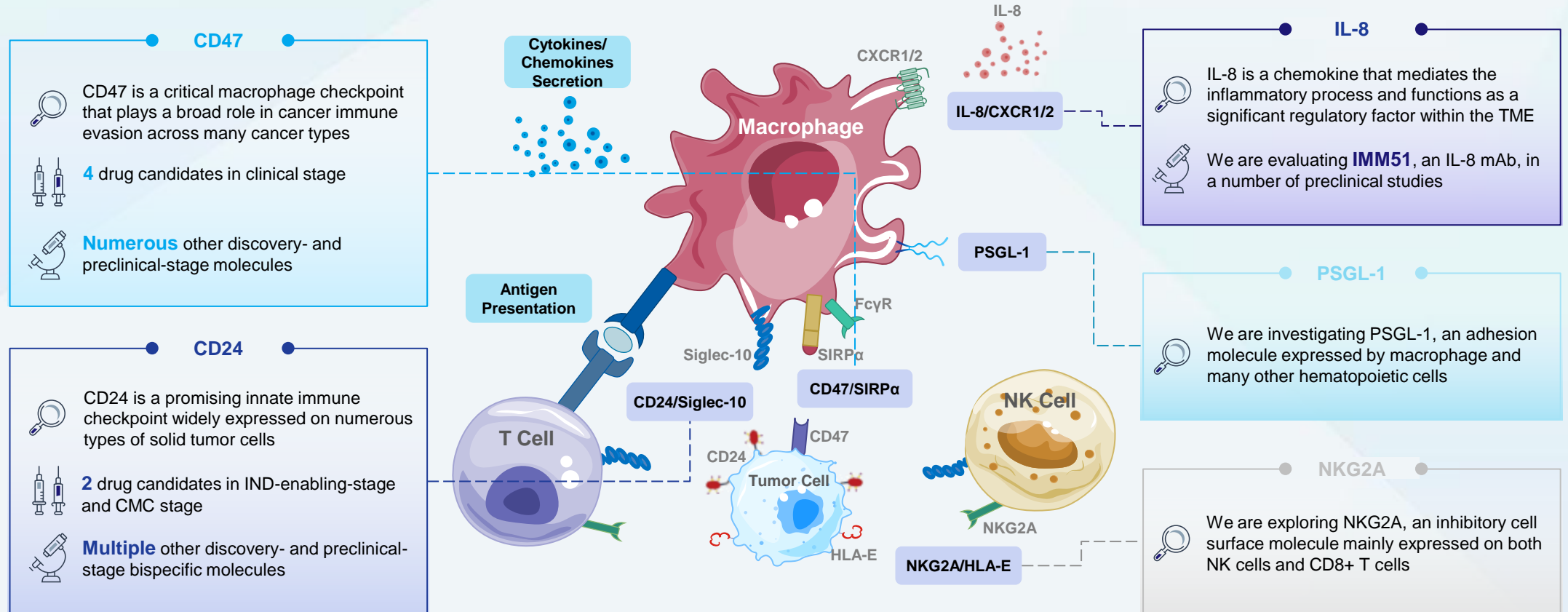
1. The tumor tissue distribution is the proportion of certain immune cells in different tumor tissues

## Our Pipeline Harnessing Both Innate and Adaptive Immunities



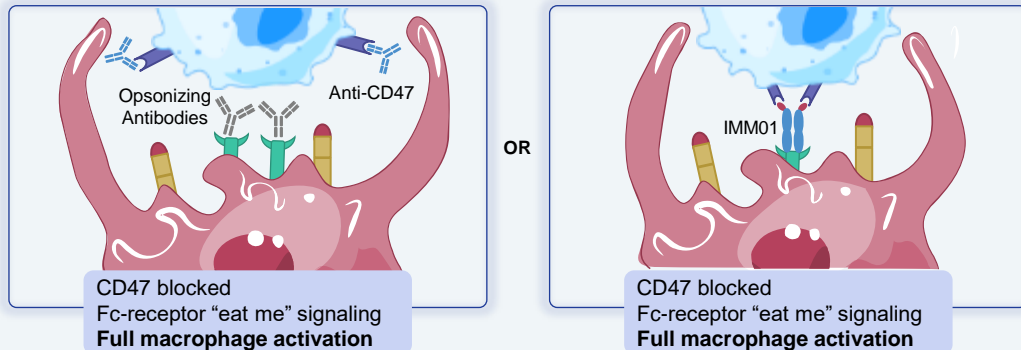
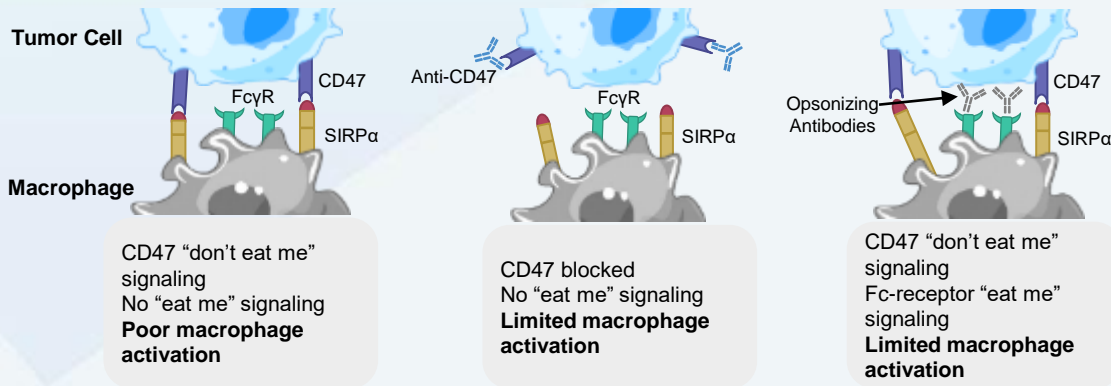
The Company stands out as one of the few biotechnology companies globally adopting a systematic therapeutic approach to harness both the innate and adaptive immune systems

## Deep and broad innate immunity-based portfolio targeting a wide range of solid and hematologic tumors to address critical unmet medical needs



## Scientifically and structurally differentiated molecule design based on our “drug-by-design (DbD)” concept to achieve potent efficacy and favorable safety

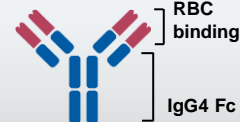
### Mechanism of Action in the CD47-SIRP $\alpha$ Signaling Pathway



Guided by the DbD concept, our **differentiated molecule design** tackles scientific barriers presented by the selected immune checkpoints, leading to an **optimized safety and efficacy profile**

### How Our Differentiated Design Improves Safety and Efficacy

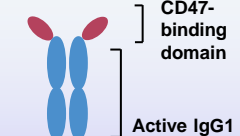
● *The safety concerns around CD47 pose considerable challenge* ●



CD47 antibody

- RBC binding → CD47 antibodies inevitably bind with RBCs, generating issues including **severe blood toxicity, antigenic sink, and decreased potency**
- IgG4 Fc → Most CD47 antibodies resort to an **IgG4 Fc** with **weak FcγR engagement**, unable to deliver the “eat me” signal

● *Our differentiated design allows full macrophage activation* ●



IMM01

- CD47-binding domain → Engineered CD47-binding domain with **no RBC binding in vitro**; Modification of deglycosylation of the binding domain **mitigates immunogenicity**
- Active IgG1 → No RBC binding enables usage of **potent IgG1 Fc**

## Scientifically and structurally differentiated molecule design based on our “drug-by-design (DbD)” concept to achieve potent efficacy and favorable safety (cont’d)

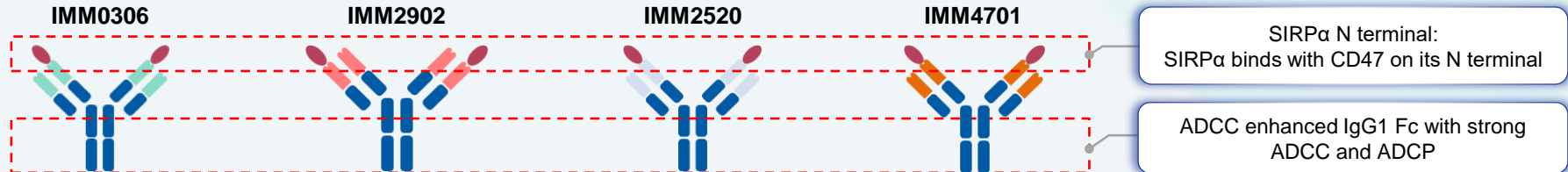
### How Our Differentiated Design Improves Safety and Efficacy – CD47-based Bispecific Molecules



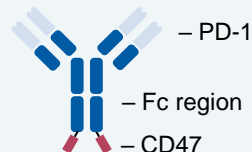
The structure of our bispecific molecules was **deliberately designed through a series of rigorous studies and tests guided by our “DbD” concept** on various aspects, including synergy between targets, tailored molecule structure, expected dosing level, stability, and ease of manufacturing



We developed our CD47-based bispecific molecules leveraging our **mAb-Trap platform** – all having symmetrical structure with the same engineered CD47-binding fragment used in IMM01



HX009 (Hans Bio)



Certain molecules connect the CD47-binding domain to the Fc end, which could **interfere with CD47-binding epitope located at the N-terminal of SIRPα fragment**, and further **disrupt immune activation resulted from Fc-FcγR engagement**

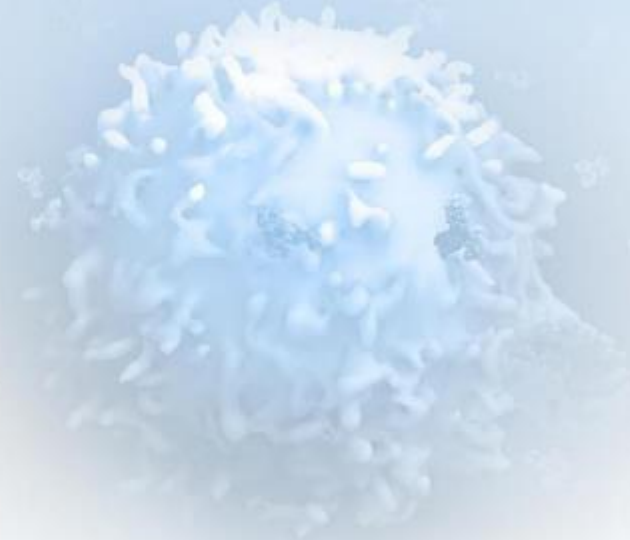




宜明昂科  
ImmuneOnco

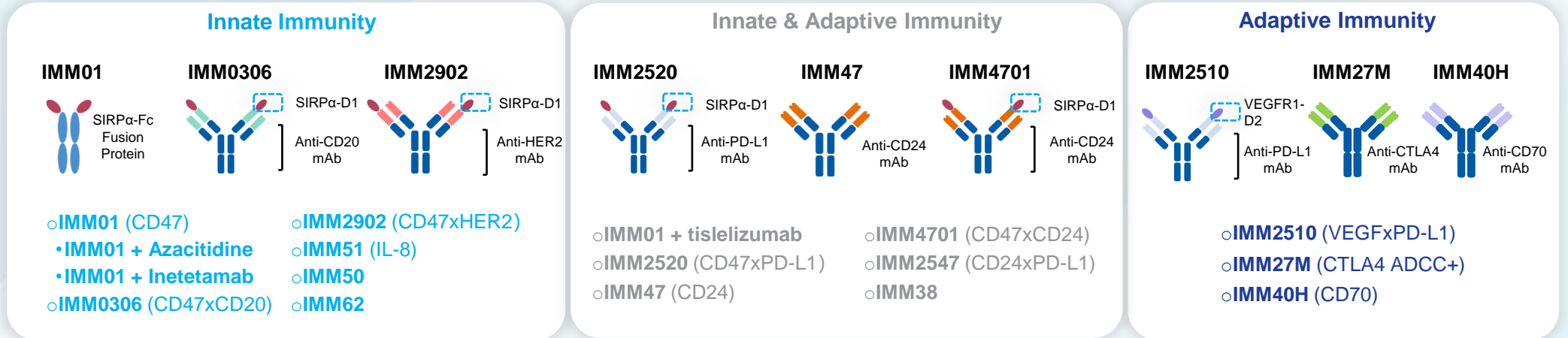
SECTION 3

# Oncology Program Overview



## Our differentiated approach to developing therapies targeting CD47-based and other promising innate and adaptive immune checkpoints

### Our Approach to Seize Market Opportunities



### Wide Range of Indications with Unmet Need



### Achieve Better Therapeutic Efficacy and Safety Profiles

**Notes:**

ADCC refers to antibody-dependent cellular cytotoxicity; NSCLC refers to non-small cell lung cancer; SCLC refers to small cell lung cancer; HNSCC refers to head and neck squamous cell carcinoma; HCC refers to hepatocellular carcinoma; CRC refers to colorectal cancer; GC refers to gastric cancer; OC refers to ovarian cancer; ESCC refers to esophageal squamous cell carcinoma; UC refers to urothelial carcinoma; B-NHL refers to B-cell non-Hodgkin lymphoma; AML refers to acute myeloid leukemia; MDS refers to myelodysplastic syndrome; CMML refers to chronic myelomonocytic leukemia

## CD47-Targeted Drug Development

**Deep understanding, scientific thinking, and sophisticated molecular designing will set the basis for differentiated CD47-targeted drug development**



## Challenges for CD47-Targeted Drug Development

- Feb 2022: Partial clinical holds on Magrolimab clinical trials
- Aug 2022: AbbVie discontinues clinical trial of anti-CD47 mAb
- Jan 2023: Arch Oncology gives up on CD47
- Jul 2023: Gilead discontinued Phase III study of magrolimab plus azacitidine in Higher-Risk MDS
- Feb 2024: Gilead discontinued Phase III study of magrolimab in AML

### FDA Puts Clinical Hold on Trials Assessing Magrolimab/Azacitidine Combo in AML/MDS

Feb 2, 2022  
Hayley Virgil



*Due to an imbalance of investigator-reported unexpected adverse reactions, the FDA placed a partial clinical hold on all trials examining the combination of magrolimab and azacitidine in acute myeloid leukemia and myelodysplastic syndrome.*

A partial clinical hold has been placed by the FDA on studies assessing the use of magrolimab and azacitidine in acute myeloid leukemia (AML) and myelodysplastic syndrome (MDS), according to a press release from developer Gilead Sciences.

The hold was implemented because of a notable imbalance of investigator-reported unexpected adverse reactions across different study arms. The partial hold is going into effect globally and will apply to any trials utilizing the combination until further data are gleaned, although no clear patterns in adverse reactions or novel safety signals have been observed.

### AbbVie to discontinue phase 1 trial for I-Mab's anti-CD47 therapy for treatment of cancers

Aug. 16, 2022 5:57 PM ET | I-Mab (IMAB) | ABBV | By: Anuron Mitra, SA News Editor | 3 Comments

narvik/iStock via Getty Images

Chinese biotech I-Mab (NASDAQ:IMAB) on Tuesday said its U.S. partner AbbVie (ABBV) would discontinue a phase 1b study evaluating a combination treatment including its anti-CD47 antibody therapy lemezoparlimab for two types of cancers.

### Scoop: Roche-backed startup gives up on CD47, lays off all employees



**Kyle LaHucik**  
Associate Editor

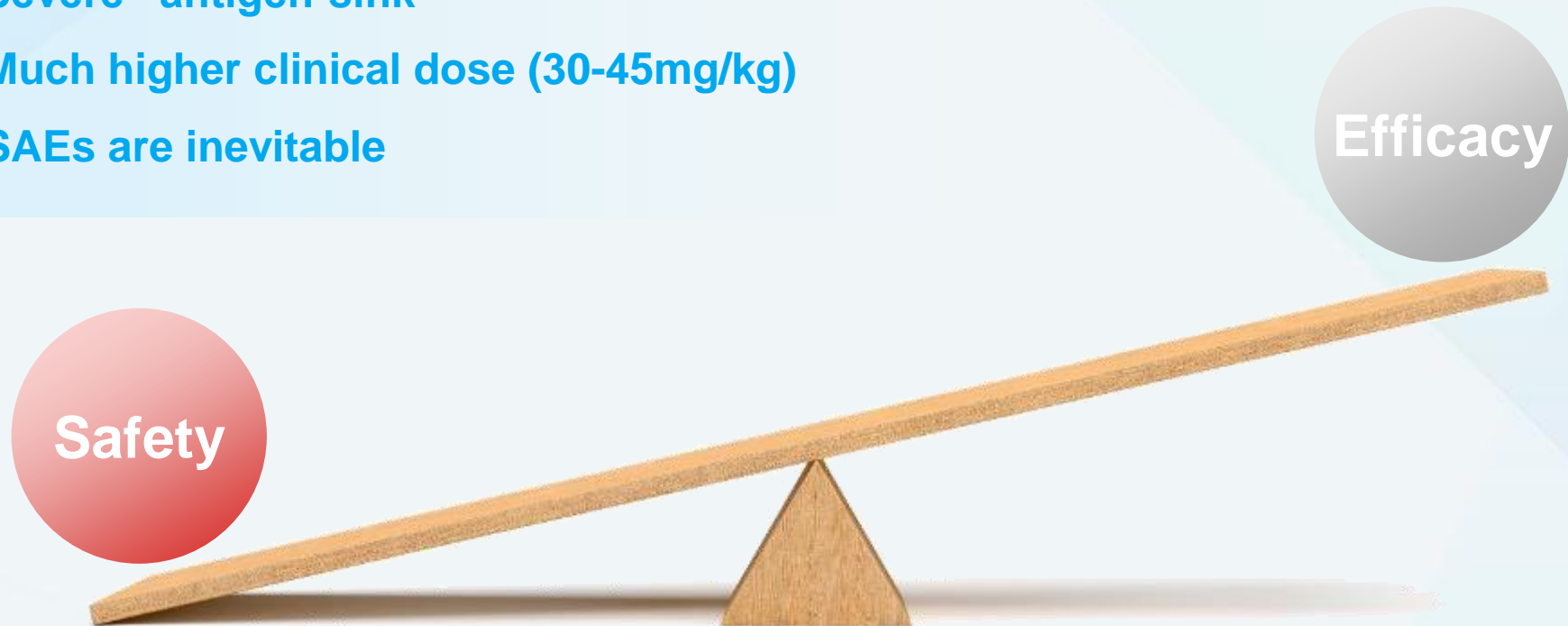
Arch Oncology ended its work on developing an anti-CD47 antibody and most employees have left the company, *Endpoints News* has learned.

The Brisbane, CA, and St. Louis biotech scrapped clinical development of the antibody, dubbed AO-176, according to an automatic reply email from a former clinical operations director.

## Challenges for CD47-Targeted Drug Development (cont'd)

### CD47 Antibody

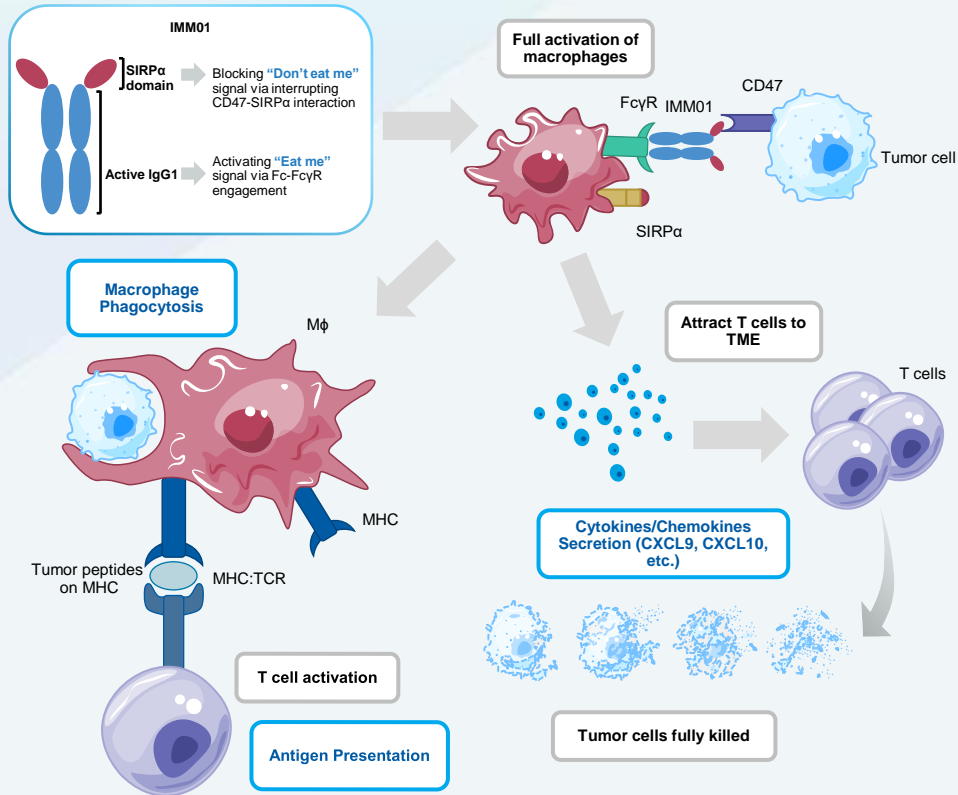
- Target affinity is too high
- Severe “antigen-sink”
- Much higher clinical dose (30-45mg/kg)
- SAEs are inevitable





# Our Differentiated Approaches

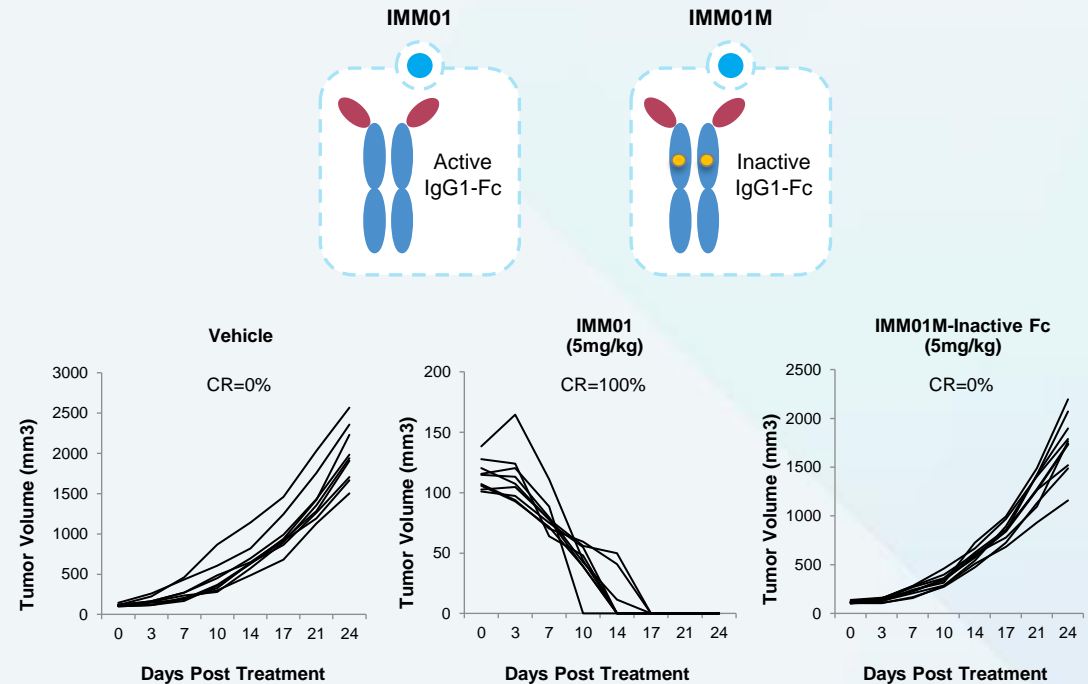
## Overview and Competitive Advantage of IMM01



Notes:  
MHC refers to major histocompatibility complex.

Source: Company Data

### In Vivo Efficacy of IMM01 is Dependent on Effective Fc Function (HL-60 xenograft model)



Notes: IMM01M has an engineered mutant inactive IgG1 Fc.

# Our Differentiated Approaches (cont'd)

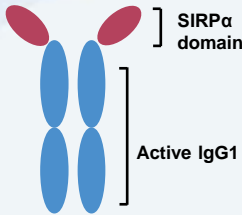
## Overview and Competitive Advantage of IMM01



### Overview



First SIRPα-Fc fusion protein to enter the clinical stage in China



Improved safety profile with engineered CD47-binding domain of human SIRPα to avoid human RBC binding



Designed to fully activate macrophages through a dual mechanism



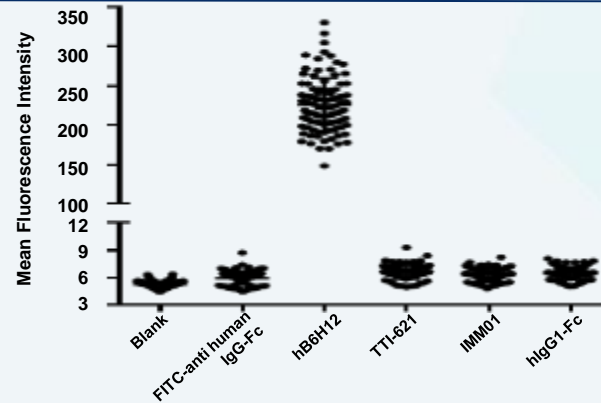
Encouraging single-agent efficacy at relatively low dose, with CR observed

Source: Company Data



### Competitive Advantage of IMM01 Monotherapy - Safety

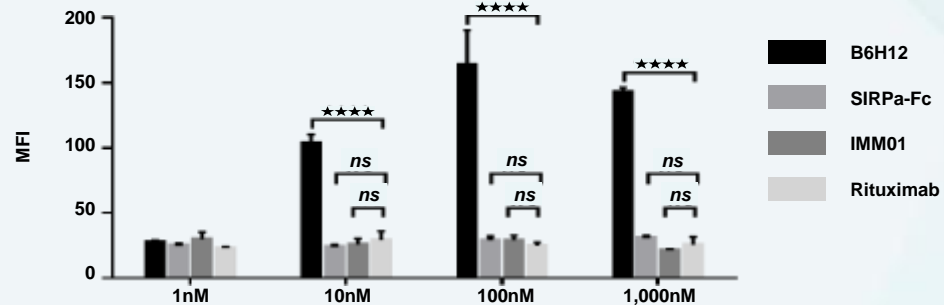
#### Human RBC Binding Analysis of IMM01



Donor Characteristics (n=100)  
Male (n=62)  
Female (n=38)  
Type A blood group (n=29)  
Type B blood group (n=31)  
Type AB blood group (n=10)  
Type O blood group (n=30)  
hB6H12: 500nM  
TTI-621: 5000nM  
IMM01: 5000nM  
hlgG1-Fc: 5000nM

Notes: B6H12 is a CD47-based antibody that serves as the control.

#### Phagocytosis Against Human RBC

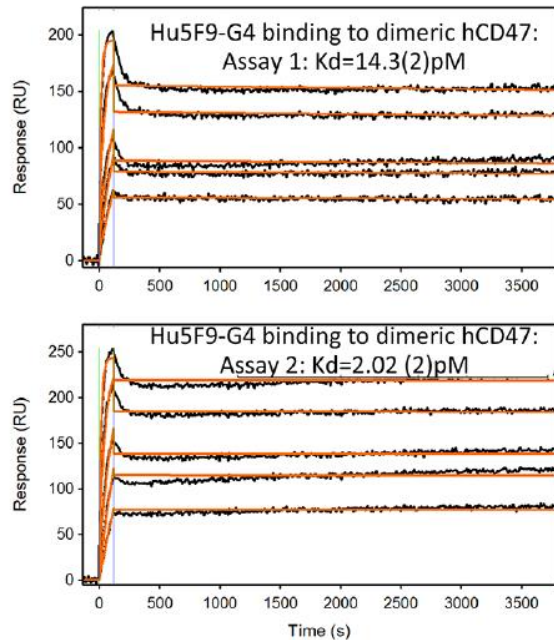


Notes: B6H12 is a CD47-based antibody that serves as the control.

# Our Differentiated Approaches (cont'd)

## Magrolimab Has Very High Target Affinity and RBC Binding Activity

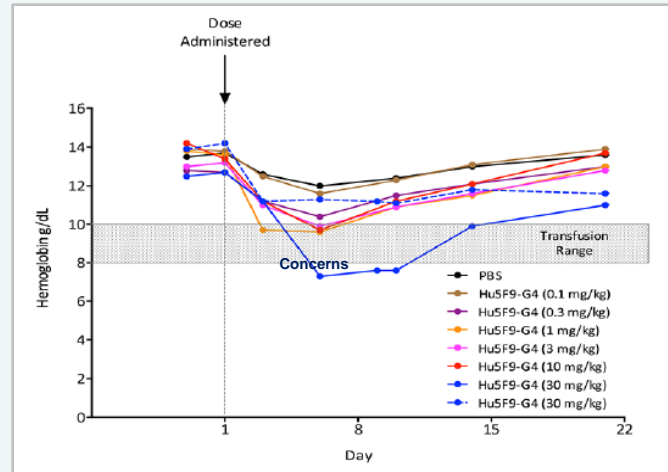
Target affinity assay



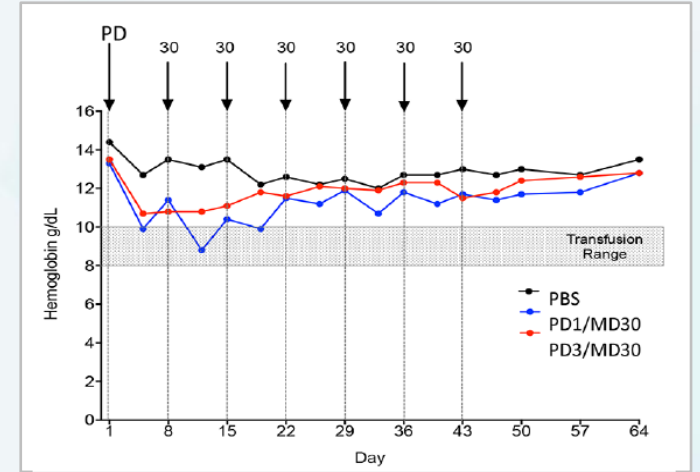
Magrolimab:  $KD = 2-14.3pM$

Timdarpcept (IMM01):  $KD = \sim 3nM$

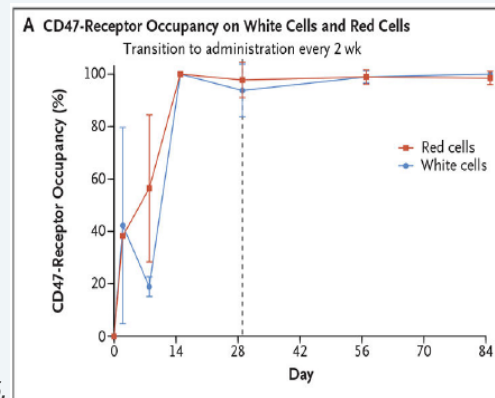
Without priming dose



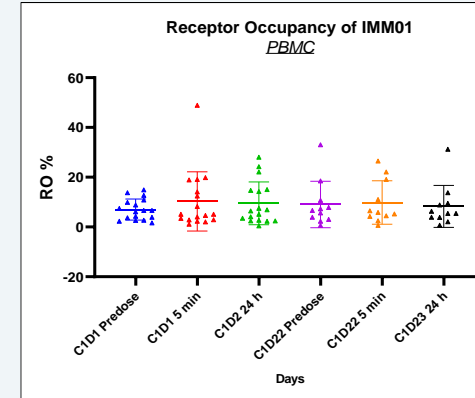
With priming dose (1mpk, 3mpk)



Magrolimab Receptor Occupancy (RO)



IMM01 Receptor Occupancy (RO)




### Concerns

- Bind to RBC, leading to hemolysis
- Too high target affinity, causing severe “antigen sink”
- High clinical dose is required due to the “antigen sink”
- High clinical dose will inevitably results in severe adverse event (SAE)

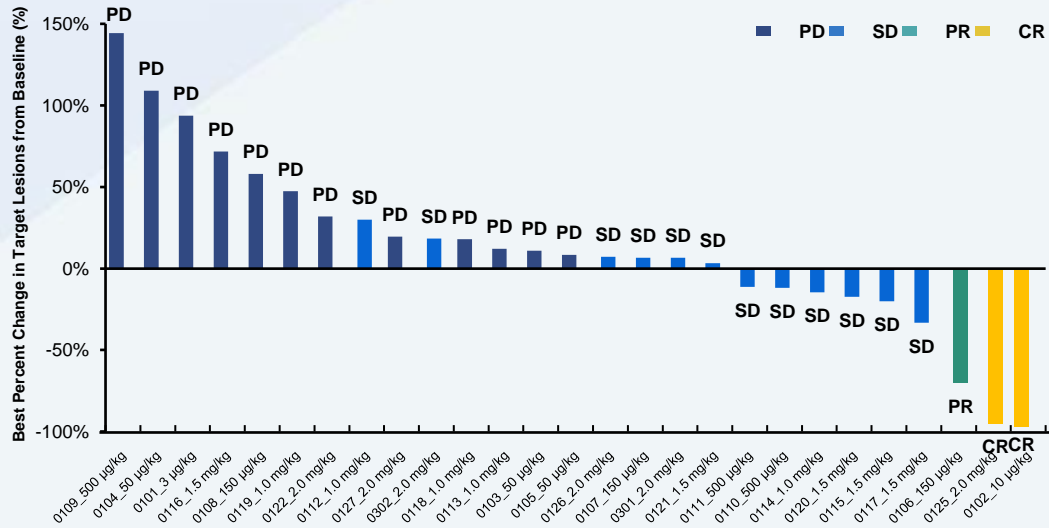
# Our Differentiated Approaches (cont'd)

## Phase I Clinical Trial Results of IMM01 Monotherapy

 One of the only two companies to have observed **CR** in monotherapy clinical trials with a **well tolerated safety profile**

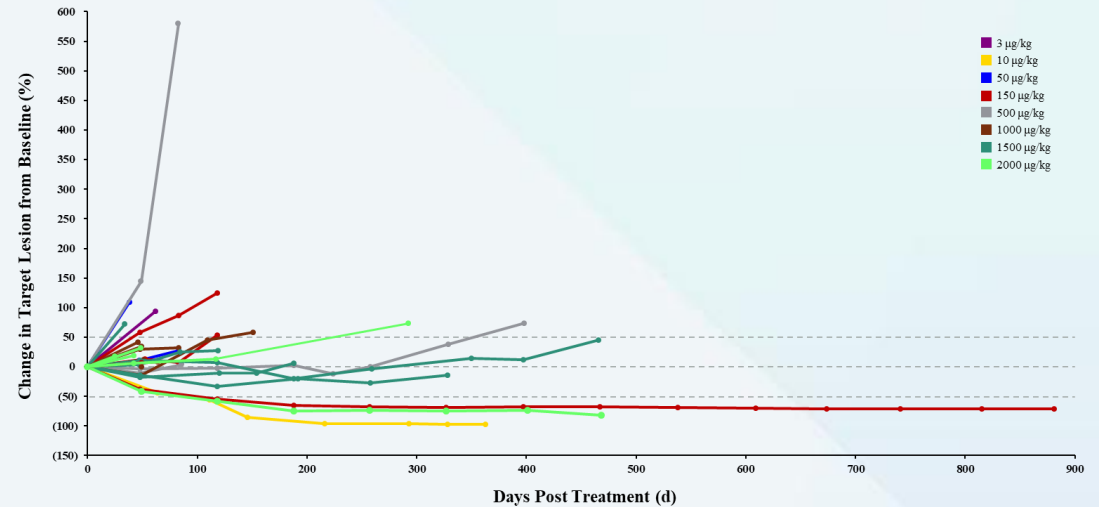
 **Potent Antitumor Activity and Encouraging Preliminary Clinical Efficacy**

Response Observed in Patients Treated with IMM01 Monotherapy



**Patients**  
**Note:** The colors of bars represent the best overall changes in size of target tumor lesions among 27 evaluable patients in the Phase I monotherapy study  
**Source:** Company Data, as of December 14, 2022

Duration of Response in Patients Treated with IMM01 Monotherapy



Among 27 evaluable patients receiving **0.003 mg/kg to 2.0 mg/kg** dosage, two patient reached complete response (**2 CRs**), one reached partial response (**1 PR**), and 13 reached stable disease (**13 SDs**) (including **six cases** with **observed substantial tumor shrinkage**)

# Our Differentiated Approaches (cont'd)

## Clinical Trial Results of IMM01 Monotherapy



### Safety Results



Majority of TRAE is **grade 1 and 2**



Grade 3 and above TRAE mainly include **Leukopenia, Thrombocytopenia, Anemia, Neutropenia**, with the highest rate of occurrence as **14% (4/29)**

Treatment-related adverse event (n=29)	ALL n (%)	≥Gr 3 n (%)
Positive of Anti erythrocyte antibody	17 (59)	
Leukopenia	16 (55)	2 (7)
Hemolysis	15 (52)	
Infusion related reaction	15 (52)	
Thrombocytopenia	13 (45)	3 (10)
Hypertriglyceridemia	13 (45)	
Anemia	13 (45)	4 (14)
Neutropenia	12 (41)	1 (3)
Neutrocytosis	12 (41)	
Alkaline phosphatase increased	8 (28)	
Leukocytosis	8 (28)	
Hyperbilirubinemia	7 (24)	
Hypercholesteremia	6 (21)	
Fever	5 (17)	
Proteinuria	5 (17)	
ALT increased	4 (14)	
GGT increased	3 (10)	
Hyperuricemia	3 (10)	
Hypothyroidism	3 (10)	
AST increased	4 (14)	

**Notes:**

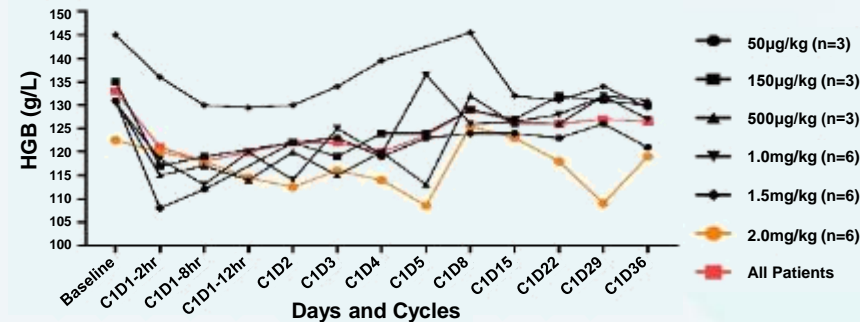
1. TRAE above 10% is presented
2. IMM01 is generally safe and well tolerated in 29 patients
3. Majority of TRAEs were grade 1 and 2
4. Grade 3 and above TRAEs mainly include Leukopenia, Thrombocytopenia, Anemia, Neutropenia, with the highest rate of occurrence as 14% (4/29)

Source: Company Data



The impact on hemoglobin or platelet is **transient and insignificant** following the administration of IMM01.

### HGB Changes Following Single-dose and Cycle 1 by Cohort

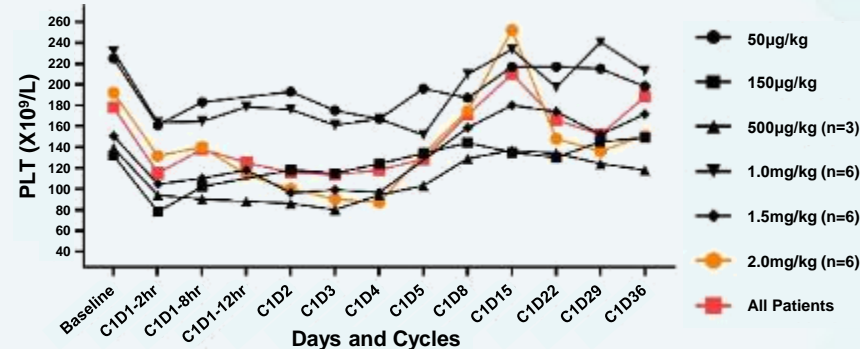


Note: Dosing days are C1D1, C1D8, C1D15, C1D22, C1D29, C1D36.



Although a transient decrease of hemoglobin was observed at 8 to 24 hours after the first dosing, it would generally get back to normal level between day 2 and 4.

### PLT Following Single-dose and Cycle 1 by Cohort



Note: Dosing days are C1D1, C1D8, C1D15, C1D22, C1D29, C1D36.


















Transient decrease in platelet was also observed at 2 hours after the first dosing, but it generally returned to normal level after 5 days.



# IMM01 - Competitive Landscape



One of the only two companies to have observed CR in monotherapy clinical trials with a well tolerated safety profile

Drug Name	Company	Molecule	Fc isotype	RBC binding	1 <sup>st</sup> in human	Monotherapy CR	Latest Stage
IMM01	ImmuneOnco 宜明昂科	 宜明昂科 ImmuneOnco	SIRPaFc	IgG1	No	2019.9	Yes Ph II
Hu5F9 (Magrolimab)	Forty-Seven (Gilead)	 FORTY SEVEN  GILEAD	mAb	IgG4	Yes	2014.8	No Ph III (Partial Suspension by the Company)
TTI-621	Trillium Therapeutics (Pfizer)	 TRILLIUM  Pfizer	SIRPaFc	IgG1	No	2016.1	Yes Ph II (Partial Suspension by the Company)
TTI-622			SIRPaFc	IgG4	No	2018.5	Yes Ph II
CC-90002	Celgene (BMS)	  Bristol Myers Squibb	mAb	IgG4	Yes	2015.2	No Ph I (Partial Suspension by the Company)
SRF231	Surface Oncology	 SURFACE ONCOLOGY	mAb	IgG4	Yes	2018.4	No Ph I (Suspension by the Company)
ALX-148 (Evorpacept)	ALX Oncology	 ALX ONCOLOGY	SIRPaFc	IgG1 Fc(Inert)	Yes	2017.1	No Ph II/III
SHR1603	HengRui 恒瑞	 HENGRUI	mAb	IgG4	Yes	2018.10	No Ph I (Suspension by the Company)
AO-176	Arch Oncology	 arch oncology	mAb	IgG2	Minimal	2019.2	No Ph I/II (Suspension by the Company)
IBI188 (Letaplimab)	Innovent 信达生物	 innovent 信达生物制药	mAb	IgG4	Yes	2018.11	No Ph Ib/III (Partial Suspension by the Company)
TJC4 (Lemzoparlimab)	I-Mab 天境生物/ AbbVie	 I-MAB  abbvie	mAb	IgG4	Minimal	2019.5	No Ph III (Partial Suspension by the Company)
AK117	Akesobio 康方生物	 Akesobio	mAb	IgG4	Minimal	2020.4	No Ph II

**Notes:**

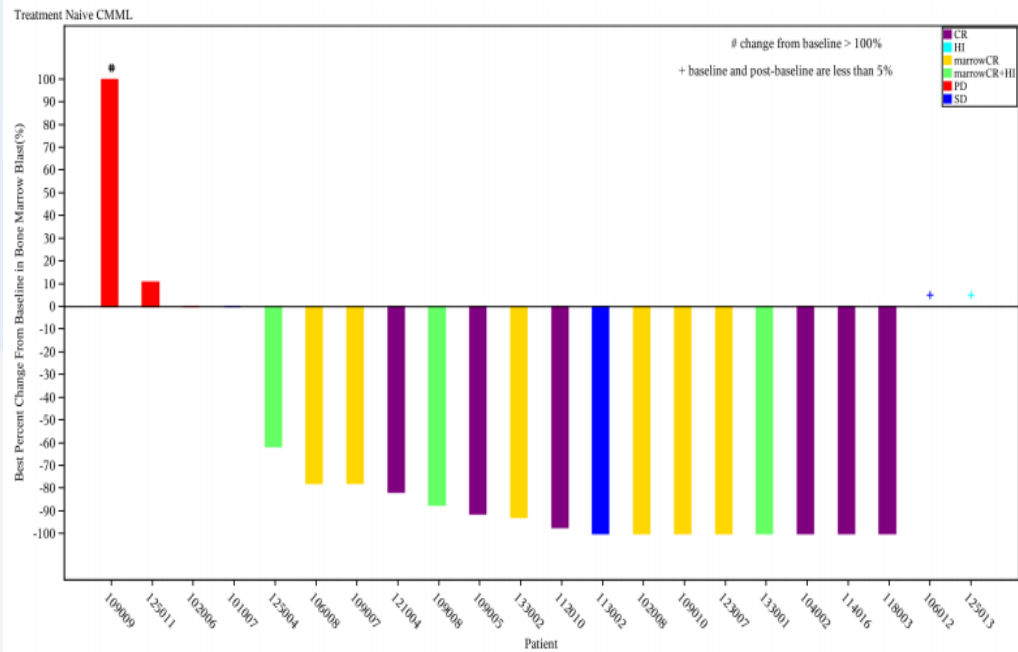
1. Clinical data are extracted from official websites of relevant companies, reported clinical trials and published literature
2. Despite a comparison is made here, the key results are not from head-to-head studies
3. "1st in human" refers to the first posted date of the first clinical trial
4. The stage listed here is the latest clinical trial of the drug
5. Partial suspension means not all clinical trials of this drug are suspended, such as monotherapy of CC-90002 which has been suspended but its combination therapy with rituximab has completed
6. For the drugs associated with two companies, the company in the parenthesis is the acquirer
7. The FDA has lifted all of the partial clinical hold placed on several trials evaluating magrolimab, as it determined that, following a comprehensive review of the safety data from each trial, the clinical sponsor had satisfactorily addressed the deficiencies
8. As to the monotherapy CR column, "No" means that no CR was achieved in a completed or suspended clinical trial
9. The clinical trials of drug candidates marked as dark-gray have been suspended

Source: Frost & Sullivan, Official Websites of Relevant Companies

# IMM01 + Azacitidine in 1L CMML

## Phase II

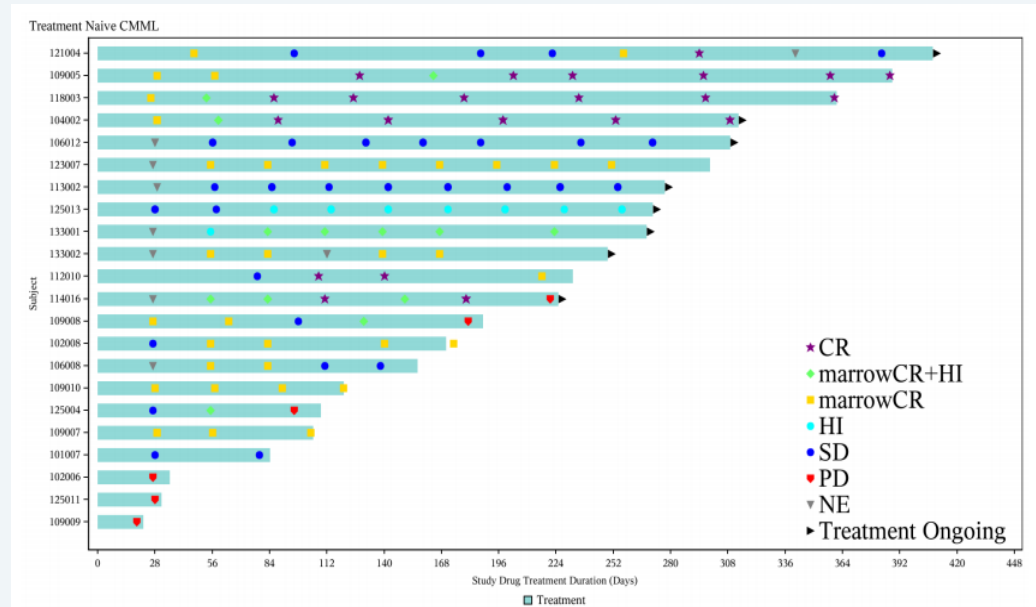
### Best Percent Change from Baseline in the Blast Cells in the Bone Marrow



**Notes:** ORR = Overall Response Rate, CR = Complete Response, mCR = Marrow Complete Response, HI = Hematological Improvement

**Source:** Company Data; The clinical data is as of December 31<sup>st</sup>, 2023

### Duration of Treatment and Response

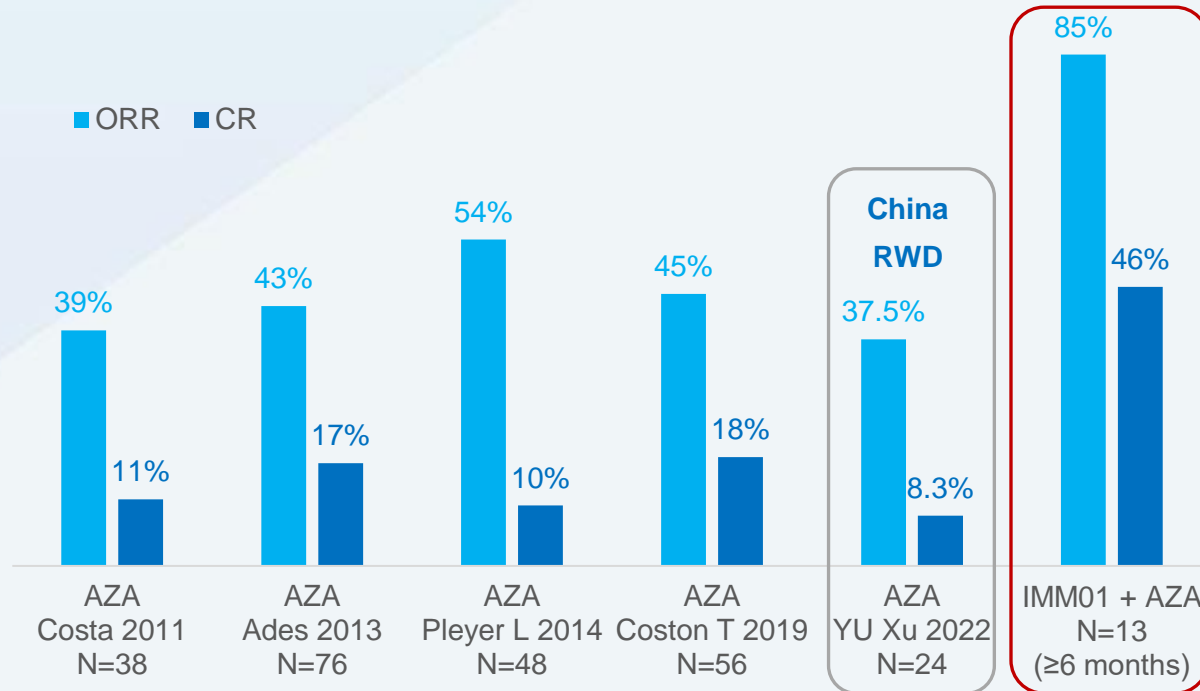


Best Overall Response, n (%)	1L CMML (N=22)	≥4 months (N=16)	≥6 months (N=13)
<b>ORR</b>	<b>16 (72.7%)</b>	<b>14 (87.5%)</b>	<b>11 (84.6%)</b>
<b>CR</b>	<b>6 (27.3%)</b>	<b>6 (37.5%)</b>	<b>6 (46.2%)</b>
mCR + HI	3 (13.6%)	2 (12.5%)	2 (15.4%)
mCR alone	6 (27.3%)	5 (31.3%)	2 (15.4%)
HI	1 (4.5%)	1 (6.3%)	1 (7.7%)

## IMM01 + Azacitidine in 1L CMML (cont'd)

### Comparison in Treating 1L CMML

#### Response of Major Clinical Studies in CMML



- As indicated by the graph, the ORR and CR rates range from 37% to 54% and 8% to 18% respectively in major clinical trials of azacitidine in CMML based on historical data.
- Particularly, real-world data on efficacy and safety of azacitidine therapy in 24 patients with CMML from a multicenter, retrospective study in **China** published in July 2022 **showed an ORR of 37.5% with a CR rate and a mCR/HI rate of 8.3% and 20.8%, respectively**. In contrast, in our Phase II trial for the combination of IMM01 and azacitidine, among the 13 evaluable patients (≥6 months) with 1L CMML, six reached complete response (**6 CRs**), four reached marrow complete response with two hematological improvement (**2 mCRs + HI and 2 mCRs alone**), and one reached hematological improvement alone (**1 HI alone**), **resulting in an ORR of 84.6% and a CR rate of 46.2%**.

#### Notes:

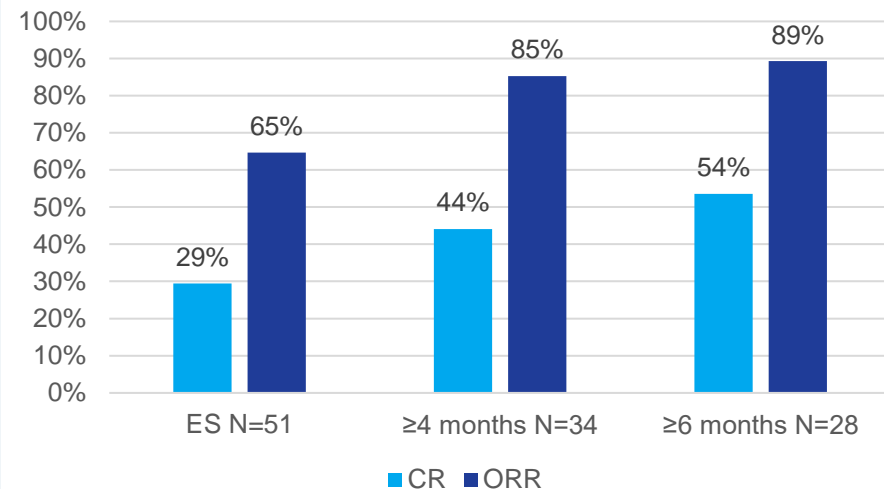
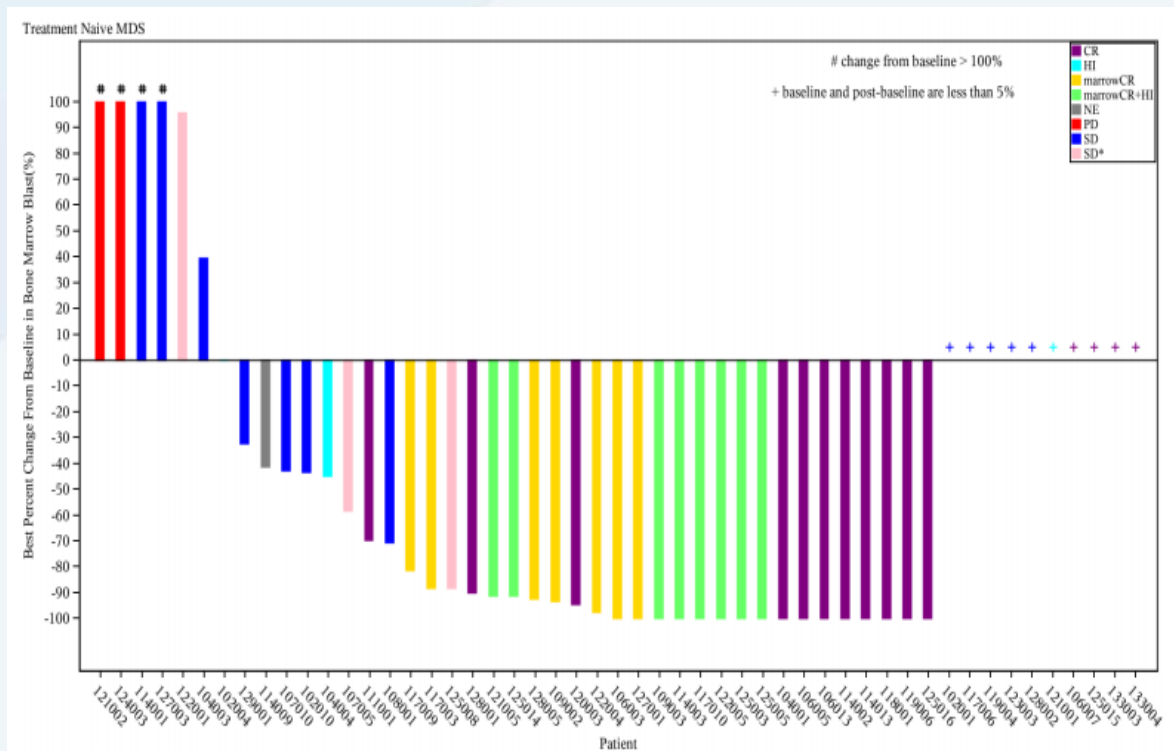
- ORR refers to overall response rate; CR refers to complete response.
- There were no head-to-head comparison clinical trials conducted between these drugs. The results of clinical trials of a drug cannot be directly compared to that of another drug and may not be representative of the overall data.

Source: Literature Review; Company Data, the clinical data is as of December 31<sup>st</sup>, 2023

# IMM01 + Azacitidine in 1L MDS

## Phase II

### Best Percentage Change from Baseline in the Blast Cells in the Bone Marrow (%)

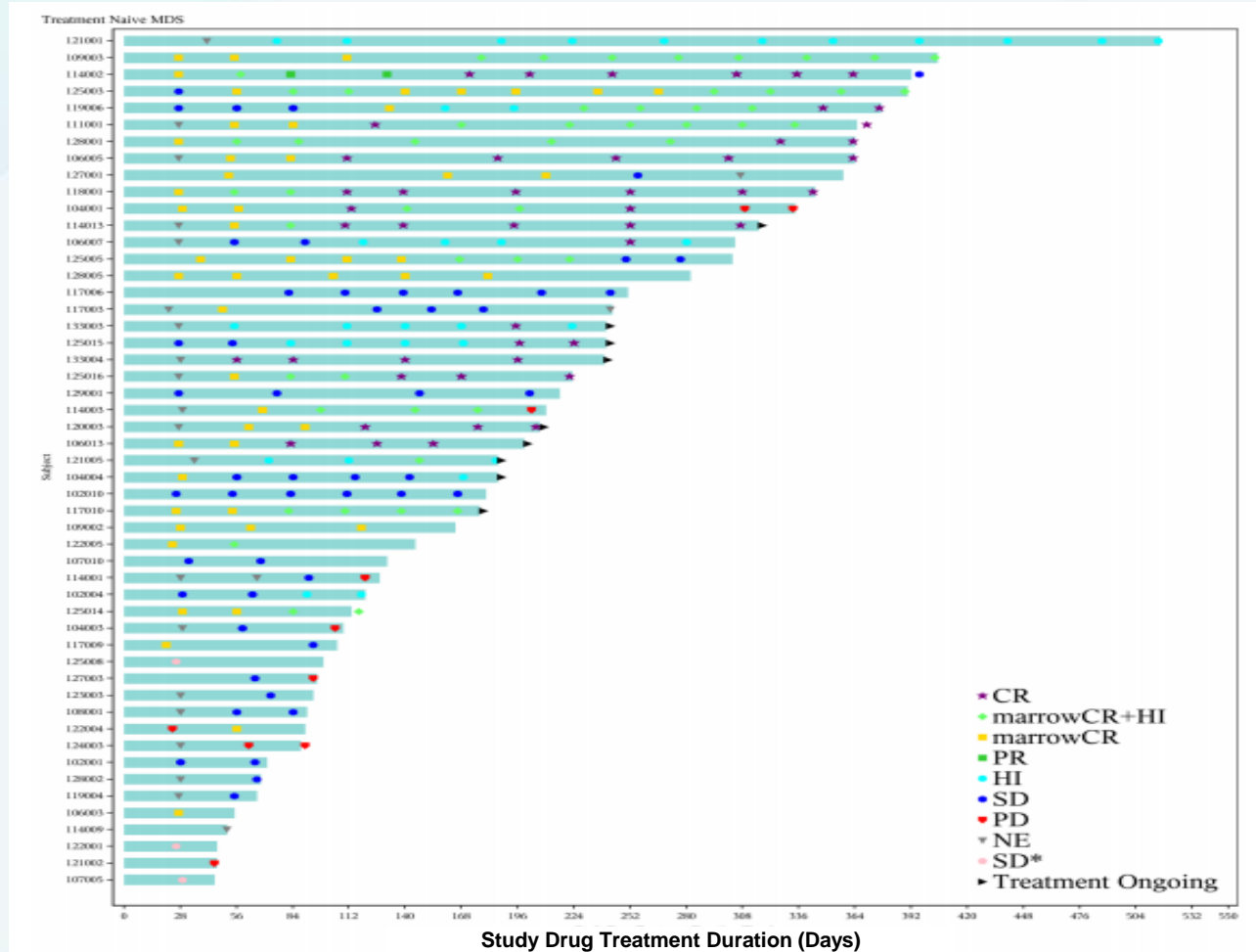


Best Overall Response n (%)	1L MDS (N=51)	≥4 months (N=34)	≥6 months (N=28)
<b>ORR</b>	<b>33 (64.7%)</b>	<b>29 (85.3%)</b>	<b>25 (89.3%)</b>
<b>DCR</b>	<b>45 (88.2%)</b>	<b>34 (100%)</b>	<b>28 (100%)</b>
<b>CR</b>	<b>15 (29.4%)</b>	<b>15 (44.1%)</b>	<b>15 (53.6%)</b>
mCR+HI	8 (15.7%)	7 (20.6%)	5 (17.9%)
mCR alone	7 (13.7%)	4 (11.8%)	3 (10.7%)
HI	3 (5.9%)	3 (8.8%)	2 (7.1%)
SD	12 (23.5%)	5 (14.7%)	3 (10.7%)

# IMM01 + Azacitidine in 1L MDS (cont'd)

## Phase II

### Duration of Treatment and Response



# IMM01 + Azacitidine

## Comparison: Safety results

### Magrolimab + AZA vs AZA alone

TRAE	MDS Ib Magrolimab + AZA (N=95)		AZA-001 MRCT AZA alone (N=175)	
	All grades, N(%)	≥Grade 3, N(%)	All grades, N(%)	≥Grade 3, N(%)
Anemia	49 (51.6%)	<b>45 (47.4%)</b>	90 (51.4%)	<b>24 (13.7%)</b>
Leukopenia	<b>28 (29.5%)</b>	<b>28 (29.5%)</b>	<b>32 (18.2%)</b>	<b>26 (14.9%)</b>
Neutropenia	45 (47.4%)	44 (46.3%)	115 (65.7%)	107 (61.1%)
Febrile neutropenia	<b>29 (30.5%)</b>	<b>27 (28.4%)</b>	<b>24 (13.7%)</b>	<b>22 (12.6%)</b>
Thrombocytopenia	52 (54.7%)	44 (46.3%)	122 (69.7%)	102 (58.3%)

Compared to the trial of AZA alone, **significant higher rates of occurrence of some TRAEs** (such as anemia, leukopenia and febrile neutropenia) were observed in the clinical trial for the combination of Magrolimab and AZA.

### IMM01 + AZA vs AZA alone

TRAE	IMM01-02 Study – MDS Cohort IMM01 + AZA (N=57)		China MDS-002 Single-arm Study AZA alone (N=72)	
	All grades, N(%)	≥Grade 3, N(%)	All grades, N(%)	≥Grade 3, N(%)
Anemia	27 (47.4%)	25 (43.9%)	38 (52.8%)	35 (48.6%)
Neutropenia	38 (66.7%)	38 (66.7%)	48 (66.7%)	48 (66.7%)
Thrombocytopenia	41 (71.9%)	38 (66.7%)	52 (72.2%)	50 (69.4%)

Compared to the trial of AZA alone, **similar rates of occurrence of TRAEs** were observed in our phase II trial for the combination of IMM01 and AZA.



# IMM01 + Tislelizumab (PD-1 mAb)

## Preclinical Results and Clinical Development Plan

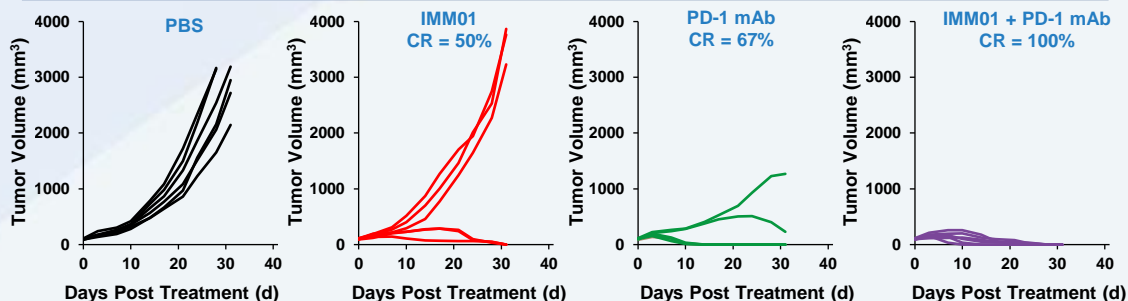


### Combination with a PD-1/PD-L1 Antibody

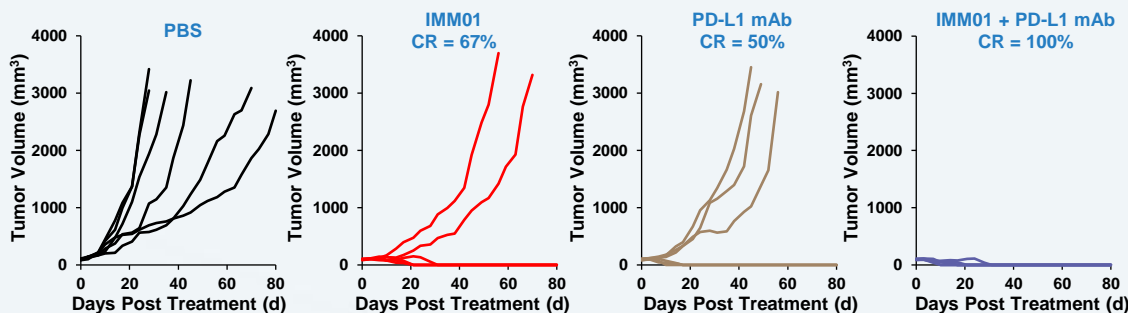


The combination of IMM01 with either a PD-1 or PD-L1 antibody exhibited **encouraging synergistic effects** in our *in vivo* solid tumor efficacy models

### Efficacy Study of IMM01 and a PD-1 Antibody in Colon Cancer (CT26) Syngeneic Mouse Model



### Efficacy Study of IMM01 and a PD-L1 Antibody in Colon Cancer (CT26) Syngeneic Mouse Model



Notes: 1. Six mice per group were used in this study; 2. The colors of lines represent different groups using different drugs and/or drug candidates  
 Source: Company Data



### Clinical Development Plan

Program	Indications	Clinical trial stage (status)	Trial site	First-patient-in date
IMM01 + tislelizumab	NSCLC, SCLC, HNSCC, other solid tumors, cHL <sup>(1)</sup>	Phase Ib (completed) Phase II (ongoing)	China	May 2022

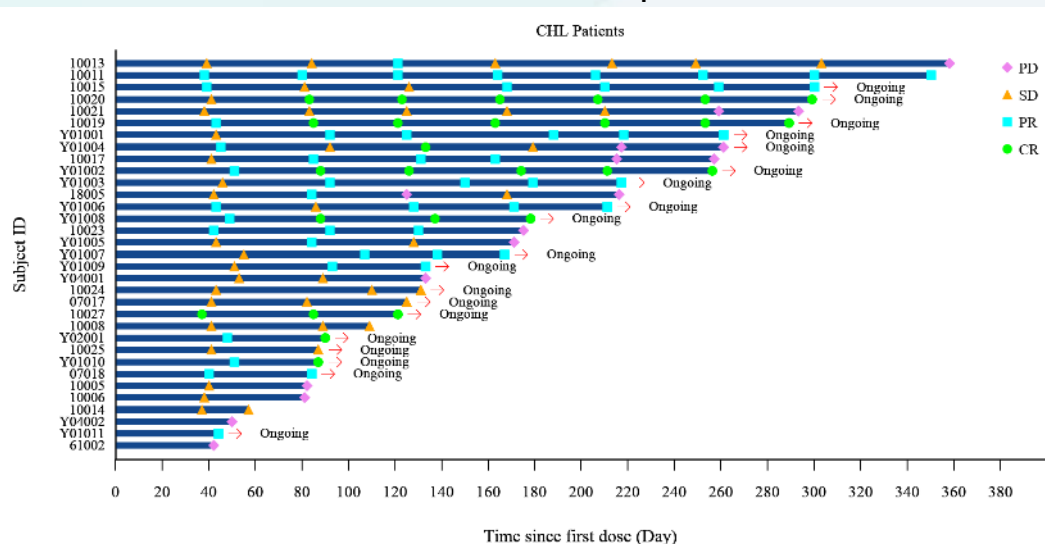
#### Notes:

We are evaluating this combination therapy in cHL patients who relapsed or progressed after the treatment of PD-1 inhibitors which may allow us to **pursue an accelerated marketing approval** leveraging the results of relatively small sample size studies

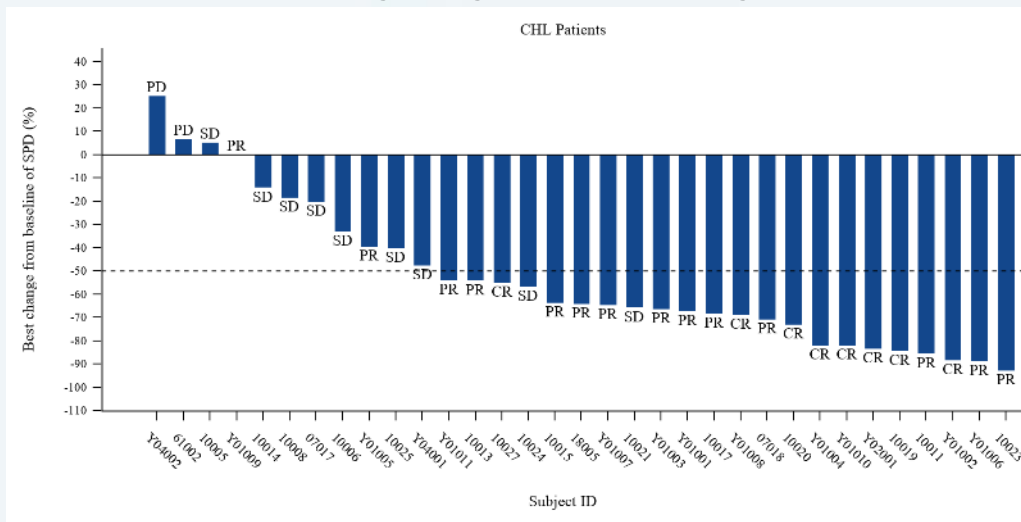
# IMM01 + Tislelizumab (PD-1 mAb) (cont'd)

## Phase II Efficacy in Prior Anti-PD-1 R/R cHL

Duration of Treatment and Response



Best Percentage Change from Baseline in Target Lesion



### Remarkable anti-tumor efficacy

- Of 33 response-evaluable patients as of March 1, 2024, best overall responses were **8 CR, 14 PR and 9 SD**, resulting in an **ORR of 66.7% and DCR of 93.9%**.

Best Overall Response n (%)	R/R cHL (N=33)
ORR	<b>22 (66.7)</b>
DCR	<b>31 (93.9)</b>
CR	<b>8 (24.2)</b>
PR	<b>14 (42.4)</b>
SD	9 (27.3)
PD	2 (6.1)

Source: Company Data; The clinical data is as of March 1<sup>st</sup>, 2024

## IMM01 + Tislelizumab (PD-1 mAb) (cont'd)

### Phase II: Superior Efficacy in PD-1 Failed R/R cHL

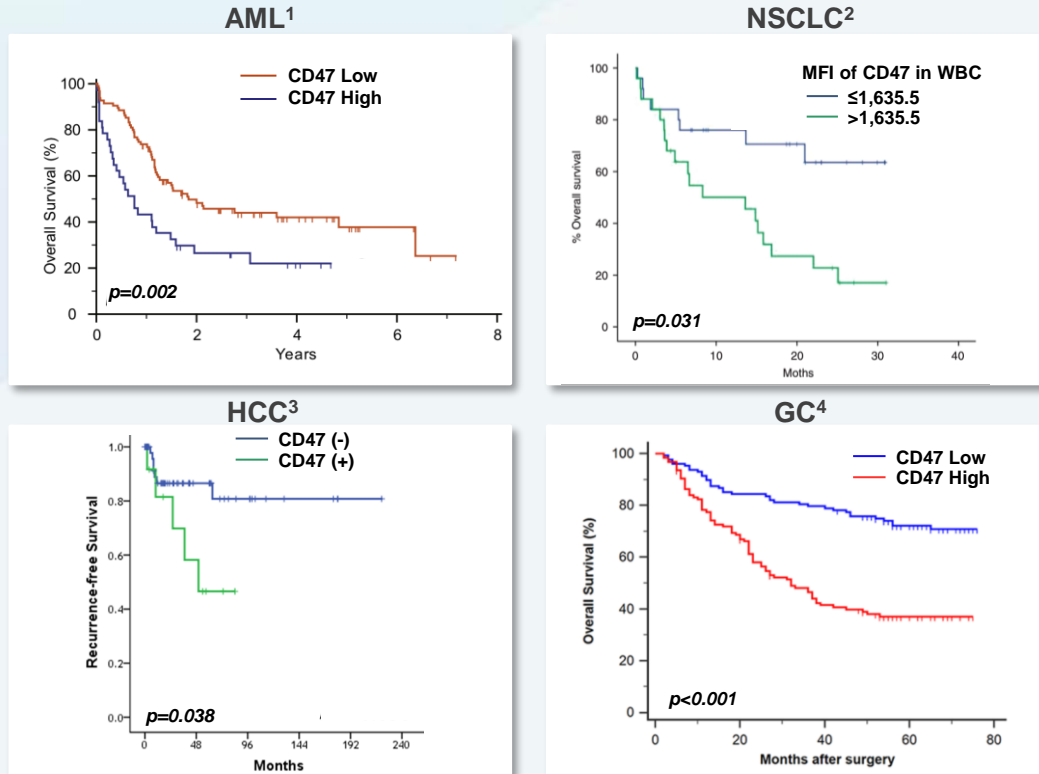
	Timdarpcept (SIRP $\alpha$ -Fc) + Tislelizumab (PD-1)	Favezelimab (Anti-LAG-3) + Pembrolizumab <sup>1</sup>	Tifcemalimab (Anti-BTLA) + Toripalimab (PD-1) <sup>2</sup>
<b>N</b>	33	34	34
<b>ORR</b>	66.7%	29%	35.3%
<b>CR</b>	24.2%	9%	0%
<b>Status</b>	Phase III expected To initiated in Q1 2024	Phase III of the coformulated two drugs started in Oct 2022	Phase III started in Dec 2023 to treat R/R cHL
<b>Study Geography</b>	China	China + International	China

**Source:**

1. Timmerman et al. Blood (2022) 140 (Supplement 1): 768–770.
  2. Song et al. Blood (2023) 142 (Supplement 1): 4458. Hodgkin Lymphoma. Histopathologically, 95% of HL cases are classified as cHL." Momotow et al. J. Clin. Med. 2021, 10(5), 1125
- Company Data; The clinical data is as of March 1st, 2024

# IMM01 - Market Opportunities

## Increased CD47 Expression is Correlated with Poor Clinical Outcomes for Various Cancers



**Note:** Diagram HCC illustrates the recurrence survival of patients post surgical resection without any adjuvant therapy

**Source:**

1. Majeti et al. Cell 138, 286–299, July 24, 2009
2. Barrera et al. Br J Cancer 117, 385–397 (2017)
3. Kim H, et al. J Clin Pathol 2020;0:1–5
4. Shi et al. Cancer Immunol Immunother 70, 1831–1840 (2021)

## Strong Potentials of CD47-based Therapies

- ✓ CD47 is overexpressed on the surface of numerous tumor cells, including **NSCLC, SCLC, BC, GC, CRC, HNSCC, HCC, ESCC, BTC, OC, lymphoma, AML, MDS, CMML, MM** and highly correlated with **poor prognosis**
- ✓ Therapeutic potential of CD47-targeted agents have been **validated** by accumulating clinical data in treating **both hematologic and solid tumors**, such as **non-Hodgkin lymphoma (NHL), AML, MDS, SCLC, HNSCC, OC and GC**
- ✓ **Unique MoA** of IMM01 could **present strong synergy with PD-1/PD-L1 inhibitors** and **enhance the response rates** of solid tumors to PD-1/PD-L1 treatments

## Developing In-house and Own IP and Commercial Rights



1 issued patent in China, 1 issued patent in Japan, 1 issued patent in the U.S.

1 issued European patent (validated in the ES, CH, DE, FR, GB, IT)

Other patent applications are pending

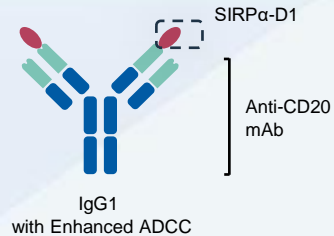
# IMM0306 (CD47×CD20)

1<sup>st</sup> CD47 and CD20 Dual-targeting Bispecific to Enter into the Clinical Stage Globally



## Overview

### IMM0306 Molecule Structure



Full macrophage activation

Improved ADCP and ADCC activity

Improved effectiveness for treating patients predominantly expressing FcγRIIIA-158F polymorphism that is less sensitive to CD20 antibody treatment

## Market Opportunities and Competition



### Unmet needs of R/R B-NHL treatment:

- ✓ CD20 antibody combined with chemotherapy are recommended for 1L & later line treatment
- ✓ However, **approximately 50% of B-NHL patients will eventually relapse**



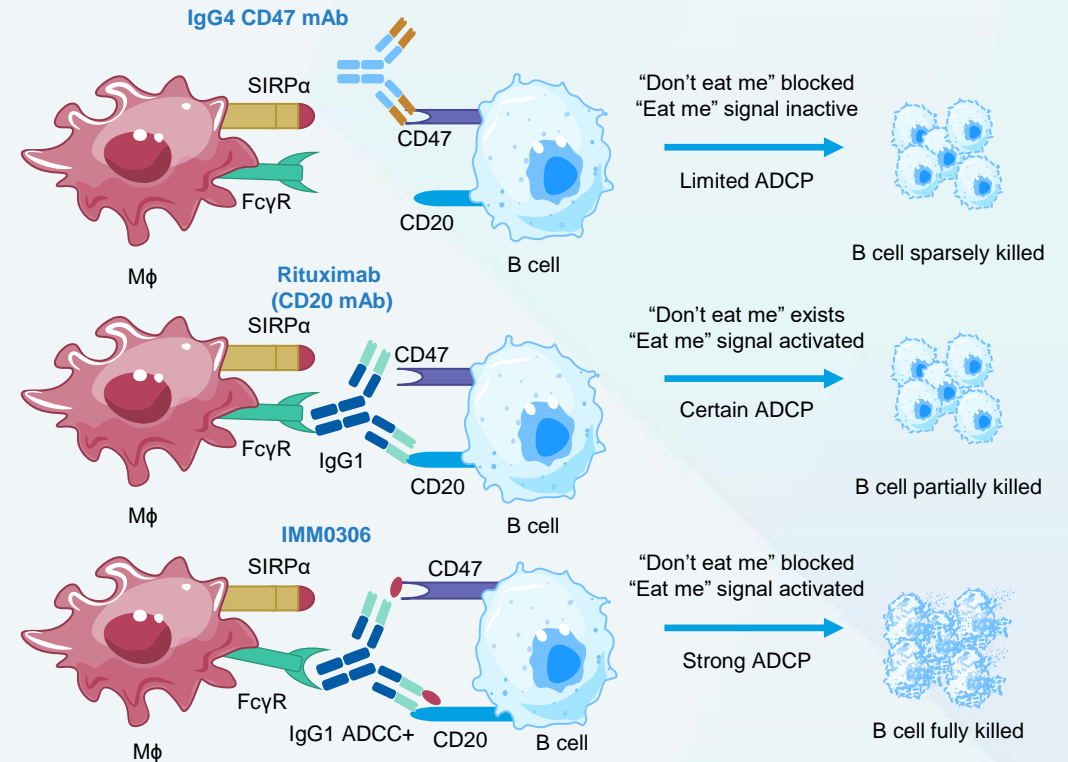
2 **CD47×CD20** bispecific antibodies/fusion proteins under development globally  
Among them, IMM0306 is the **1<sup>st</sup>** to enter into a clinical trial



Have great potential in addressing the **unmet needs of R/R B-NHL treatment**



## Mechanism of Action



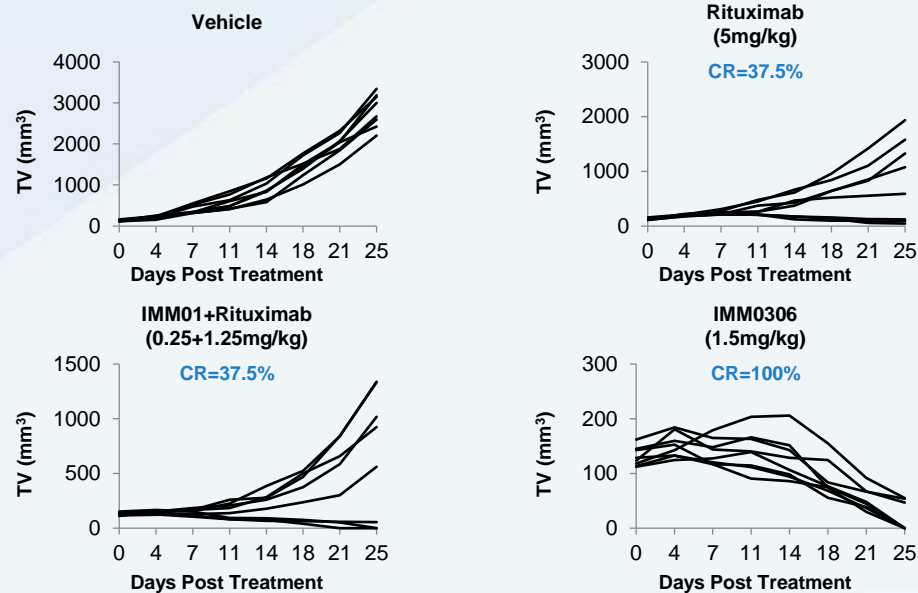
# IMM0306 (CD47×CD20) (cont'd)

## Preclinical Results

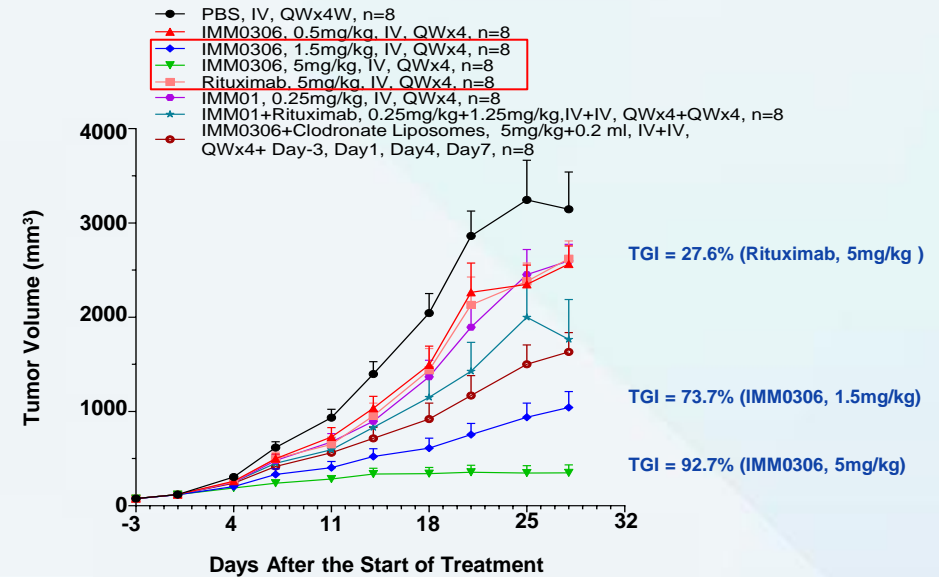


### In Vivo Efficacy Study

#### Efficacy Study in Lymphoma (Daudi) Xenograft Mouse Model



#### Efficacy Study in Lymphoma (Raji) Xenograft Mouse Model



- IMM0306 was more potent than **rituximab (CD20 mAb) monotherapy**, even at a much lower dosing level, and it is more potent than the **combination therapy of IMM01 and rituximab** at a comparable dosing level



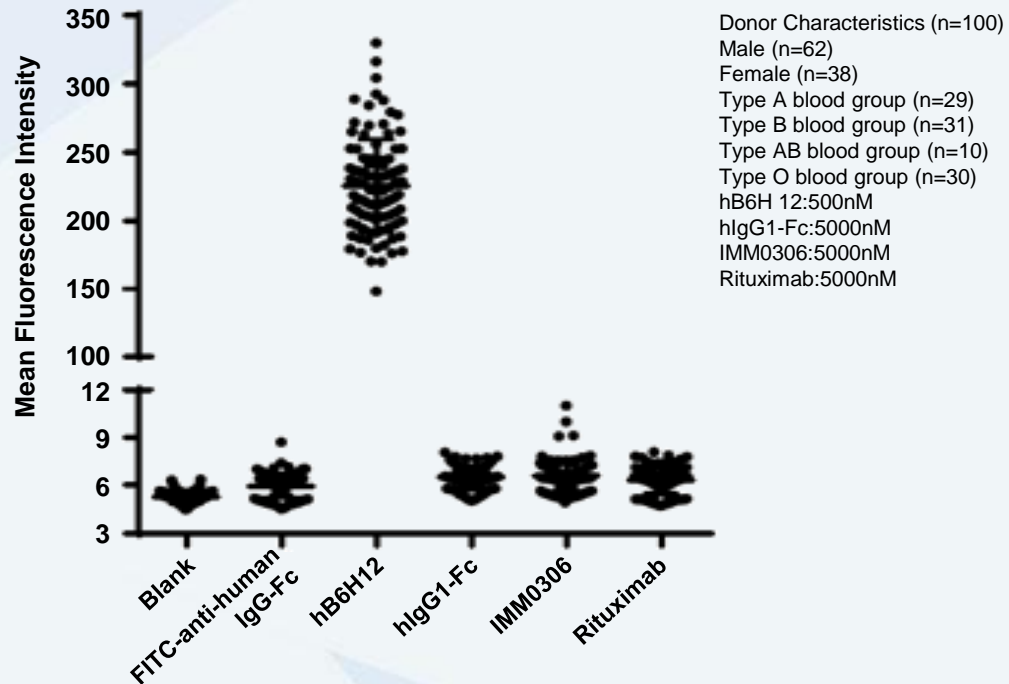
# IMM0306 (CD47×CD20) (cont'd)

## Preclinical Results



Favorable Safety Profile with No Human Red Blood Cell Binding *In Vitro*, with Only Minor Cytokine Storm

### Human RBC Binding Analysis of IMM0306



Does not bind to RBCs in *in vitro* preclinical studies or cause hemagglutination or hemolysis in clinical trials



With the higher affinity for CD20 to minimize “on-target, off-tumor” toxicity

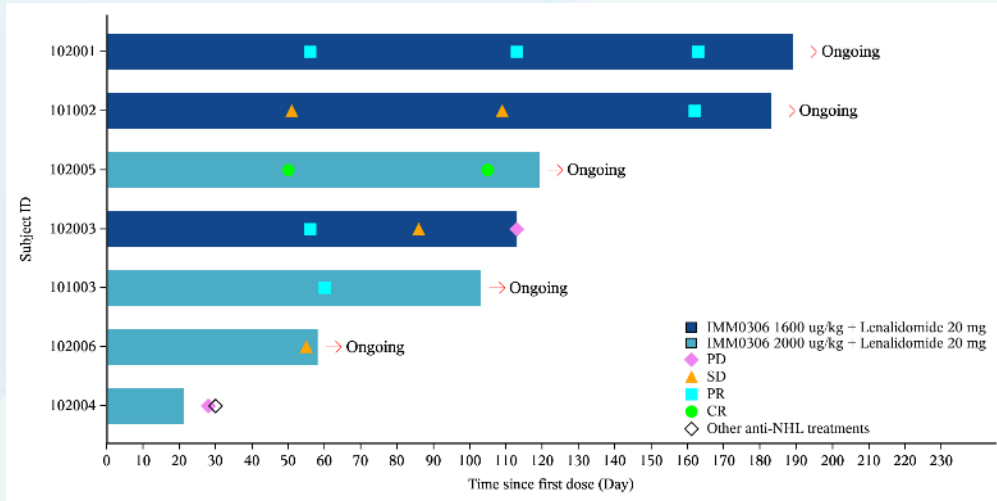


Only triggers minor CRS

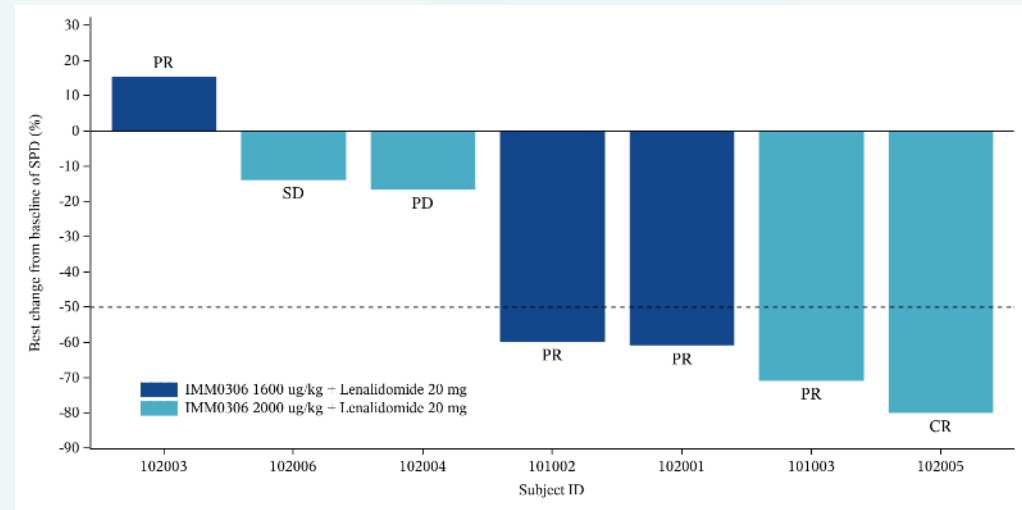
# IMM0306 + Lenalidomide (CD47×CD20) (cont'd)

## 1<sup>st</sup> CD47 and CD20 Dual-targeting Bispecific to Enter the Clinical Stage Globally

Duration of Treatment and Response



Best Percentage Change from Baseline in Target Lesion



### Developing In-house and Own its IP and Commercial Rights



**5** issued patents in China, Japan, Europe (validated in the ES, CH, DE, FR, GB, IT) and the U.S.

Other patent applications are pending

Best Overall Response n (%)	Efficacy Evaluable (N=7)
CR	1 (14.3)
PR	4 (57.1)
SD	1 (14.3)
PD	1 (14.3)
ORR	5 (71.4)
DCR	6 (85.7)

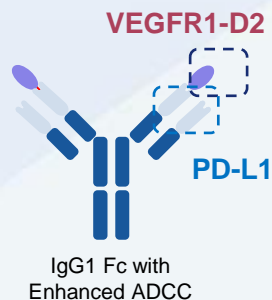
Of 7 response-evaluable patients as of Jan 5, 2024, **The ORR and DCR were 71.4% and 85.7%, respectively.**

# IMM2510 (VEGF × PD-L1)

## A bsAb with the mAb-Trap Structure Targeting VEGF and PD-L1

### IMM2510 - Target Introduction and Molecule Structure

#### IMM2510 Molecule Structure



#### PD-L1

Tumor cells expressing PD-L1 can **bind to PD-1** on the surface of T cells to evade T-cell attacks



#### VEGF

A dynamic angiogenic factor that is up-regulated in many tumor indications, which contributes to **angiogenesis** and tumor growth



#### Synergistic effect validated by approved anti-PD-(L)1 and anti-VEGF combo

	 PD-L1	 VEGF	 PD-(L)1 Combo <sup>1</sup>
Molecule	  		
IL Treatment	UC, SCLC, NSCLC	CRC, NSCLC	RCC, HCC, NSCLC
Others	NSCLC, HNSCC, Melanoma HCC, RCC, UC, HL	GBM, CRC, NSCLC, RCC, OC, CC	EAC, CC

#### Notes:

1. Approved anti-PD-1/PD-L1 and anti-VEGF combination therapies

### IMM2510 - Mechanism of Action

#### By connecting VEGF and PD-L1, IMM2510 can



Block the PD-(L)1 pathway and thus **activate T cells**, which has demonstrated robust antitumor activities in a broad range of solid tumors



Reduce VEGF-mediated tumor **angiogenesis** and inhibit immune **suppression**, thus promoting the activation of T-cell immune responses



Exert **synergistic antitumor activities** than the combination of a VEGF blocker and a PD-L1 antibody



Further activate NK cells and macrophages through strengthened Fc-mediated ADCC/ADCP activities to promote innate and subsequent adaptive immune responses

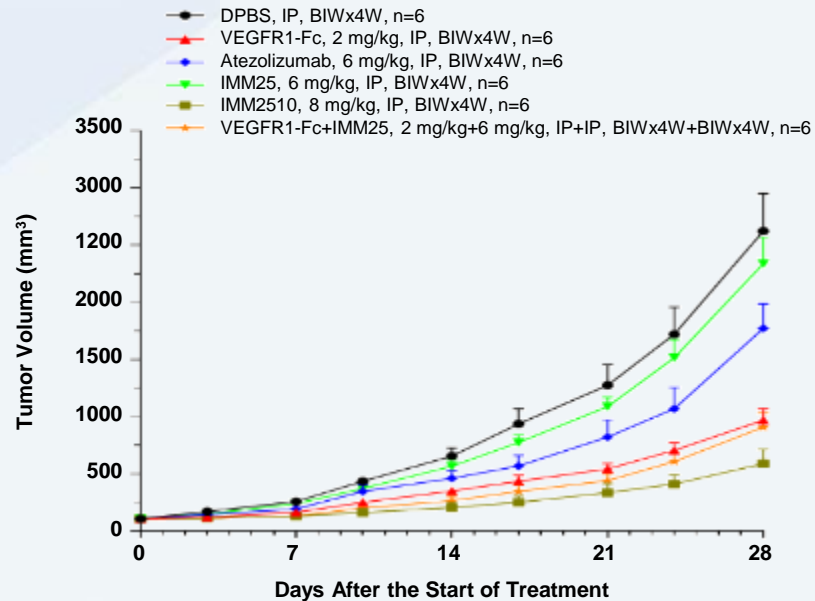
# IMM2510 (VEGF × PD-L1) (cont'd)

## Competitive Advantages

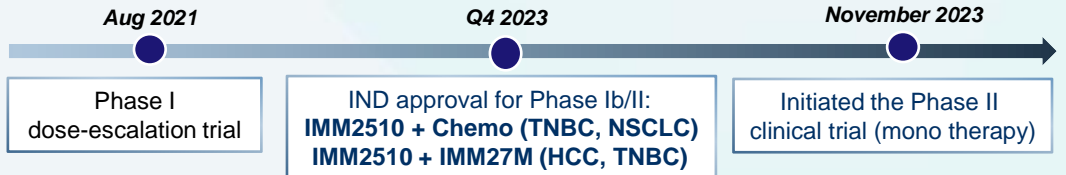


Potent In Vivo Efficacy Compared to the VEGF Or PD-L1 Antibodies used as a Single Agent or in Combination

### Efficacy Study in Breast Cancer (MDA-MB-231-Luc) Xenograft Mouse Model



### Clinical Development Plan



### Developing One Owned Patent Family

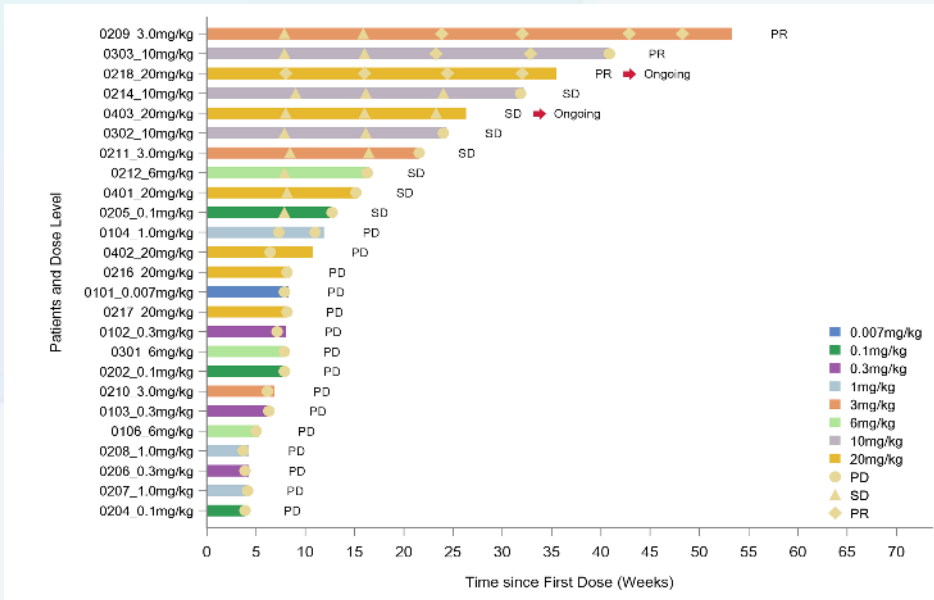


- 1 issued patent in each of the U.S. and Japan
- 1 issued patent in the PRC
- 1 pending patent application in each of Europe and the U.S.

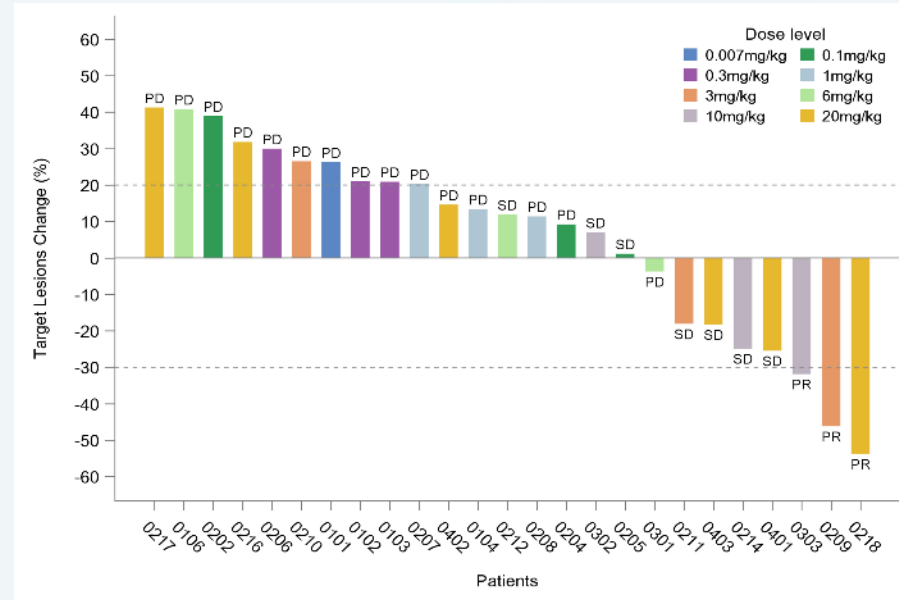
# IMM2510 (VEGF × PD-L1) (cont'd)

## Phase I: Efficacy Summary in advanced solid tumors

Duration of Treatment and Response



Best Percentage Change from Baseline in Target Lesion



Of 25 response-evaluable patients as of Dec 31, 2023, **3 patients** had confirmed PR, and **7 patients** achieved SD, with 4 of them observed tumor shrinkage of over 15%

# IMM27M (CTLA-4 ADCC+)

A CTLA-4 mAb with Enhanced ADCC Activity

## IMM27M - Mechanism of Action and Limitations of Approved Molecule

### IMM27M Molecule Structure



Engineered IgG1 CTLA-4 mAb with Enhanced ADCC



**Blocking the interaction** between CTLA-4 and CD80/CD86, and thus enhancing immune responses of T cells to tumor antigens



Inducing enhanced immune responses targeting CTLA-4 **overexpressed T<sub>reg</sub> cells**



Promoting T<sub>reg</sub> **depletion**, thus improving T-cell antitumor response to kill tumor cells

### Currently Approved CTLA-4 Antibody with Unmodified Fc:



Limited efficacy



High dosage to achieve desirable efficacy



Serious safety issues



### Clinical Development Plan

Jun 2022

Mar 2023

Sept 2023

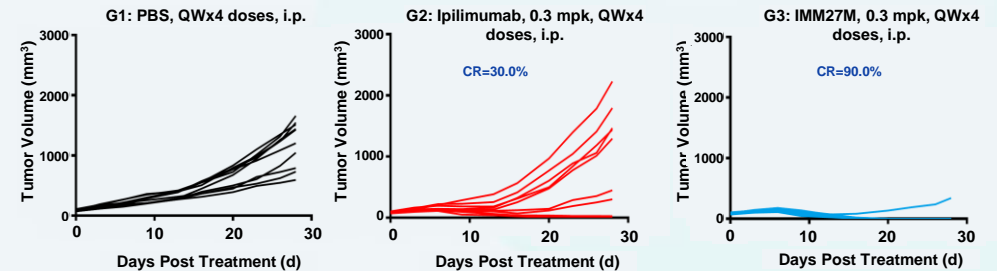
Phase I mono

IMM27M+PD-1 (advanced solid tumors) IND approval for Ph Ib/II

Phase I mono completed and confirmed RP2D

## Stronger In Vivo Antitumor Effects and Preliminary Ph1 data

### Efficacy Study in Colon Cancer (MC38) Syngeneic Mouse Model



Significantly **stronger antitumor activity** than ipilimumab, **complete tumor remission** even at a dose as low as **0.3 mg/kg** (~0.03 mg/kg human equivalent dose)



### Phase I Preliminary Efficacy

- **2 patients had confirmed PR:**
  - 1 patient with mBC (HR+/HER2+, IO naïve, 6L previous treatments) at 3.0 mg/kg with **best tumor shrinkage 62.5%**, duration of response about 9 months;
  - 1 patient with mBC (HR+/HER2-, IO naïve, 4L previous treatments) at 5.0 mg/kg with **best tumor shrinkage 41.0%**, duration of response over 4 months;
- **3 patients had SDs with tumor shrinkage:**
  - 1 patient with metastatic melanoma has achieved tumor shrinkage of 22.9% at 2 mg/kg;
  - 2 patients with HR positive BCs have achieved tumor shrinkage of 18.5% at 7.5 mg/kg and 10.3% at 5 mg/kg, respectively.

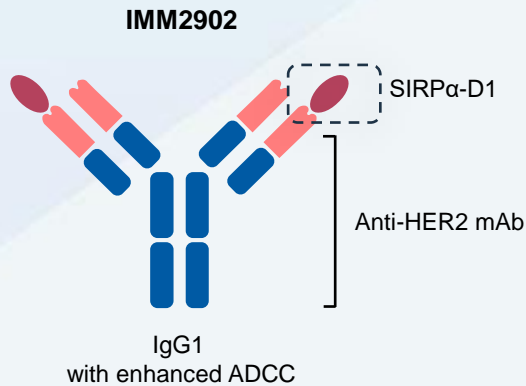
Source: Company Data; The clinical data is as of December 31<sup>st</sup>, 2023






# IMM2902 (CD47×HER2)

The only CD47×HER2 bispecific molecule that has entered into clinical trial globally

## Overview

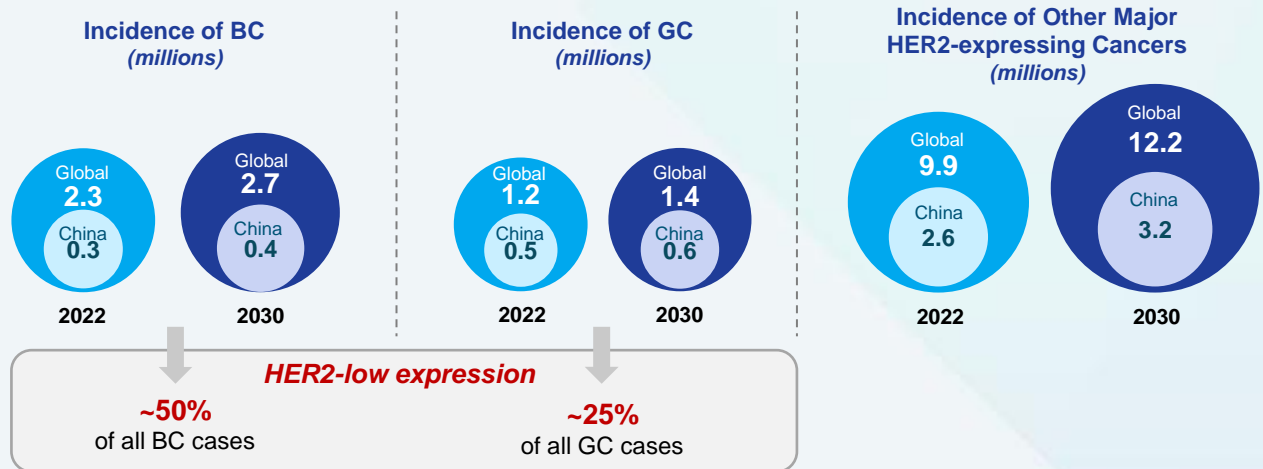


-  No RBC binding *in vitro*
-  Enhanced ADCP and ADCC activity
-  Accelerated HER2 internalization and degradation

## Market Opportunities and Competition



HER2 overexpression is prevalent in many major cancer types, such as BC, GC, lung cancer, CRC, EC, BTC, HNSCC and CC, presenting a **huge market potential**



**IMM2902 could benefit a large patient population globally**

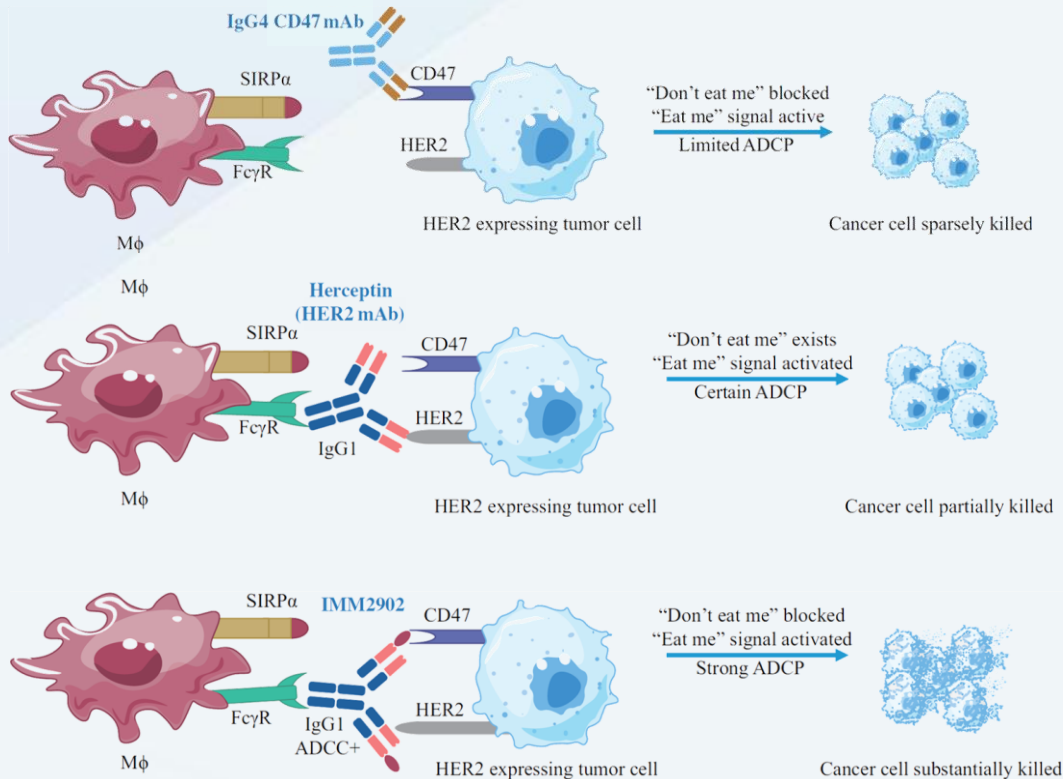
**Safer and more efficacious** treatment for patients with **HER2-low expressing** solid tumors and those relapsed from trastuzumab treatment

# IMM2902 (CD47×HER2) (cont'd)

## MoA and Competitive Advantages



### Mechanism of Action



**Notes:**

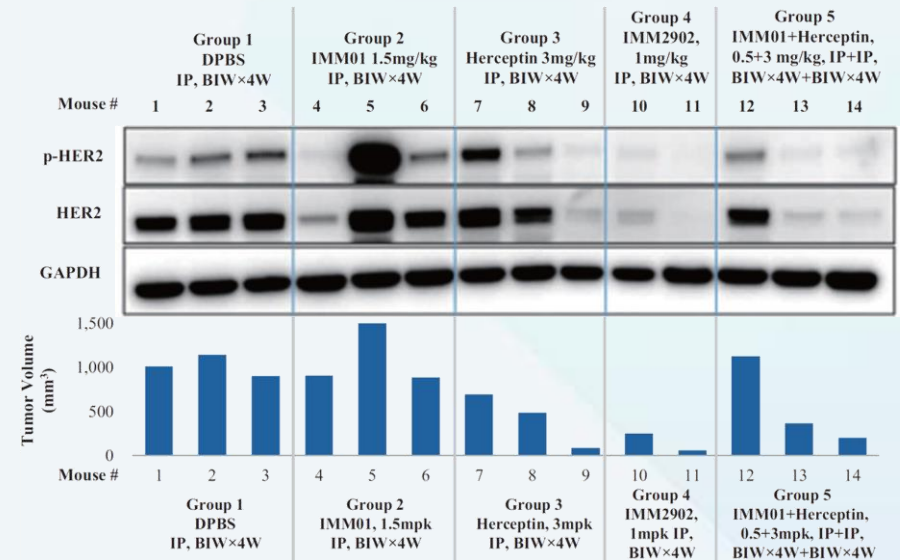
1. p-HER2 refers to phospho-HER2, DPBS refers to Dulbecco's Phosphate Buffered Saline, intended to provide a buffer system for maintaining cell culture media in the physiological range of 7.2 to 7.6.

Source: Company data



### Enhanced ADCC, ADPC, potentially ADCT, and accelerated HER2 degradation

#### Expression Analysis of HER2 and p-HER2 by Western Blot <sup>(1)</sup>

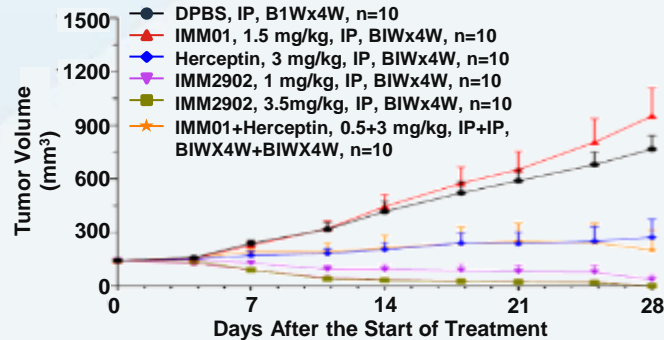


- Preclinical study showed that IMM2902 could **accelerate the endocytosis and degradation of HER2**, resulting in robust tumor suppression
- IMM2902 is also expected to **potentially induce ADCT activity**, another important Fc-induced mechanism observed with amivantamab (a marketed EGFR/c-MET bispecific antibody with IgG1 Fc), which works together with **ADCC and ADPC** to combat tumor cells

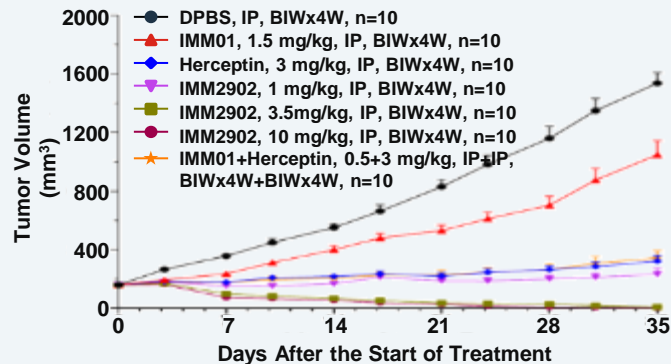
# IMM2902 (CD47×HER2) (cont'd)

## Preclinical Results – Strong *In Vivo* Antitumor Efficacy

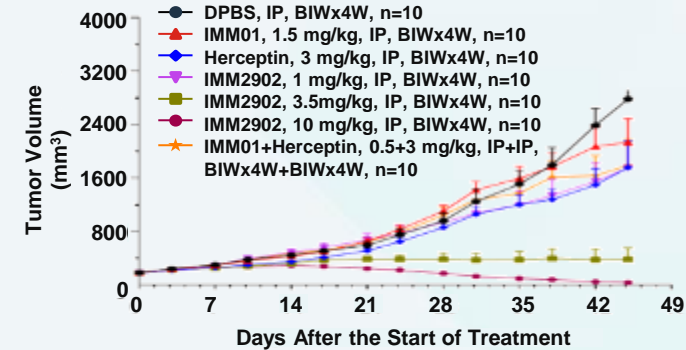
Efficacy Study in Herceptin-sensitive Breast Cancer (BT474) Xenograft Mouse Model



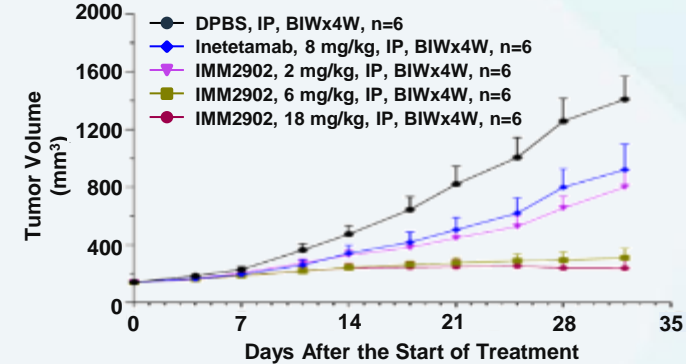
Efficacy Study in Herceptin-sensitive Gastric Cancer (NCI-N87) Xenograft Mouse Model



Efficacy Study in Herceptin-resistant Breast Cancer (HCC-1954) Xenograft Mouse Model



Efficacy Study in HER2-low Expressing Gastric Cancer (SNU-1) Xenograft Mouse Model



- IMM2902 exhibited favorable efficacy in **trastuzumab-sensitive and HER2-low expressing BC and GC models**

# IMM2902 (CD47×HER2) (cont'd)

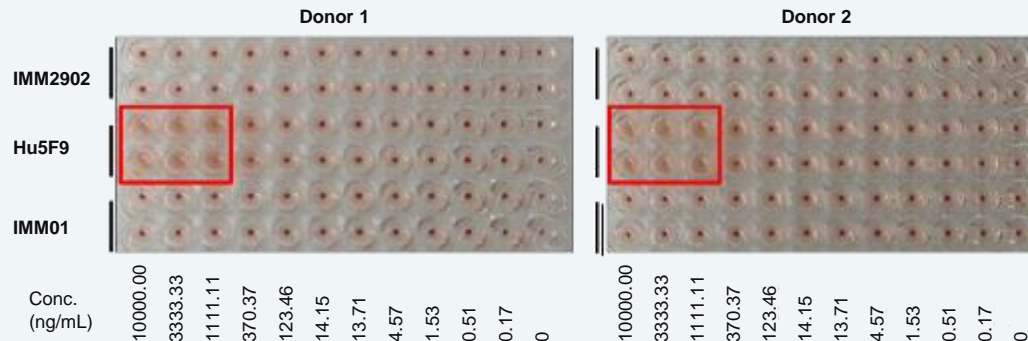
## Preclinical Results and Clinical Development Plan



Favorable safety profile with no human RBC binding *in vitro*

- With an engineered CD47-binding domain, IMM2902 does not bind to human RBCs nor induces hemagglutination *in vitro*
- IMM2902 did not induce hemagglutination even at the concentration as high as 10,000 ng/ml; while magrolimab analog induced obvious hemagglutination at the concentration beyond 370 ng/ml

### IMM2902 Does Not Induce Hemagglutination of Human Red Blood Cells<sup>(1)</sup>



**Notes:**  
1. Magrolimab analog used in this study was replicated by us based on public information  
**Source:** Company data



Clinical Development Plan



- Phase I/II trial initiated in China in February 2022
- Evaluated for treatment of advanced HER2-positive and HER2-low expressing solid tumors, including BC, GC, NSCLC and BTC
- Enrolling the seventh cohort



- Phase Ia/Ib trial in the U.S. ongoing, with the first patient dosed in June 2022
- Evaluated for treatment of HER2-positive and HER2-low expressing solid tumors
- Received **Fast Track Designation from the FDA** in July 2022

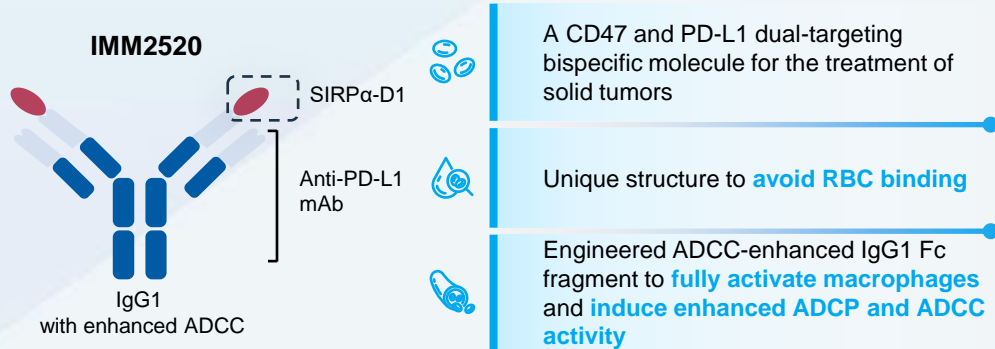
### Developing In-house and Own IP and Commercial Rights



- 1** issued patent in the U.S. and **1** issued patent in Japan
- 1** allowed European patent application
- 3** pending patent applications in PRC, the U.S., and Hong Kong

# IMM2520 (CD47×PD-L1)

## Overview

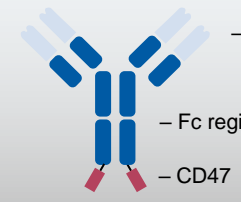


## Competition Landscape

Other 9 CD47 and PD-1/PD-L1 bispecific molecules under clinical development

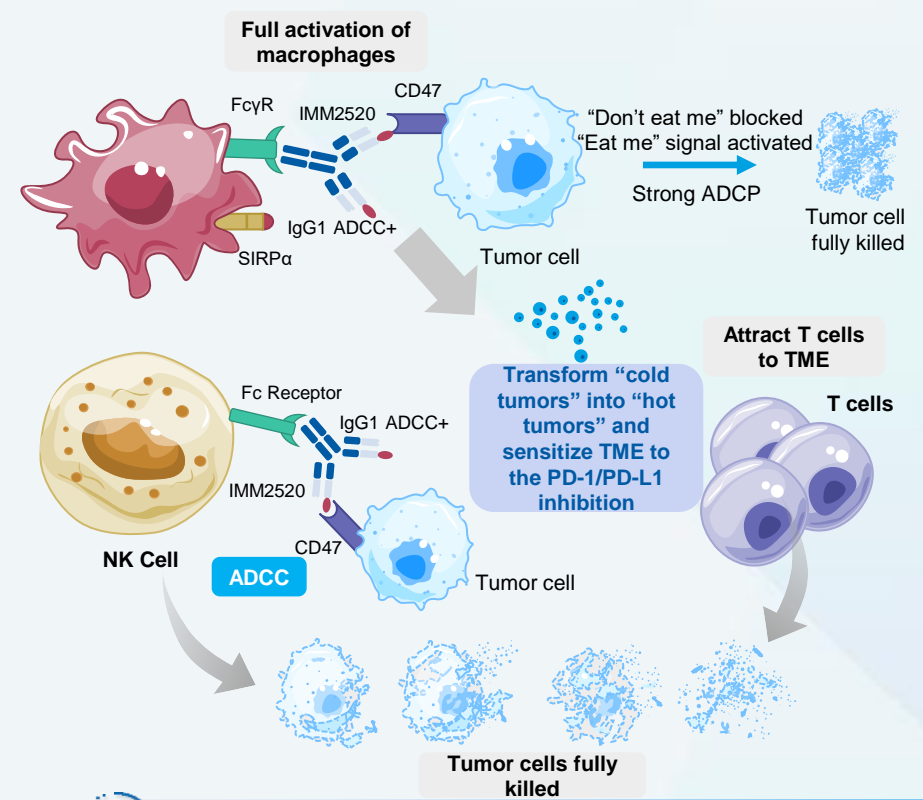
- ✓ Bispecific molecule formats: certain molecules connect the CD47-binding to the Fc end, which could disrupt immune activation resulted from Fc-FcγR engagement
- ✓ IgG4 Fc: several molecules resort to an IgG4 Fc region with weak FcγR engagement

**HX009 (Hans Bio)**



- PD-1
- Fc region
- CD47

## Mechanism of Action



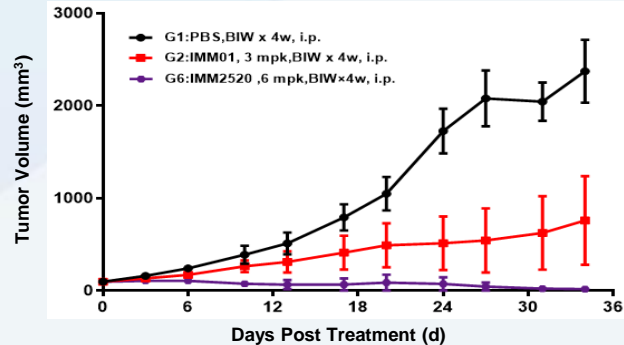
Due to the crosstalk among macrophages, NK cells and T cells, IMM2520 is able to unleash significant synergistic effects

# IMM2520 (CD47×PD-L1) (cont'd)



## Preclinical Results

### Efficacy Study in Colon Cancer (CT26) Mouse Model <sup>(1)</sup>



**Note:**

1. IMM2505 is a first-generation CD47 and PD-L1 bispecific molecule internally developed by us; (2) Six mice per group were used in this study  
Source: Company data



IMM2520 has also demonstrated a favorable safety profile. Its engineered CD47-binding domain shows no binding activity with human RBCs *in vitro*.

### Developing In-house and Own its IP and Commercial Rights



1 issued patent in Japan

1 issued patent in PRC

1 issued patent in the U.S.

Several pending patent applications in Europe, Korea and Brazil



## Market Opportunities and Clinical Development Plan

### Opportunities

A huge market potential for IMM2520



- ✓ A wide range of cancer indications with high macrophage infiltration
- ✓ Only about 10% to 25% of patients across almost all major cancer types respond to PD-1/PD-L1 inhibitor monotherapy, including but not limited to NSCLC, SCLC, CRC, GC, HNSCC, HCC, ESCC, OC, prostate cancer, and pancreatic cancer

### Clinical Development Plan

Have obtained IND approvals from the NMPA in November 2022 and from the FDA in December 2022; Phase I commenced in China in March 2023.



### Phase I Preliminary Efficacy

As of December 31, 2023, we have observed 3 SDs with over 10% tumor shrinkage:

- 1 Cervical cancer (1L previous treatments) at 0.1 mg/kg with tumor shrinkage 21.1%;
- 1 SCLC (previous IO failure, 2L previous treatments) at 2.0 mg/kg with tumor shrinkage 19.0% (further -26.3% by Jan 2024);
- 1 CRC (≥4L previous treatments) at 2.0 mg/kg with tumor shrinkage 11.4%;

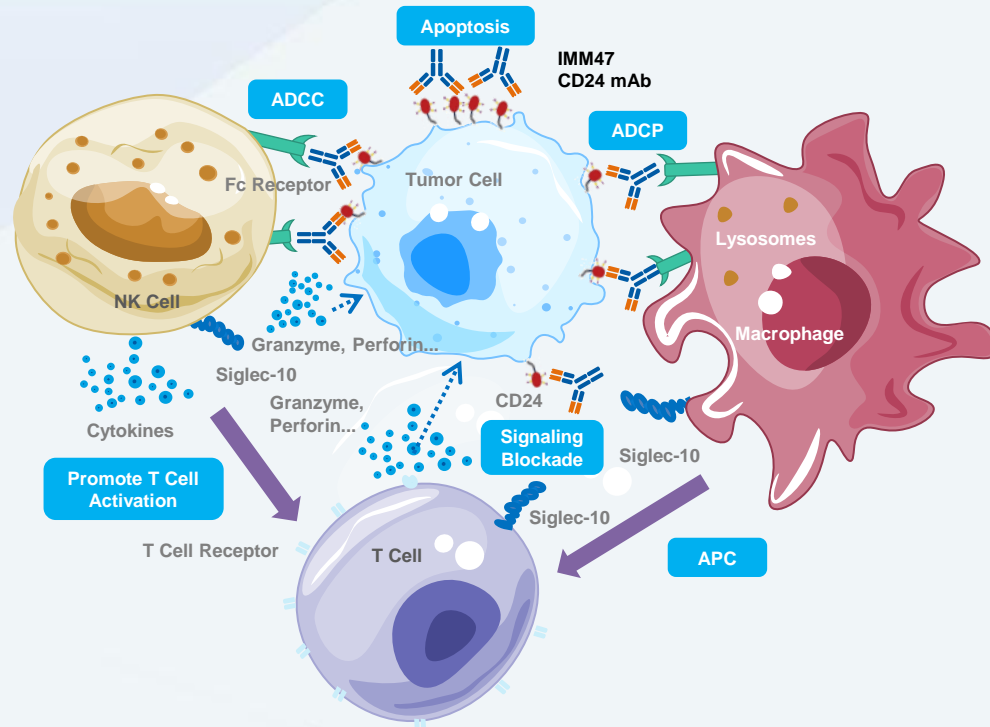


# IMM47 (CD24)

## A Potential Global First-in-Class CD24-Targeted mAb



### IMM47 – Molecule Structure and Mechanism of Action



### IMM47 Molecule Structure



CD24 mAb  
IgG1 Fc with  
Enhanced ADCC

**Block CD24/Siglec-10  
immune inhibitory signaling**

**Induce ADCC/ADCP**



Suppressing the CD24/Siglec-10 inhibitory signals sent to macrophages, NK cells and T cells



Potently activating macrophage and NK cell-immune responses through ADCP and ADCC



Significantly increasing the amount of M1 macrophages in tumor tissues



Activating and promoting T-cell response likely through tumor antigen presentation by activated macrophages to T cells and direct blockade of CD24/Siglec-10 inhibitory signals

## IMM47 (CD24) (cont'd)

CD24 is a Promising Target with Wide Expression and Broad Therapeutic Potential across Various Tumor Types

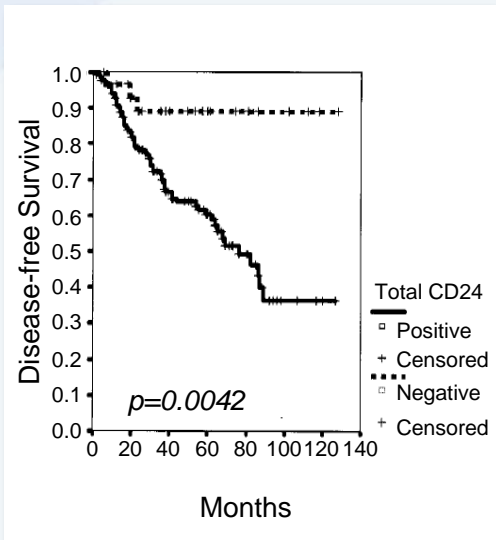


Broadly overexpressed on many types of tumor tissues, including B-cell lymphomas, erythroleukemia, gliomas, SCLC, ESCC, HCC, CCA, PAAD, UC, OC, BC, primary NECs, and PC<sup>1</sup>

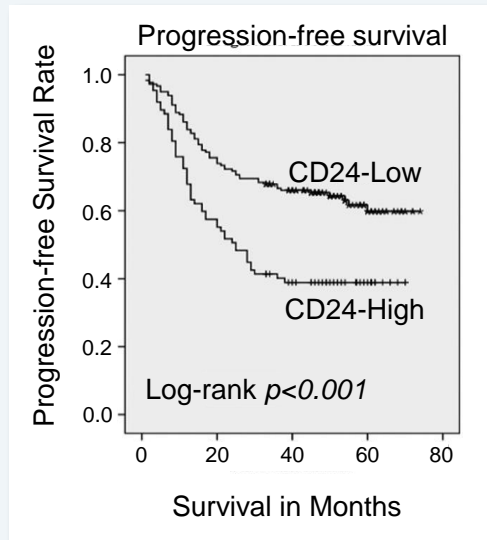


Recognized as an important marker for poor prognosis of those cancers, presenting a huge market potential

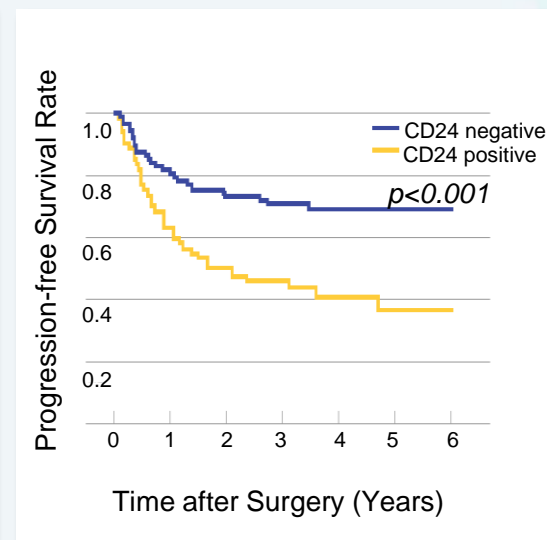
Primary Breast Cancer<sup>2</sup>



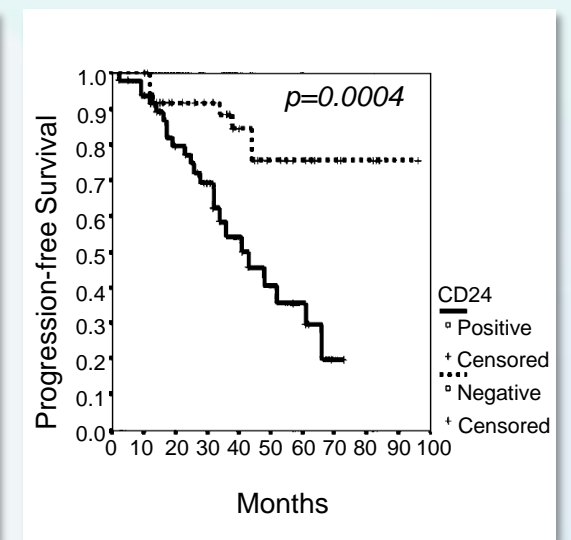
NSCLC<sup>3</sup>



ESCC<sup>4</sup>



Prostate Cancer<sup>5</sup>



Source:

1. Cellular & Molecular Immunology (2010) 7, 100–103; 2. Clin Cancer Res 2003; 9:4906–4913; 3. J Thorac Oncol. 2010;5: 649–657; 4. Ann Surg Oncol (2009) 16:506–514; 5. The Prostate 58:183–192 (2004)

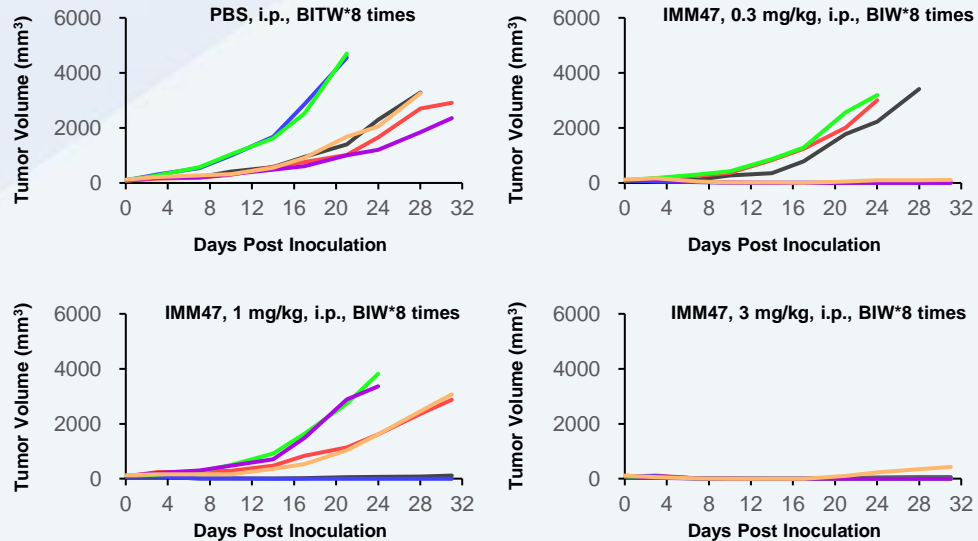
# IMM47 (CD24) (cont'd)

## Competitive Advantages



Proof-of-Concept Study in Colon Cancer (MC38-hCD24) Syngeneic Model in hSiglec-10 Tg C57BL/6 Mice

### Compelling Tumor Killing Capabilities

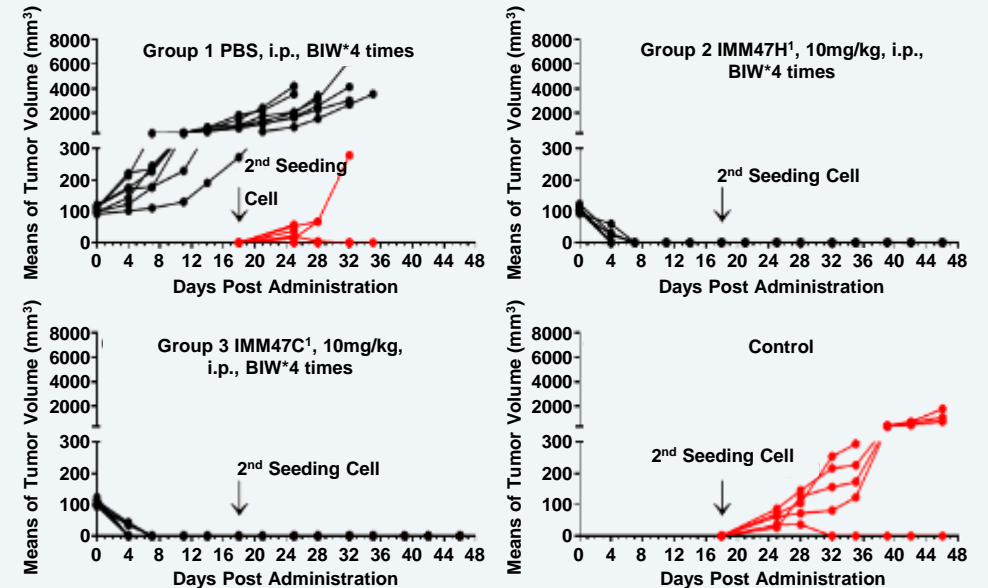


- At the dose level of 3.0mg/kg (~0.3kg/mg in human), IMM47 successfully **eradicated subcutaneously inoculated tumor cell** in all six mice after three treatments in colon cancer model

**Notes:**

1. IMM47C is a previous chimeric version of IMM47 and IMM47H is an earlier fully humanized version of IMM47. IMM47 revealed highly similar *in vitro* efficacy as IMM47C and IMM47H, and was eventually selected for further development

### Complete Tumor Eradication



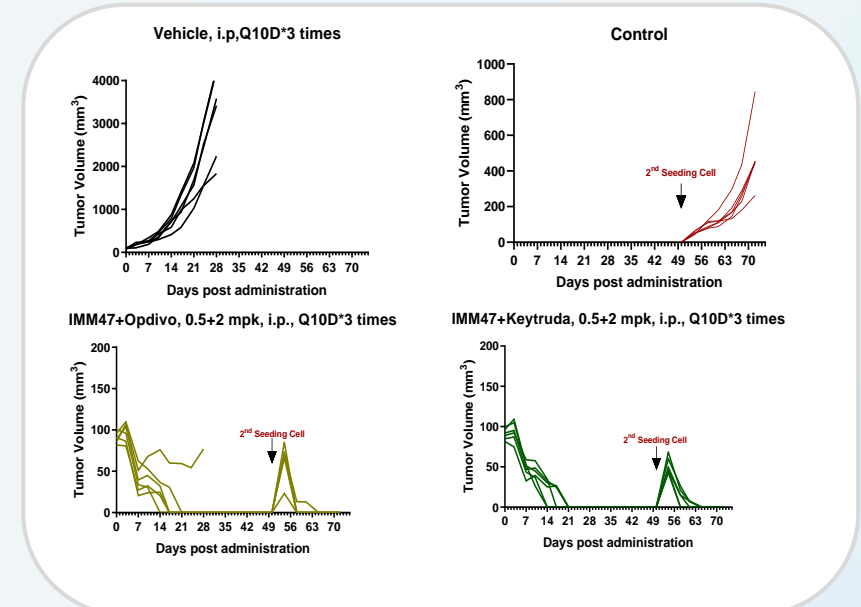
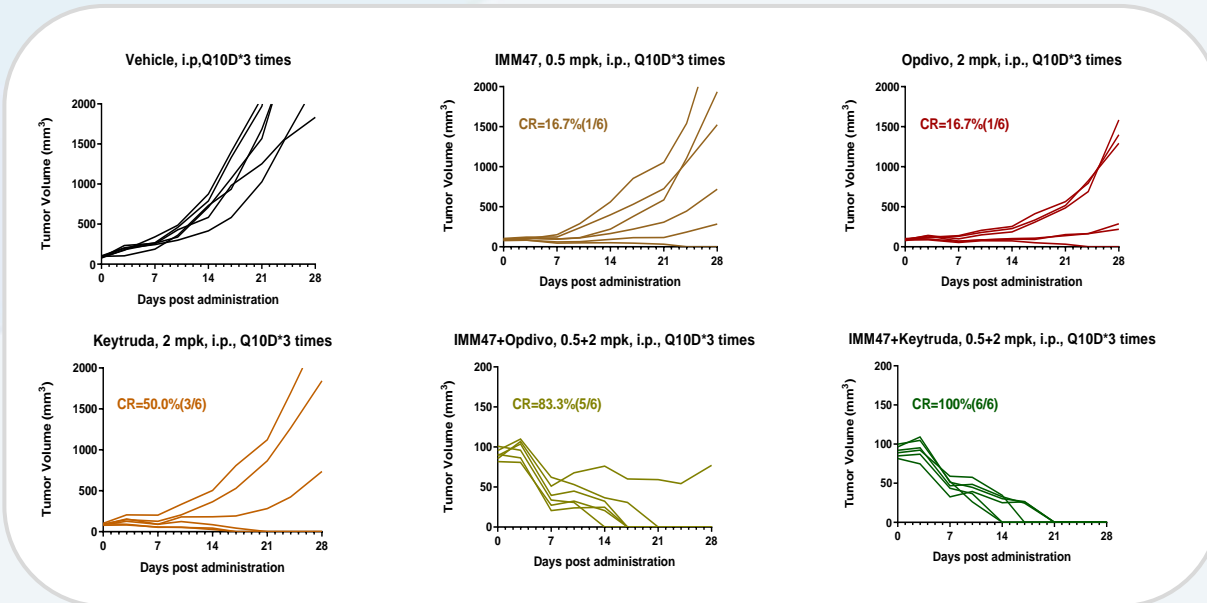
- Robust antitumor activities, leading to complete tumor eradication, with the ability to induce immunological memory against tumor
- Tumor-specific immune response that prevents tumor growth against re-inoculation

## IMM47 (CD24) (cont'd)

### Strong synergy between IMM47 and PD-1 mAb



Proof-of-Concept Study in MC38-hCD24/hPD-L1 syngeneic tumor model in hPD-1 Tg C57 BL/6 mice



- In comparison to the vehicle-controlled group, IMM47 (anti-CD24 antibody, 0.5mpk), Opdivo (anti-PD-1 antibody, 2mpk), and Keytruda (anti-PD-1 antibody, 2mpk), all showed significant but similar anti-tumor activity at relatively lower dose;
- While the combination of IMM47 with either Opdivo or Keytruda at comparable dose demonstrates a potent and robust anti-tumor activity, **with complete response rate of 83% and 100% respectively**

- Most intriguingly, upon reinoculation of the same cancer cells into the mice pretreated with IMM47 and anti-PD-1 antibodies, tumor growth was quickly and completely eliminated, **suggesting tumor-specific immune response has been established**

# IMM47 (CD24) (cont'd)

## Novel Target Development with Only a Handful Contenders, Well-Recognized by Industry Pioneers



### IMM47 - Competition Landscape



**No approved drug targeting CD24 globally.** Only one drug candidate recently receiving IND approval from the FDA for its Phase I clinical trial




**Global R&D race with few contenders:** only very few reported CD24-targeted mAbs under pre-clinical development for cancer treatment have global first-in-class potential; ImmuneOnco as the only company reported to have been developing CD24-targeted bispecific molecule around the world



**High entry barrier:** the weak immunogenicity of CD24 due to its small protein core has made the screening and development of antibodies against CD24 highly challenging

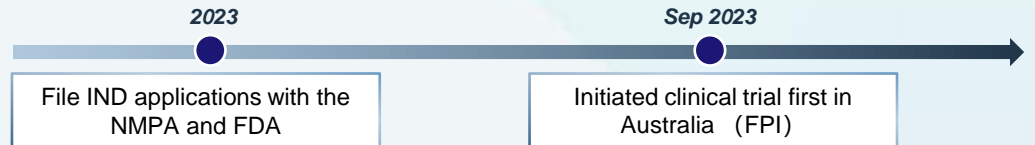
Drug Name	Target	Modality	Clinical Stage
IMM47	CD24	mAb	IND Enabling
IMM4701	CD47 x CD24	Bispecific	Preclinical
IMM2547	CD24 x PD-L1	Bispecific	Discovery



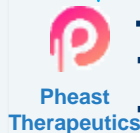
The **ONLY** company reported to have been developing CD24-targeted bispecific molecules



### Clinical Development Plan



### Recent Catalysts: Validation from Industry Veterans and Pioneers



Founders	Latest Financing	Key Financial Investors	Strategic/CVC/ Research Institutes
<ul style="list-style-type: none"> <li>Dr. Amira Barkal</li> <li>Dr. Irving Weissman</li> </ul>	Series-A: US\$76MM (with an estimated valuation of US\$304-456MM)	  	

### Proprietary Intellectual Property



- 1 issued patent in the PRC and 1 issued patent in Japan
- 1 allowed patent application in the U.S.
- 1 pending patent application in Europe

Source: Frost & Sullivan, public information, [https://datacommons.technation.io/companies/pheast\\_llc](https://datacommons.technation.io/companies/pheast_llc)

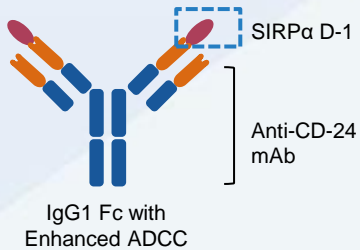
# IMM4701 (CD47 × CD24)

A Bispecific Molecule Targeting CD24 and CD47 with Global First-in-Class Potential



## IMM4701 - Mechanism of Action

### IMM4701 Molecule Structure



Activating key innate and adaptive immune responses



Enhancing the synergistic crosstalk



## IMM4701 - Competitive Advantage



Undisputable Global Leader



Carefully Designed Clinical Roadmap



Potent and Synergistic Immune Activation



Promising Combination Partner

### Developing One Owned Patent Family



3 issued patents in China, Japan and the U.S.

1 patent application in Europe

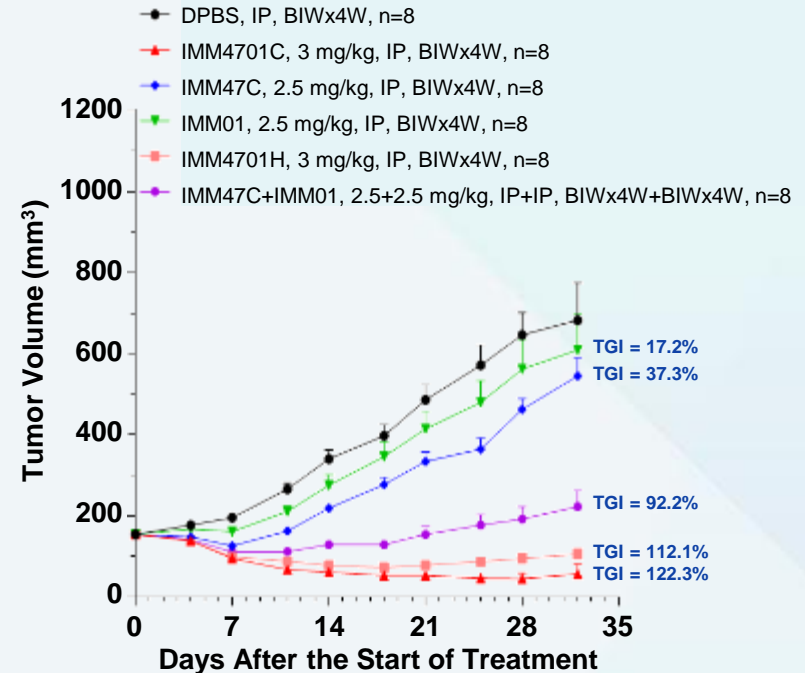
Notes:

- IMM47 revealed highly similar in vitro efficacy as IMM47C (a previous chimeric version of IMM47) and IMM47H (a previous fully humanized version of IMM47), and was eventually selected for the further development. IMM4701, IMM4701C and IMM4701H were developed based on IMM47, IMM47C and IMM47H, respectively
- IMM2547 is another innovative discovery-stage bsAb targeting CD24 × PD-L1 developed by the Company



## Strong and Robust Antitumor Activities

### Efficacy Study in Triple-negative Breast Cancer (MCF-7) Xenograft Mouse Model





# IMM40H (CD70)

## A Humanized IgG1 CD70 mAb with Potential to Combo with IMM01

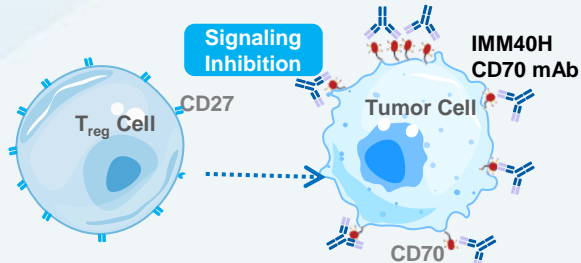


### IMM40H – Mechanism of Action

#### IMM40H Molecule Structure



Humanized IgG1 CD70 mAb with High Target Affinity



Obstructing the activation and proliferation of T<sub>reg</sub> cells

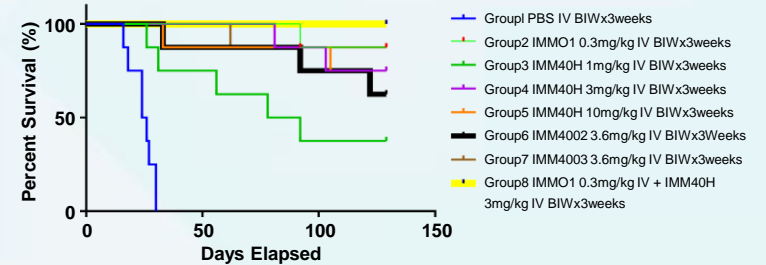
Inducing immune attacks against tumor cells



### Potent In Vivo Antitumor Effects in Combination with IMM01

#### Efficacy Study in Lymphoma (Raji) Orthotopic Mouse Model<sup>1</sup>

- IMM40H has exhibited **strong antitumor activity** in the preclinical studies.
- Strong synergism** between IMM01 and IMM40H has been observed



### IMM40H - Competitive Advantage



**Promising adaptive immune checkpoint:** IMM40H demonstrated strong synergistic potential when used alongside IMM01



**Leading R&D progress worldwide:** the Company is one of the first few companies to develop molecules targeting CD70

#### Developing One Owned Patent Family

- 1 issued patent the U.S.
- 1 issued patent in the PRC
- 1 issued patent in Japan
- 1 pending patent application in Europe



### Other Pre-clinical Benefits of IMM40H



Stronger CD70-binding affinity than cusatuzumab



Demonstrated potent ADCC, CDC and ADCP activity



Favorable safety profile of IMM40H



### Current Status

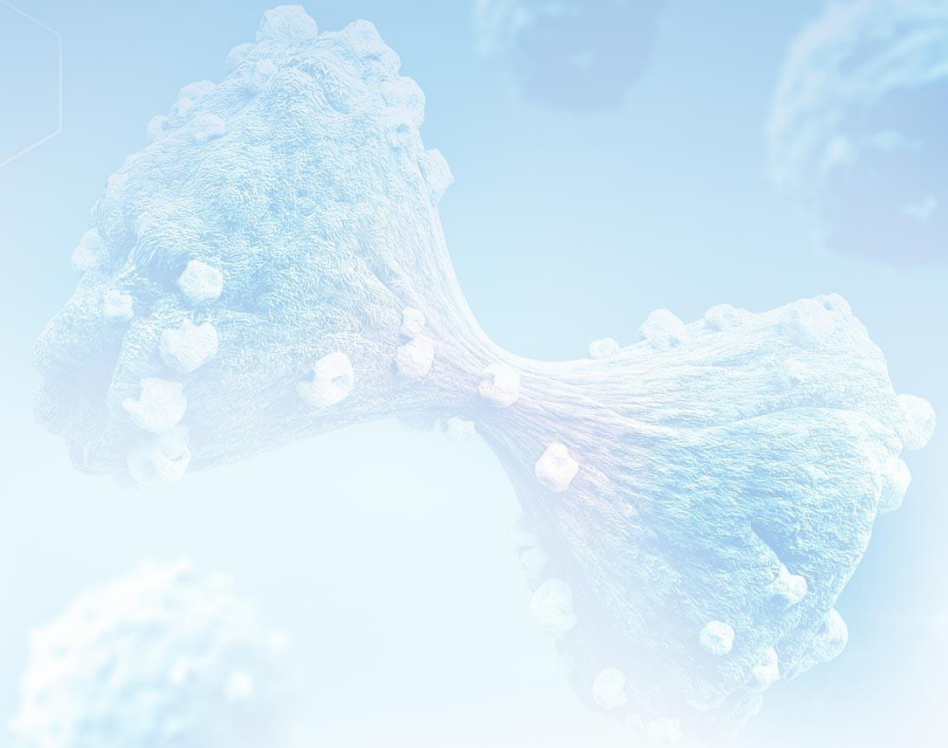
**IND approved by both NMPA and FDA in August 2022**



宜明昂科  
ImmuneOnco

SECTION 4

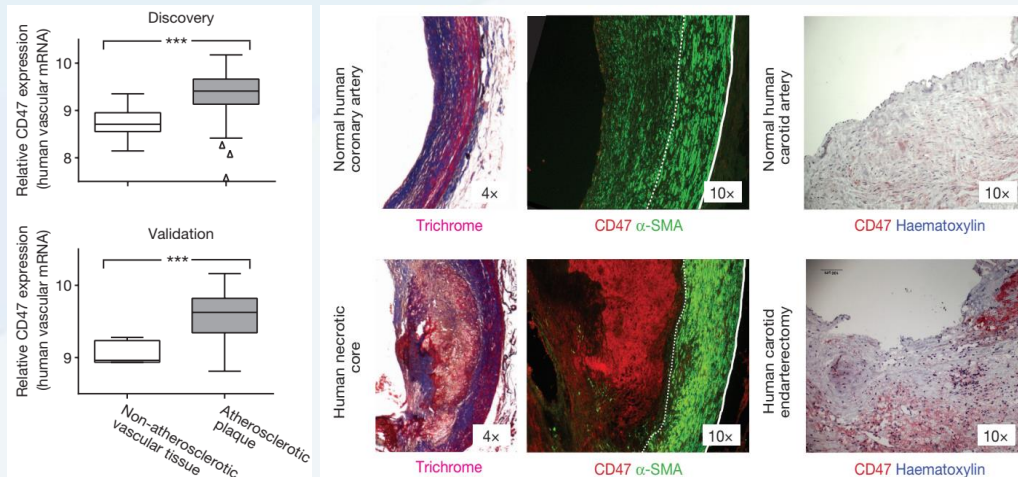
# Non-Oncology Pipeline Introduction



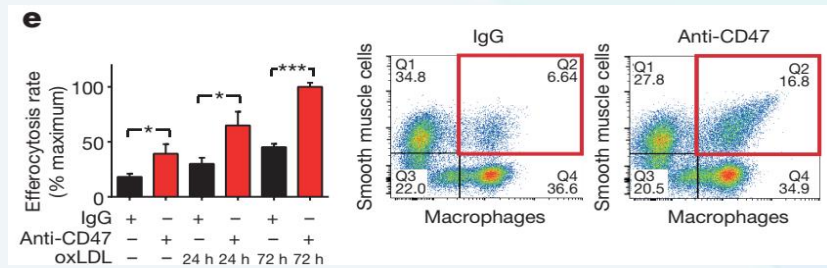
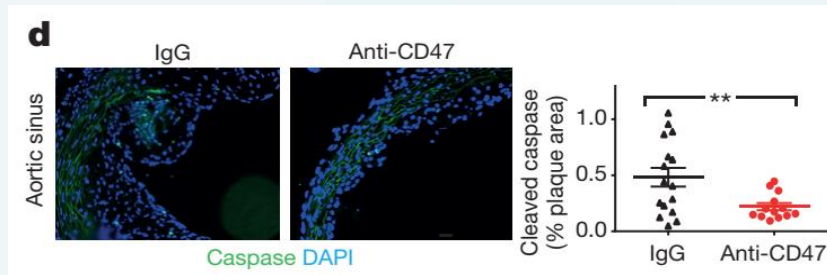
# IMC-001 (IMM01, SIRP $\alpha$ -Fc)

Our CD47-targeted IMM01 presents a strong potential in treating atherosclerosis

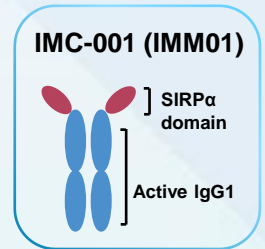
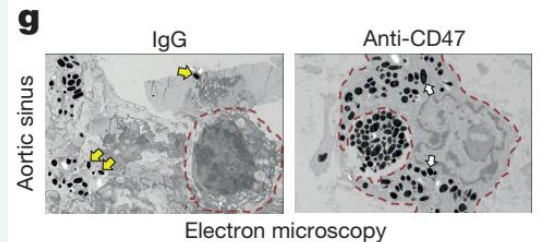
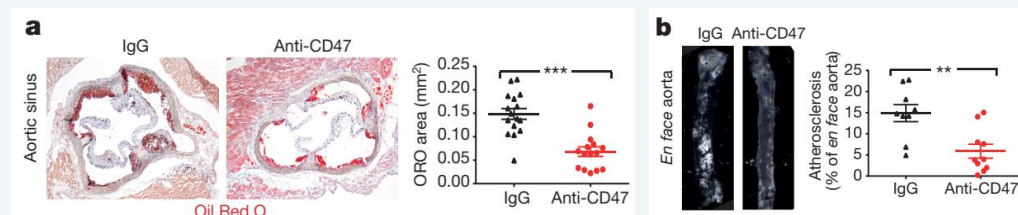
## CD47 is highly expressed in human atherosclerotic plaque



## By blocking the CD47 signal, macrophages can phagocytose the atherosclerotic plaque in rat vessel



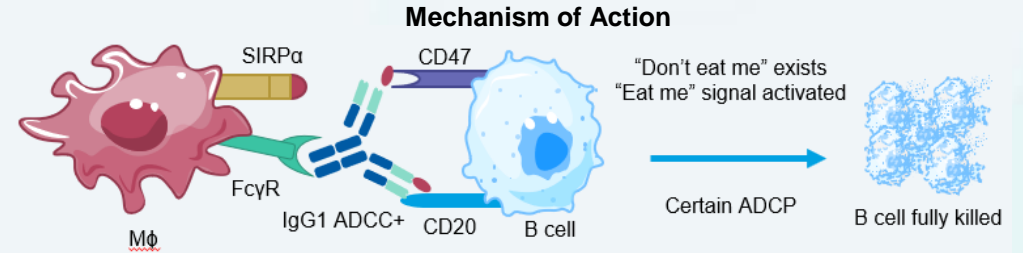
## Shrinkage of atherosclerotic plaque was observed in rat model by blocking the CD47/SIRP $\alpha$ signaling pathway



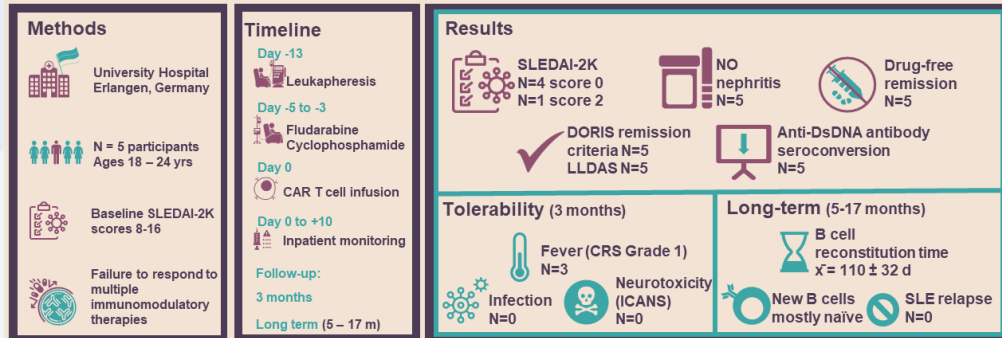
## IMC-002 (IMM0306, CD47xCD20/mAb-Trap)

B-cell depletion was observed in IMM0306 clinical studies, presents a strong potential in the treatments of autoimmune diseases

A study conducted by Dr. Georg Schett at the University of Erlangen-Nuremberg showed that **deep depletion of B cells** was observed following CD19+ CAR-T treatment in 15 patients, including 8 with systemic lupus erythematosus (SLE), 3 with idiopathic inflammatory myopathies (IIM), and 4 with multiple sclerosis (MS). All patients achieved drug-free remission after the reappearance of B cells, and there were no relapses reported during the 2-year follow-up period.



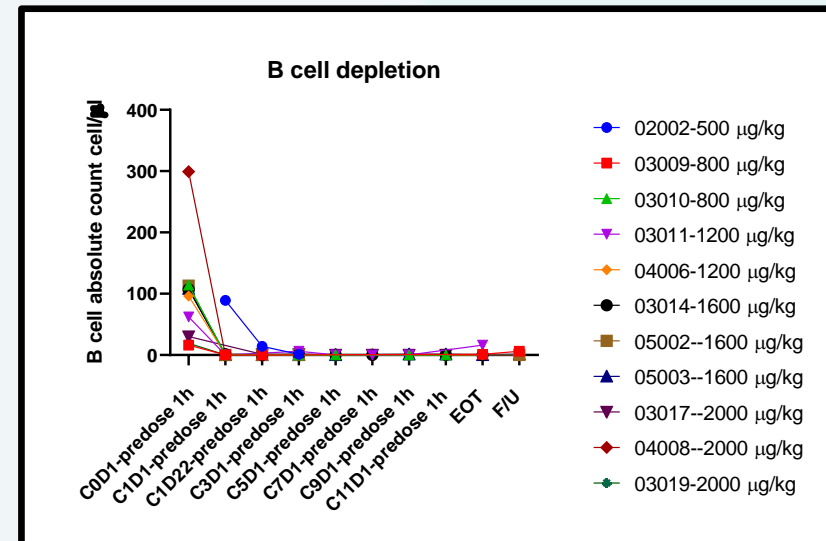
Upon binding with CD20 and CD47, **IMC-002 is expected to deplete B cells by inducing enhanced ADCC and ADCP activity**



**RITUXAN® (rituximab, CD20)** was approved by FDA in 2006 for the treatment of **rheumatoid arthritis (RA)**;

**BRIUMVI™ (Ublituximab, CD20)** was approved by FDA in 2022 for the treatment of **multiple sclerosis (MS)**;

**B-cell depletion therapies (BCDTs)** are widely used in the treatments of autoimmune diseases.





## IMC-003 (IMM72, ActRIIA/Fc-fusion)

### ActRII biology in reducing fat mass while preserving muscle mass

#### ActRII biology in adipose tissue



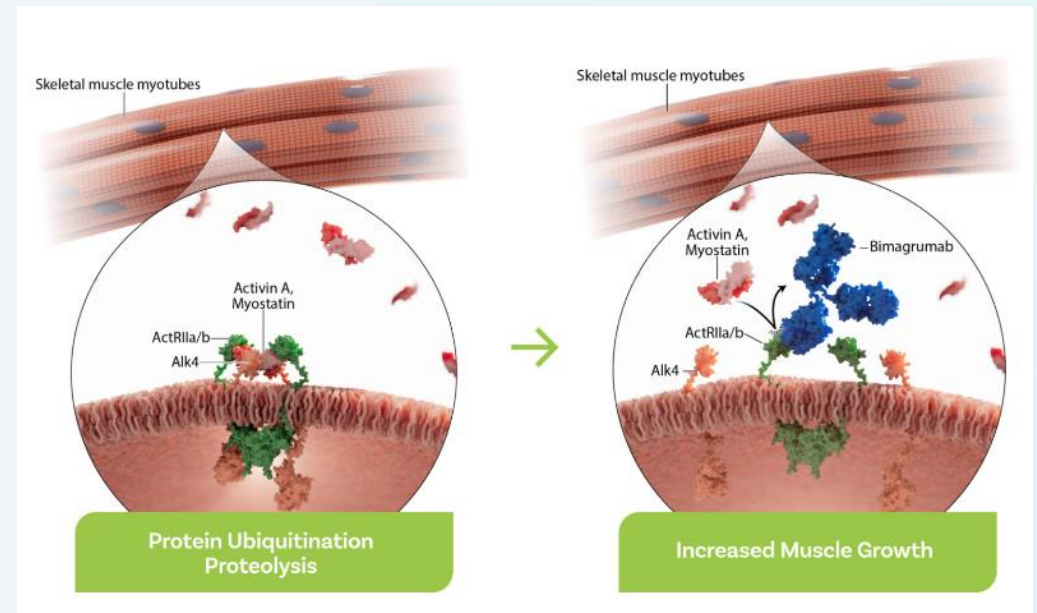
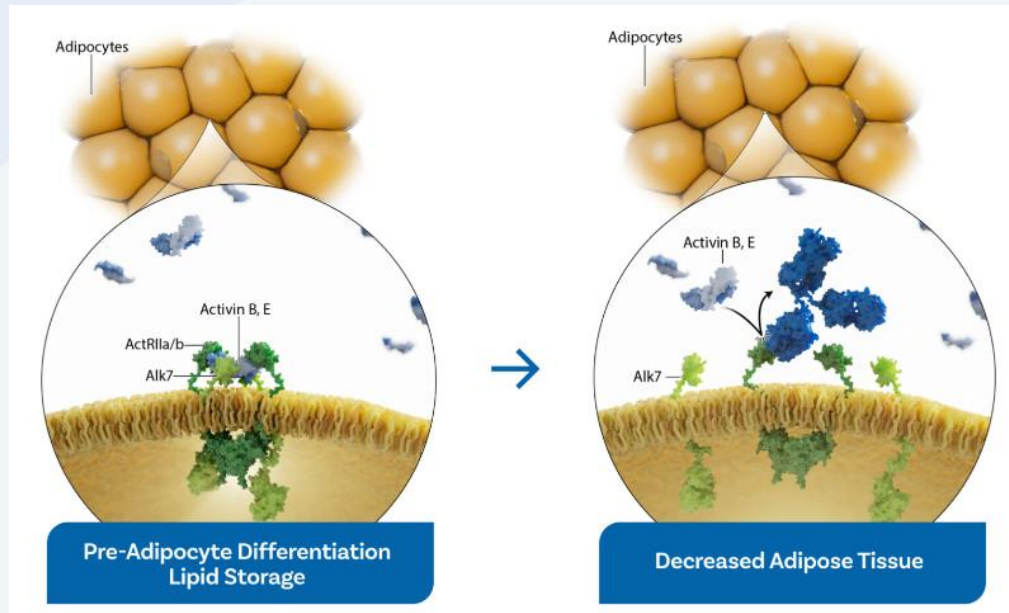
Activin signaling via ActRII receptors directly promotes lipid storage, acting as a key driver of visceral fat accumulation and obesity

By blocking ActRII signaling in adipose cells, can mobilize and metabolize fat.

#### ActRII biology in muscle tissue

Signaling via ActRII receptors inhibits muscle growth and promotes atrophy.

Blocking activin signaling in skeletal muscles inhibits this atrophy and can promote increases in muscle mass, helping patients with obesity improve body composition and metabolism while losing fat.



## IMC-003 (IMM72, ActRIIA/Fc-fusion)

Recent deal: Eli Lilly completed the acquisition of Versanis Bio in up to \$1.925 billion cash



### Lilly Completes Acquisition of Versanis Bio

August 14, 2023

INDIANAPOLIS, Aug. 14, 2023 /PRNewswire/ -- Eli Lilly and Company (NYSE: LLY) today announced the successful completion of its acquisition of Versanis Bio. The acquisition expands Lilly's portfolio to include Versanis' lead asset, bimagrumab, which is currently being assessed in a Phase 2b study alone and in combination with semaglutide in adults living with overweight or obesity.

"Combining our current incretin portfolio, including tirzepatide, with activin receptor blockers such as bimagrumab, could be the next major step in innovative treatments for those living with cardiometabolic diseases, like obesity," said Ruth Gimeno, Ph.D., group vice president, diabetes, obesity and cardiometabolic research at Lilly. "The wealth of knowledge that our new colleagues from Versanis will bring to Lilly will propel our research and development efforts forward, ultimately benefiting patients around the world."

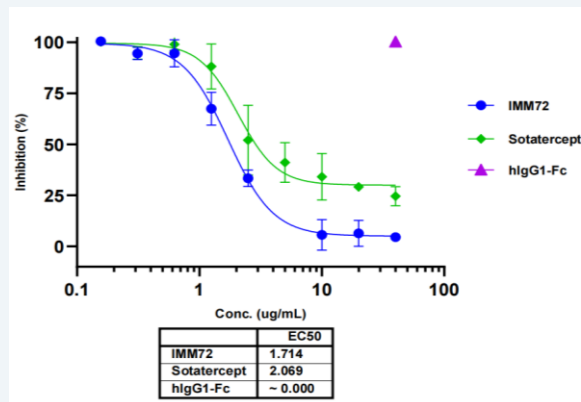
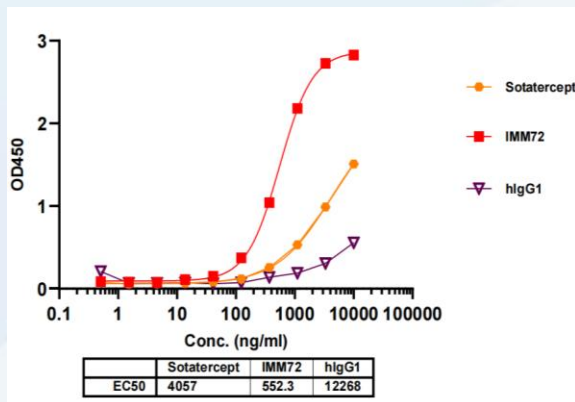
Under the terms of the agreement, Versanis shareholders could receive up to \$1.925 billion in cash, inclusive of the upfront payment and subsequent payments upon achievement of certain development and sales milestones.

For Lilly, Kirkland & Ellis LLP is acting as legal counsel. For Versanis, Goodwin Procter LLP is acting as legal counsel, Cooley LLP is advising as to patent matters, and J.P. Morgan and Company is acting as financial advisor.

# IMC-003 (IMM72, ActRIIA/Fc-fusion)

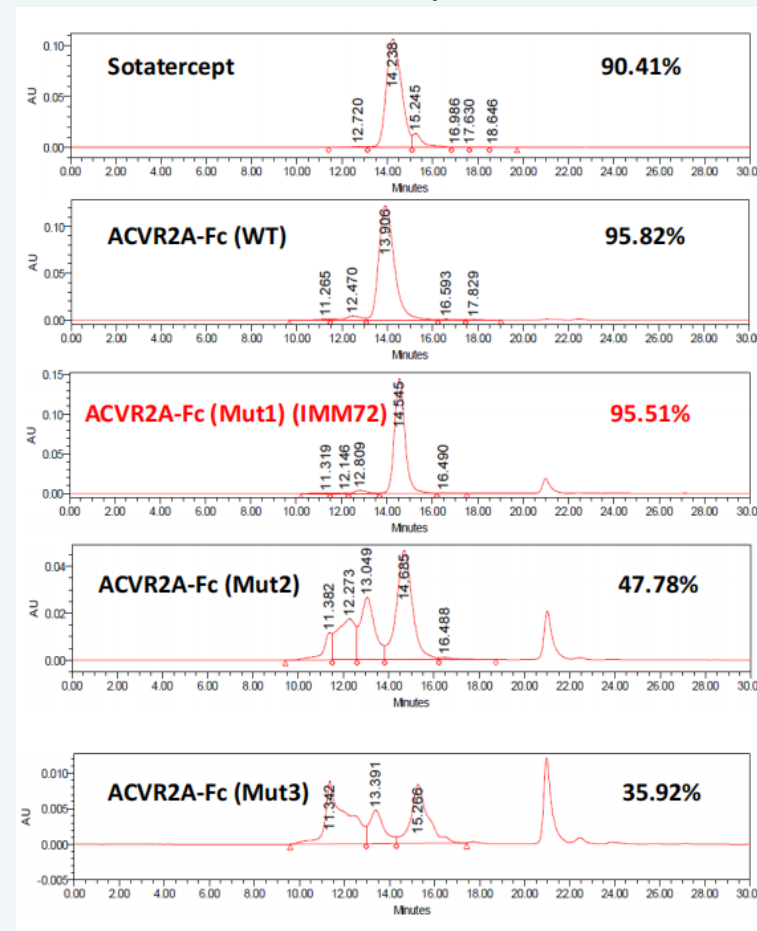
## Preclinical Results

Compared to Sotatercept, IMC-003 has stronger binding and blocking capacity



	IMC-003 (IMM72)	Sotatercept
Company	ImmuneOnco (ImmuneCare)	Merck
Molecule Structure	ActRIIA-Fc (Engineered)	ActRIIA-Fc (Wild-type)
Affinity Assay	Similar, but higher response	Similar
Binding Activity	<b>7x than Sotatercept</b>	Moderate
Blocking Activity	<b>Strong</b>	Moderate
In Vivo Efficacy	<b>Strong</b>	Moderate

## SEC Analysis

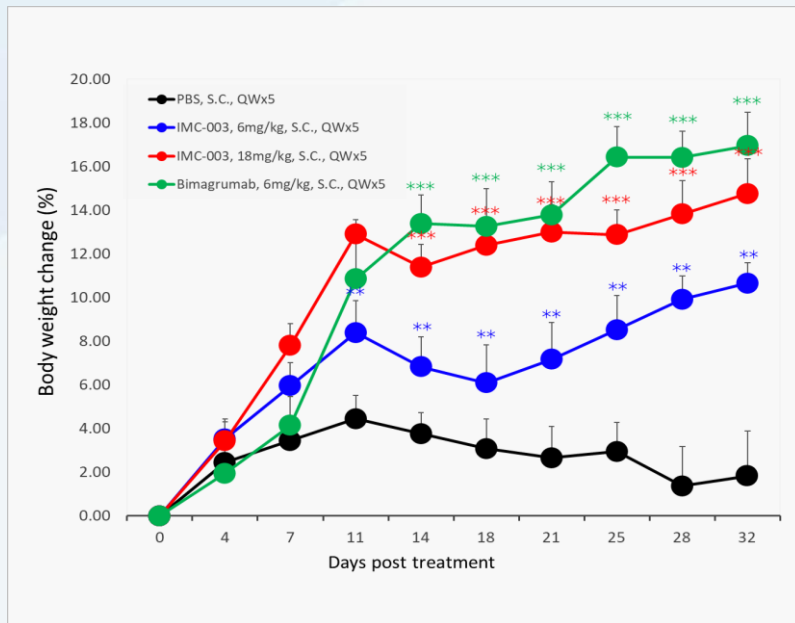




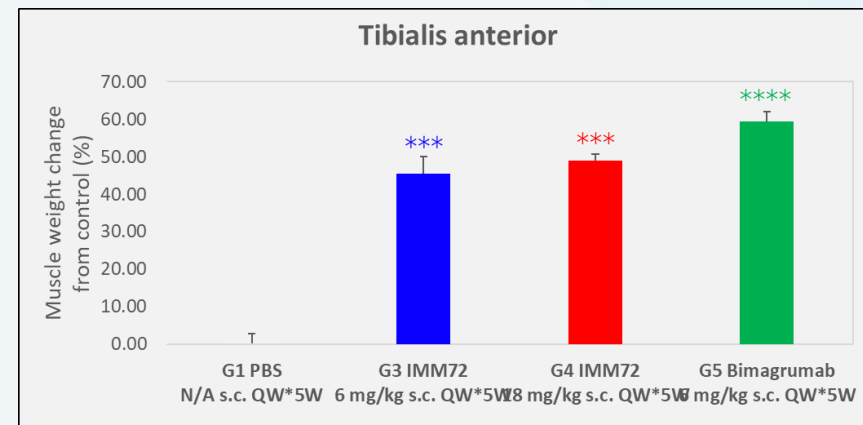
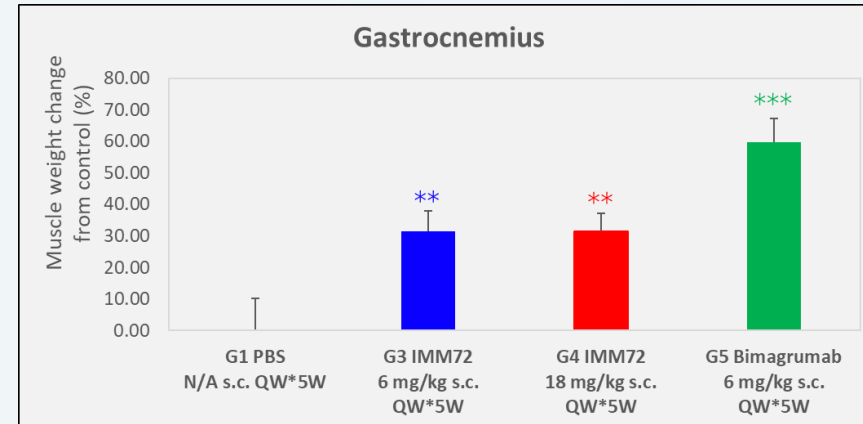
# IMC-003 (IMM72, ActRIIA/Fc-fusion)

Preclinical Results helps build muscle and lose weight

Body weight increased substantially by IMC-003 treatment



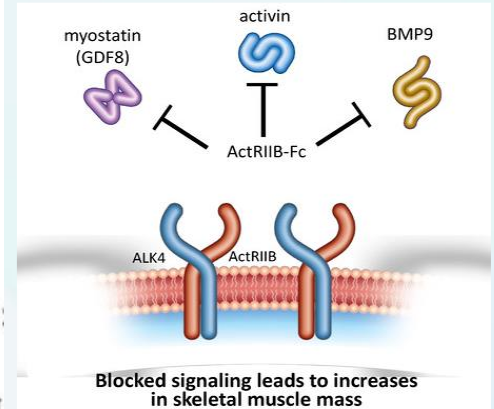
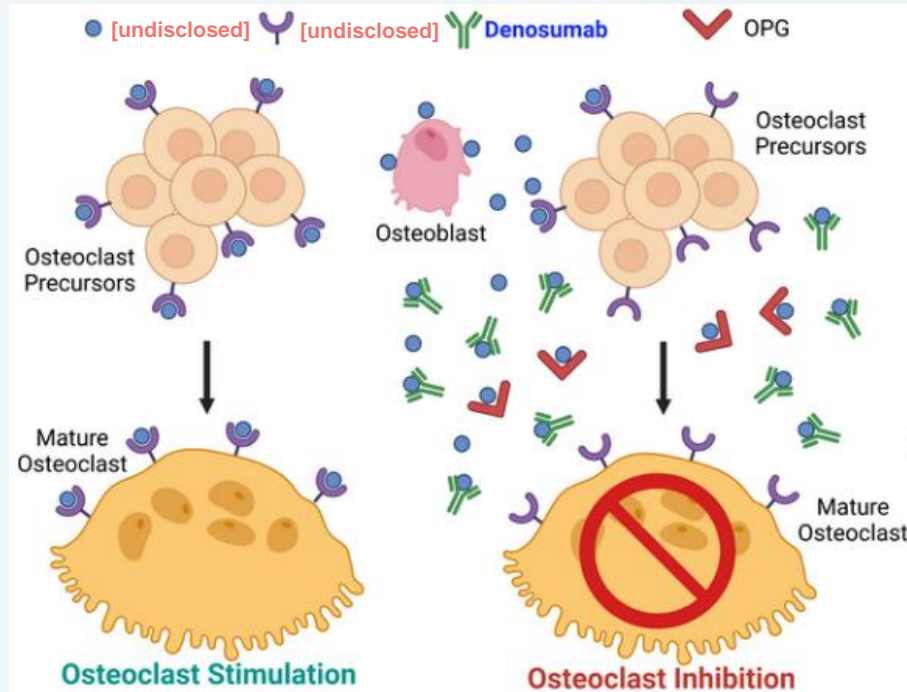
Skeletal muscle increased substantially by IMC-003 treatment



## IMC-004 (IMM7211, [undisclosed] x ActRIIA/mAb-Trap)

A Bispecific molecule Targeting [undisclosed] and ActRIIA with Global First-in-Class Potential

- The binding of [undisclosed] to its receptor triggers osteoclast precursors to differentiate into osteoclasts and results in osteoporosis.
- Activin A can stimulate the formation of osteoclasts. **By blocking the Activin A/ActRIIA signaling pathway** can inhibit the formation of osteoclasts and increase the bone density, and also leads to increases in skeletal muscle mass.
- **IMC-004 (IMM7211)** is expected for the better treatments of osteoporosis and skeletal muscle mass decrease, **by blocking both [undisclosed] and Activin A/ActRIIA signaling pathway**.

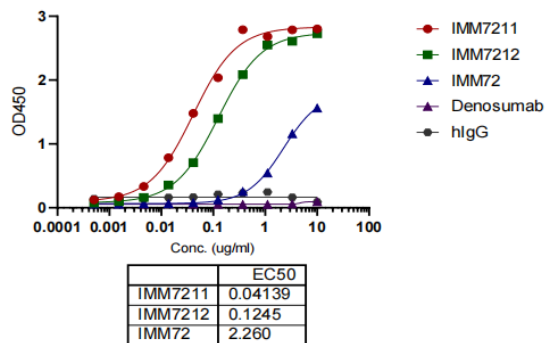


# IMC-004 (IMM7211, [undisclosed]) x ActRIIA)

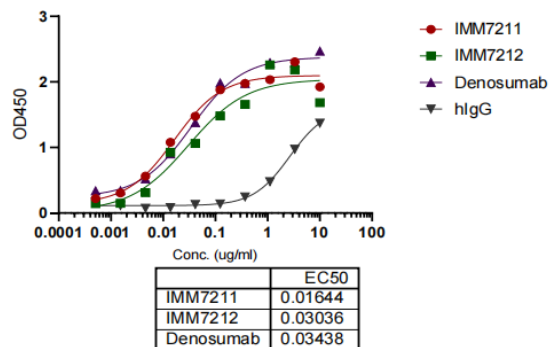
## Preclinical Results

IMC-004 (IMM7211) has stronger binding and blocking capacity than IMM7212 on Activin A and [non-disclosed]; and is similar to Denosumab on [non-disclosed]

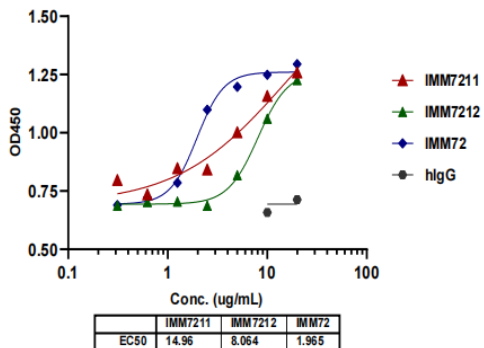
20230629 Binding of IMM7211 to Activin A by ELISA



20230629 Binding of IMM7211 to [undisclosed] by ELISA



20230630 IMM7211 relieves the inhibitory effect of activin A on MPC-11 cell proliferation



IMM7211/IMM7212 Blocking the Interaction of [undisclosed]

