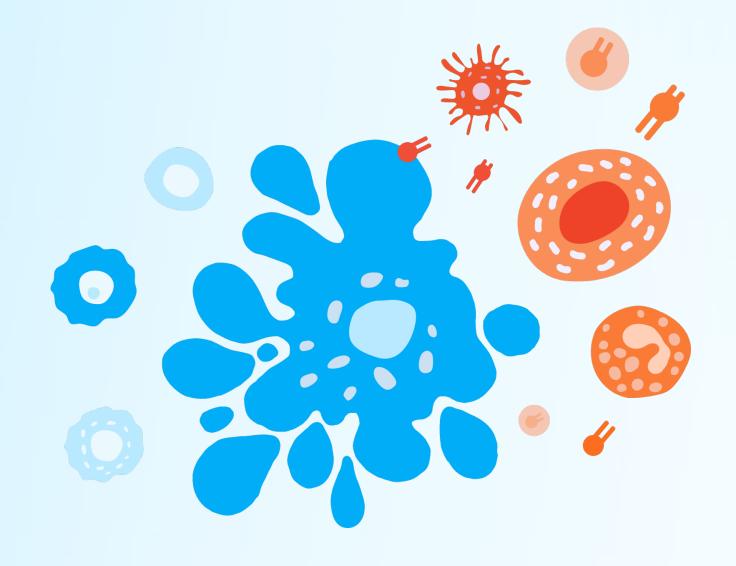


**Transforming Potential into Reality** 

## **I-Mab Biopharma**

**December 3, 2024** 



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#### **Transition to a US-Based Biotech Primarily Complete**



**Completed divestiture of China operations** 

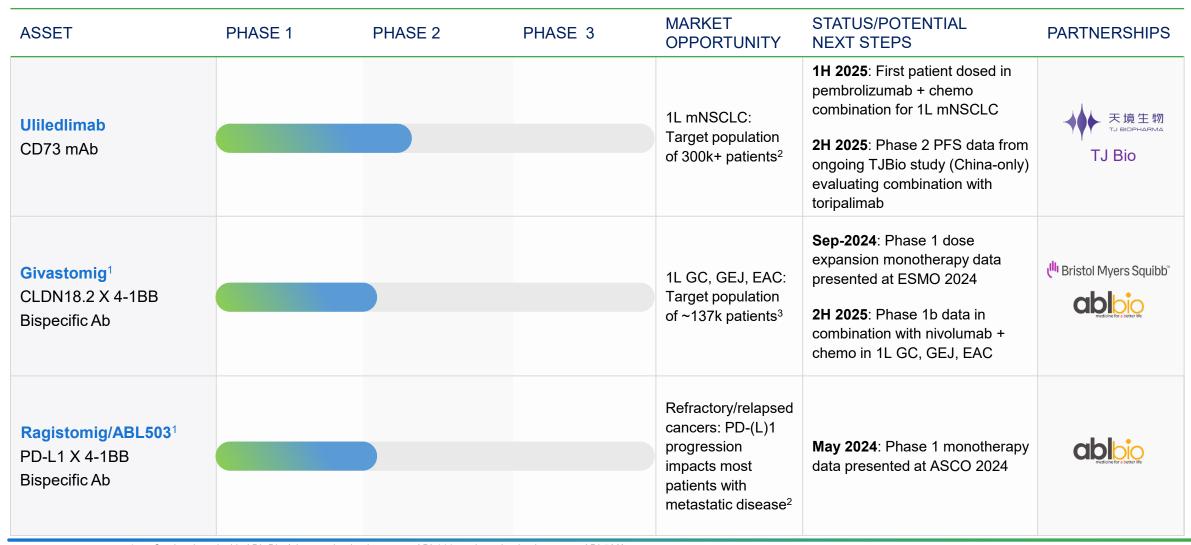
Streamlined organization with US leadership team

Executing on clinical strategy via disciplined capital approach

Defined clinical strategy for immunotherapeutic pipeline



### **Advancing a Differentiated Pipeline**





<sup>1.</sup> Co-developed with ABL Bio (givastomig also known as ABL111, ragistomig also known as ABL503)

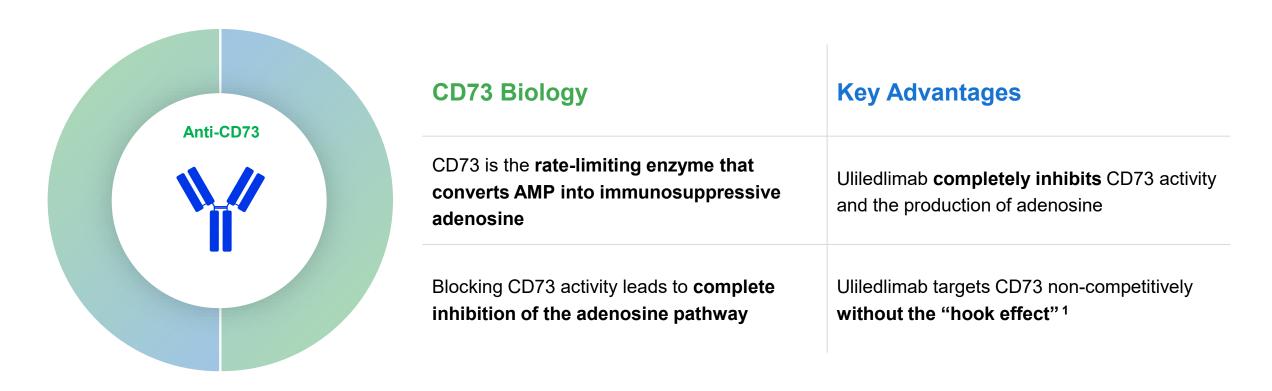
<sup>2.</sup> Global Data Epidemiology Data, Guidehouse legacy research

<sup>3.</sup> Kohei Shitara, et al, 2023 ASCO Annual Meeting (June 2-6), poster #4035; Markets include U.S., 5 E.U., and Japan based on Data Monitor Biomed Tracker

Notes: CPI = checkpoint inhibitors; mNSCLC = metastatic non-small cell lung cancer; PD-(L)1 refers to inhibitors of PD-L1 or PD-1; Ab = antibody; GC = gastric cancers; GEJ = gastroesophageal junction; EAC = esophageal adenocarcinoma cancer; 1L = first line; ASCO = the American Society for Clinical Oncology; PFS = progression free survival; ESMO = the European Society for Medical Oncology

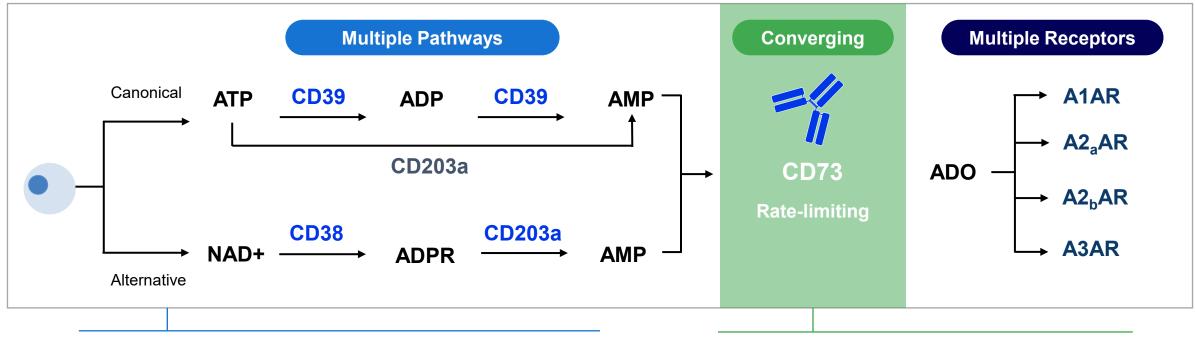
### **Uliledlimab (targeting CD73)**

Initial development focused on 1L mNSCLC with potential to expand across multiple indications in combination with immune checkpoint inhibitors





# CD73 is the Rate-Limiting Enzyme in the Adenosine Immunosuppression Pathway



All AMP pathways converge at CD73 to generate adenosine

#### Advantages of targeting CD73 for cancer therapy:

blocking CD73 activity leads to complete inhibition of the adenosine pathway.

Known potential escape pathways (ATP, cyclic AMP, and nicotinamide adenine dinucleotide through separate biochemical pathways) exist when targeting upstream CD39 or downstream adenosine receptors.

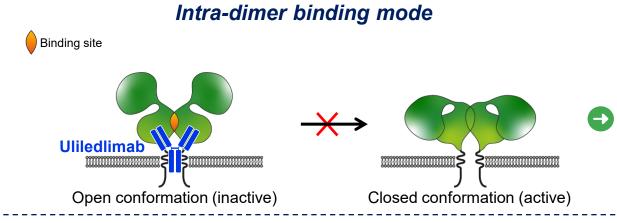


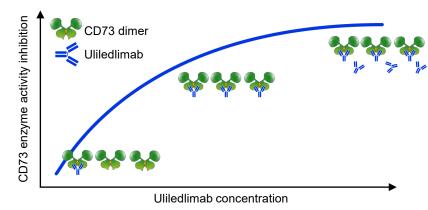
### **Uliledlimab: A Differentiated CD73 Antibody**

## Unique intra-dimer binding through a C-terminus epitope

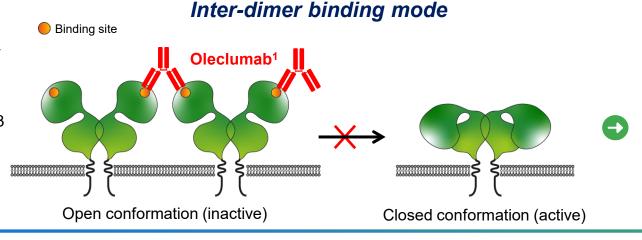
## Dose-dependent CD73 inhibition without the "hook effect"<sup>2</sup>

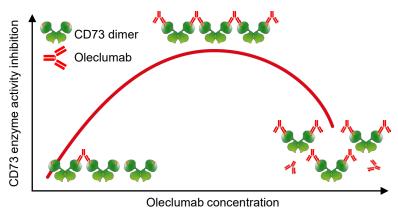
Uliledlimab inhibits CD73 by binding to the C-terminus and preventing CD73 dimerization





#### Oleclumab inhibits CD73 by binding to the N-terminus and preventing CD73 dimerization







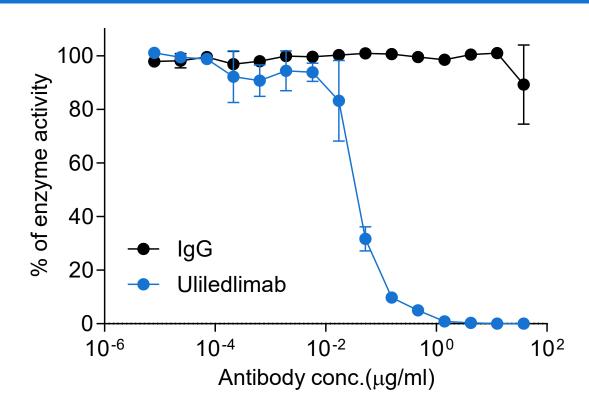
Oleclumab (MEDI9447) was internally produced based upon the published sequence
AACR 2021

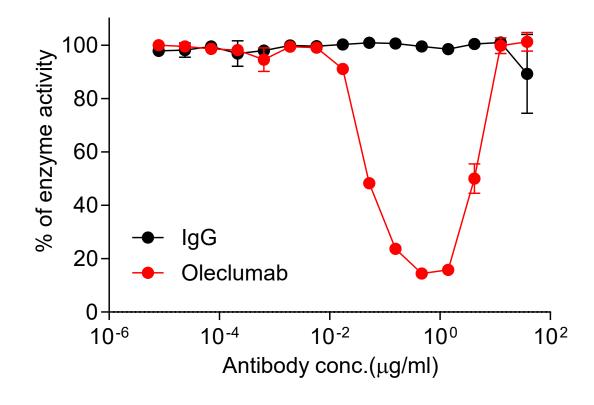
Source: I-MAB information on file

# Uliledlimab May Completely Inhibit CD73 Function *in vitro*, Whereas Competitor Antibody Does Not

Complete inhibition by intra-dimer binding mode

Partial inhibition by inter-dimer binding mode

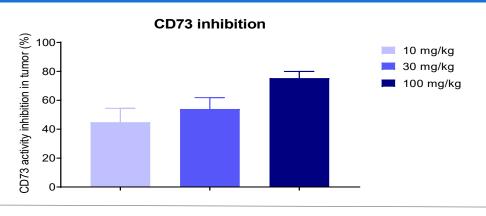


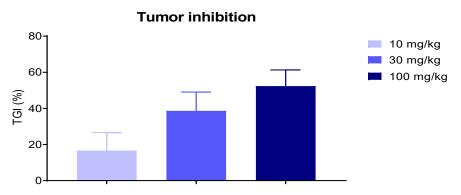


### Inhibition of CD73 Activity & Tumor Growth is Dose-Dependent for Uliledlimab

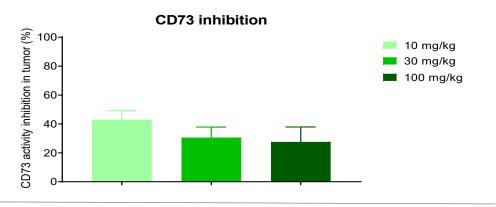
Dose-dependency not observed for oleclumab

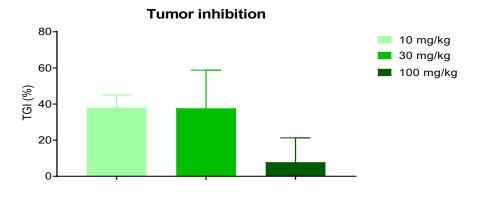
Inhibition of CD73 activity and tumor growth *in vivo* by uliledlimab is dose-dependent





Inhibition of CD73 activity and tumor growth *in vivo* is limited by oleclumab's hook effect biology







## Uliledlimab + Toripalimab Data Support Patient Selection Based on CD73 Expression and Show Manageable Toxicity

Phase 2 ORR data from front-line NSCLC Cohort*			
ORR% (n)	PD-L1 All	PD-L1 <u>≥</u> 1%	
CD73 <sup>High</sup>	53% (10/19)	63% (10/16)	
CD73 <sup>Low</sup>	18% (8/45)	20% (5/25)	
Pembro (KN-042) PD-L1≥1%	NA	27% (174/637)	

Safety observations for uliledlimab, administered to >200 patients in combination studies with CPIs

Safety profile of combination comparable to CPI monotherapy studies



Well tolerated up to the highest doses tested (45mg/kg Q3W), without MTD

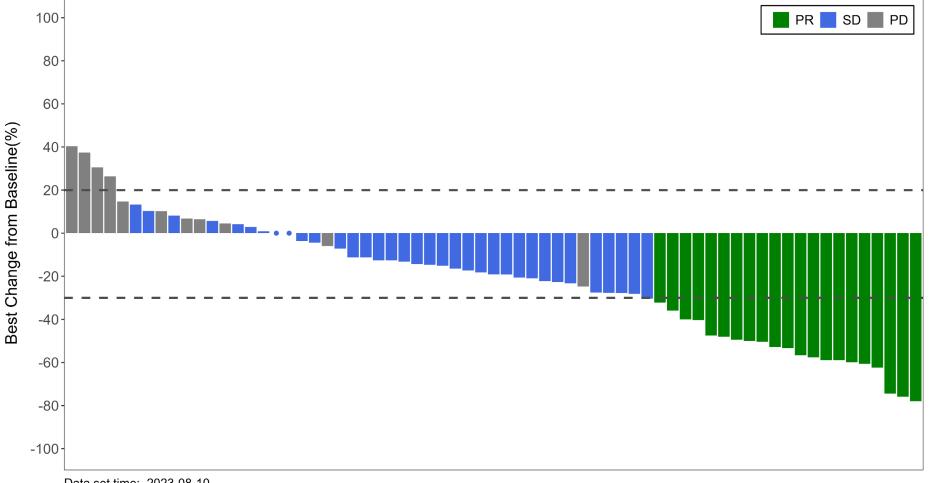
Most TRAEs/AEs were Grade 1 or 2



assessment per iRECIST. Overall study (up to n=190) enrolled 5 cohorts (3 NSCLC sub-types, 1 ovarian, 1 all comers): data in this deck are from the treatment naïve, Stage IV NSCLC patients

## **Early Phase 2 Data in Treatment-Naïve NSCLC Patients**

**Most Tumors Decrease** in **Size** 



Data set time: 2023-08-10

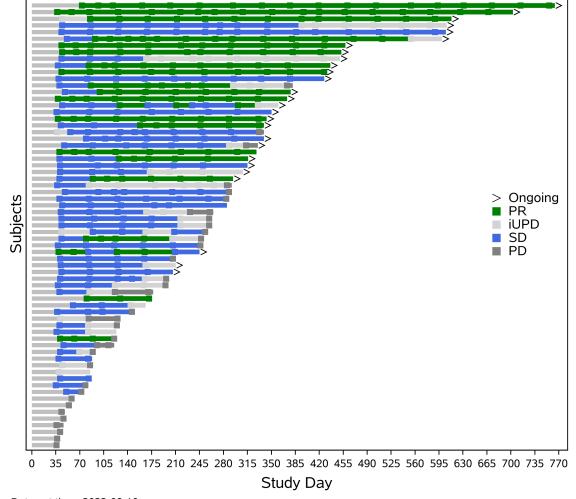
The circles indicate the BOR of the two subject, which are SD.



### **Most Responses are Durable**



**18 of 21** patients with an objective response remain on treatment with a median follow-up of 10.8 months



Data set time: 2023-08-10



### Rationale to Support Uliledlimab + Pembro + Chemotherapy in 1L mNSCLC

The addition of chemotherapy to IO monotherapy extends the benefit of IO to lower levels of PD-L1 expression

Uliledlimab has a **favorable toxicity profile** in combination with IO agents

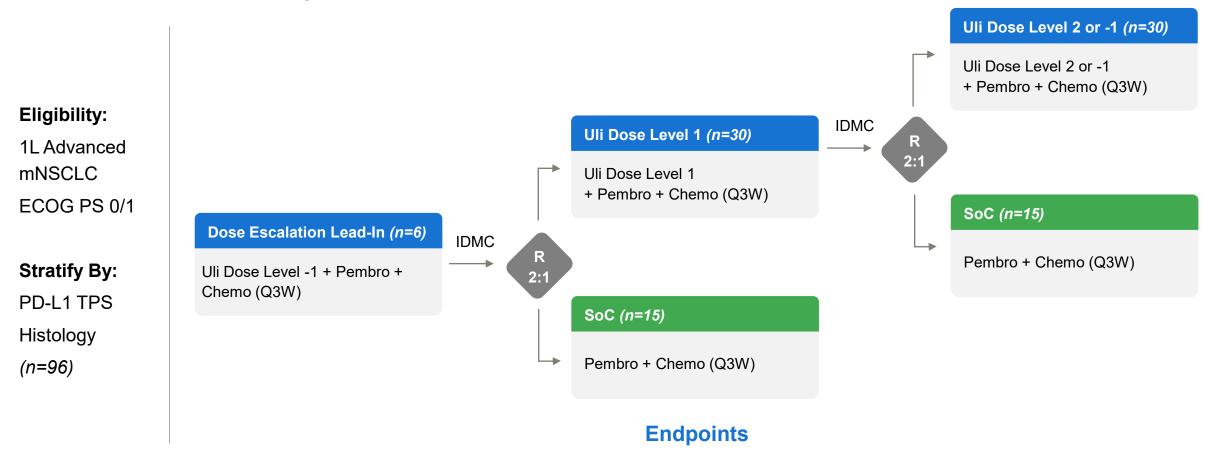
Chemotherapy induces CD73 expression suggesting additional benefit by combining uliledlimab with pembrolizumab + chemotherapy<sup>1</sup>

Based on this rationale, I-Mab plans to dose the first patient with **uliledlimab in combination with pembrolizumab + chemotherapy** in newly diagnosed patients with mNSCLC in 1H 2025



# Uliledlimab Development Plan: Randomized Study Design for Combination with Pembrolizumab + Chemotherapy

IND application cleared August 2024, on track to initiate enrollment in 1H 2025

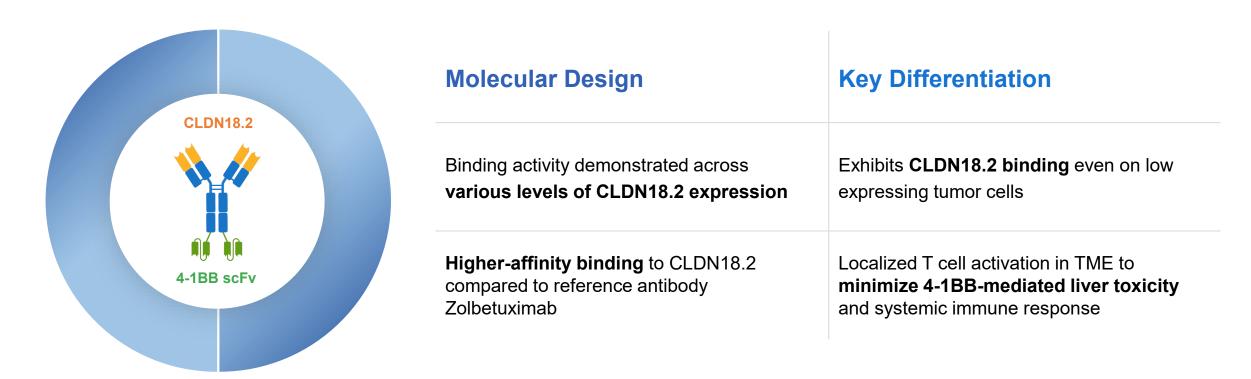


Primary: Safety, Efficacy (ORR) Secondary: PFS, DOR, OS



## Givastomig (targeting Claudin 18.2 and 4-1BB)

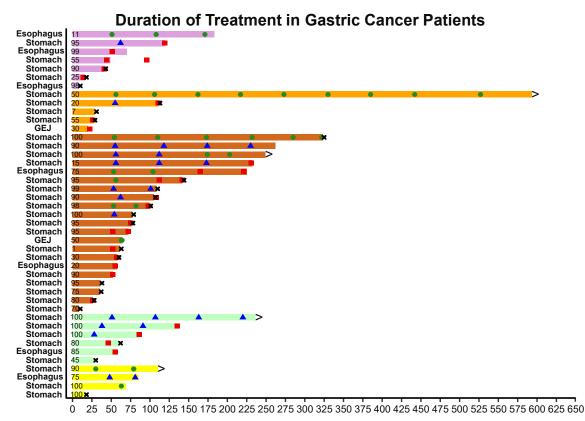
Ongoing combination studies with nivolumab + chemotherapy across a wide range of Claudin 18.2 levels



Unique bispecific Ab integrates Claudin 18.2 as a tumor engager and 4-1BB as a conditional T cell activator



## Phase 1 Monotherapy Responses in Heavily Pretreated Patients Provide Support for Further Studies



#### Study Days (C1D1 to End of Treatment Date)



#### **Patient Overview:**

- 43 efficacy evaluable patients with CLDN18.2+ GC/GEJ/EAC
- Three median lines of prior treatment (range 1-6); dosed at 5-18 mg/kg<sup>1</sup>
- Cohort is a subset of the Phase 1a (NCT04900818)

#### **Responses:**

- Seven partial response (PR) observed with an objective response rate (ORR) of 16.3% (7/43)
- Stable disease (SD) was reported in 14 patients, implying a disease control rate (DCR) of 48.8% (21/43)
- CLDN18.2 expression in responders ranged from 11% to 100%.
   Additionally, five responders had received prior treatment with PD-1 or PD-L1 inhibitors

#### **Conclusion:**

 Givastomig was well tolerated and exhibits monotherapy activity in heavily pre-treated GEC patients with a range of CLDN18.2 expression.



Defined as the predicted efficacious dosing range, based on preclinical studies Source: ESMO 2024

### **Safety: Treatment Related AEs**

Treatment-related adverse events (TRAEs) occurring in ≥5% (n=43)

Preferred Term (all numbers are n(%))	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	All Grades
Nausea	6 (14.0)	4 ( 9.3)	1 ( 2.3)	-	-	11 (25.6)
Anemia	2 ( 4.7)	5 (11.6)	3 (7.0)	-	-	10 (23.3)
White blood cell count decreased	4 ( 9.3)	3 (7.0)	3 (7.0)	-	-	10 (23.3)
Vomiting	4 ( 9.3)	2 ( 4.7)	1 ( 2.3)	-	-	7 (16.3)
Decreased appetite	3 (7.0)	2 ( 4.7)	1 ( 2.3)	-	-	6 (14.0)
Alanine aminotransferase increased	2 ( 4.7)	2 ( 4.7)	1 ( 2.3)	-	-	5 (11.6)
Aspartate aminotransferase increased	3 (7.0)	-	2 ( 4.7)	-	-	5 (11.6)
Gamma-glutamyltransferase increased	1 ( 2.3)	3 (7.0)	1 ( 2.3)	-	-	5 (11.6)
Neutrophil count decreased	1 ( 2.3)	3 (7.0)	1 ( 2.3)	-	-	5 (11.6)
Infusion related reaction	1 ( 2.3)	2 ( 4.7)	1 ( 2.3)	-	-	4 ( 9.3)
Lymphocyte count decreased	-	-	4 ( 9.3)	-	-	4 ( 9.3)
Fatigue	2 ( 4.7)	1 ( 2.3)	-	-	-	3 (7.0)
Headache	2 ( 4.7)	1 ( 2.3)	-	-	-	3 (7.0)
Hypoalbuminemia	2 ( 4.7)	1 ( 2.3)	-	-	-	3 (7.0)
Lipase increased	1 ( 2.3)	1 ( 2.3)	1 ( 2.3)	-	-	3 (7.0)
Platelet count decreased	1 ( 2.3)	1 ( 2.3)	-	1 ( 2.3)	-	3 (7.0)
Weight decreased	2 ( 4.7)	1 ( 2.3)	-	-	-	3 (7.0)

- No DLT was reported up to 15 mg/kg Q2W and 18 mg/kg Q3W, and MTD was not reached
- Most commonly reported TRAEs (>20% of subjects): Grade 1, 2 or 3 nausea (25.6%), anemia (23.3%), white blood cell count decreased (23.3%)
- 15 subjects (34.9%) experienced at least one Grade ≥ 3 TRAE. This included one Grade 4 TRAE of platelet count decreased and no Grade 5 TRAEs
- Most gastrointestinal TRAEs were Grade 1 or 2 and do not appear to be dose-related



# Givastomig Yields Better Monotherapy Responses in Patients with Low to High CLDN18.2 Expression Compared to Phase 1/2 Zolbetuximab Studies

Drug	Givastomig (bi-specific)	Zolbetuximab (CLDN 18.2 targeted mAb)	
Phase	Phase 1	Phase 1	Phase 2
CLDN18.2 – Expression of the Study Group	IHC ≥1+ in ≥1% cells	IHC ≥1+ in ≥1% cells	IHC ≥ <b>2</b> + <b>in ≥ 50%</b> cells
Diagnosis	Previously treated GC/GEJ/EAC	Previously treated GC/GEJ	Previously treated GC/GEJ/EAC
Efficacy Evaluable	43	15	43
ORR	<b>16%</b> (7/43)	Zero	9% (4/43)
DCR (CR+PR+SD)	<b>49%</b> (21/43)	1 SD	23% (10/43)
Source	Givastomig poster #1017P ESMO 2024	U Sahin et al. European Journal of Cancer 100 (2018) 17e26	O Tureci et al. Annals of Oncology 30: 1487–1495, 2019



## Potential Differentiations of Givastomig from Other Claudin 18.2 Targeted **Competitors**

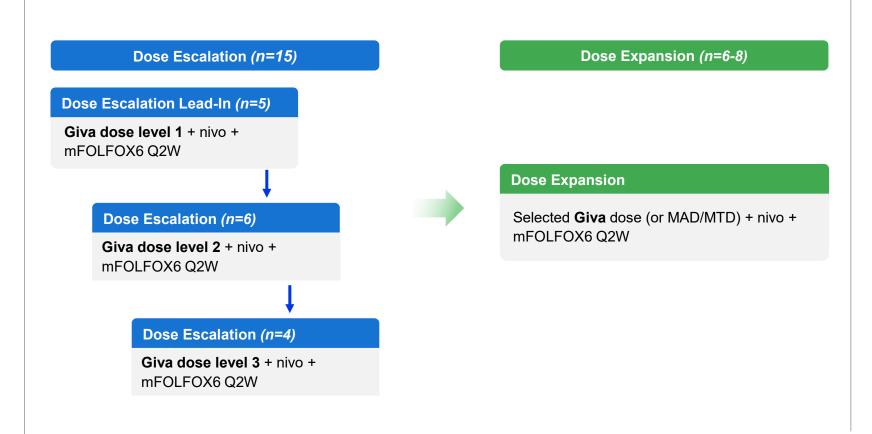
	Givastomig (bi-specific)	Zolbetuximab (mAb) <sup>1</sup>	CMG901 (ADC) <sup>2</sup>
Mechanism of Action	CLDN18.2 dependent T cell activation in tumor  4-1BB agonism to increase T cell expansion in tumor and reinvigorate exhausted T cells  Bi-specific antibody designed to have conditional 4-1BB activation	Direct killing of CLDN18.2 tumor cells by ADCC may also release the tumor antigen	CLDN18.2 targeted chemotherapy and direct killing by ADCC  Lysis of tumor cells by toxin can release the tumor antigen to mediate immune response
Efficacy	~16% monotherapy ORR in previously treated CLDN18.2 + GC/GEJ/EAC	~10% monotherapy ORR in previously treated CLDN18.2 + GC/GEJ/EAC <sup>1</sup>	33% monotherapy ORR in previously treated CLDN18.2 + GC/GEJ
Safety	<5% Grade 3 neutropenia <5% Grade 3 vomiting	22% Grade 3 vomiting <sup>1</sup>	20% Grade 3+ Neutropenia 10% Grade 3 vomiting <sup>3</sup>
Claudin 18.2 Targetable Expression	Extending to low levels of expression due to high affinity binding to CLDN18.2	Limited to targeting higher CLDN- expressing tumors	Likely limited to targeting high CLDN- expressing tumors



# Givastomig Development Plan: Phase 1b Study Design for Combination with Nivolumab + Chemotherapy

#### **Eligibility:**

1L unresectable or metastatic GC/GEJ/EAC HER2 negative CLDN 18.2 ≥1+ on ≥1% of tumor cells



#### **Endpoints:**

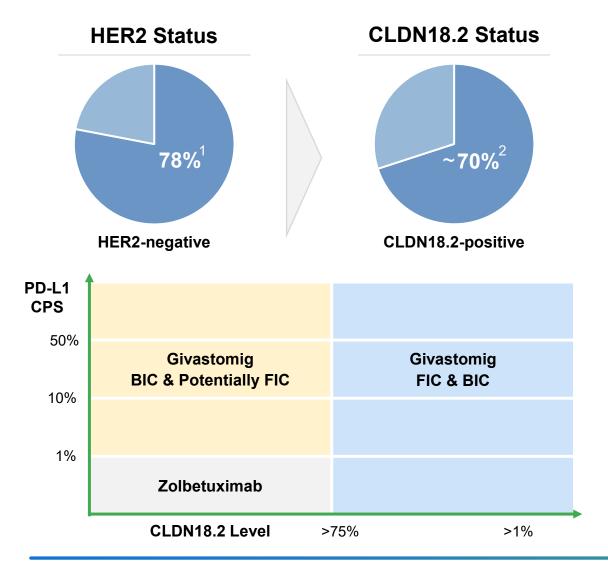
**Primary:** Safety

Secondary: ORR, PK/PD, BoR, DoR,

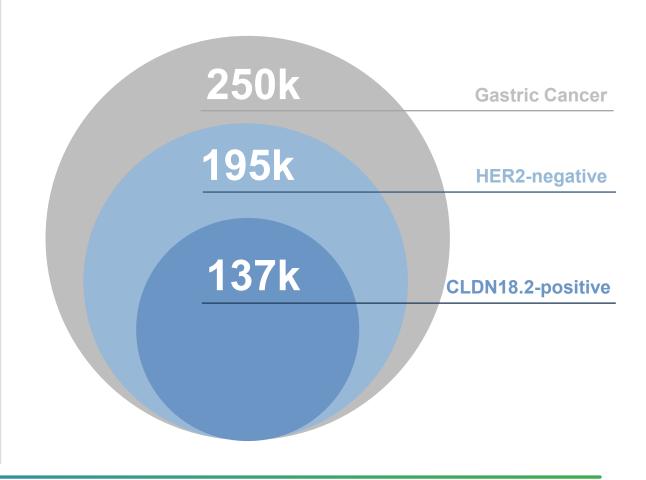
PFS, OS



#### **CLDN18.2 1L Gastric Cancer Market Opportunity**



## Approximately 250,000 patients diagnosed with gastric cancers globally<sup>3</sup>





<sup>.</sup> Van Cutsem E, Bang YJ, Feng-Yi F, et al. HER2 screening data from ToGA: targeting HER2 in gastric and gastroesophageal junction cancer. Gastric Cancer 2015;18(3):476-84. Kohei Shitara, et al., 2023 ASCO Annual Meeting (June 2-6), poster #4035

Markets include U.S., 5 E.U., and Japan based on Data Monitor Biomed Tracker

# Unique Bispecific Design Properties and Monotherapy Data in Gastric Cancers May Position Givastomig as Best-in-Class Claudin 18.2 bispecific

Unique Design to Enable Potential Wide Use Plus Favorable Initial Safety Profile

**Bispecific design** results in **CLDN18.2 conditional 4-1BB and T cell activation**, potentially limiting toxicity and inducing long-lasting immune memory response

Phase 1 dose escalation reached highest planned dose without encountering DLT or liver toxicity signals

Encouraging Responses in Previously Treated Patients, Including Those with Low CLDN18.2 Expression Levels

**Objective responses** seen in patients with gastric and esophageal cancer who had received multiple lines of prior treatment, including PD-(L)1, and exhibited low levels of CLDN18.2 expression

Response rate and tolerability supports combination in 1L SoC regimens

Dose Expansion Data and New Nivolumab + Chemotherapy Combo Study Ongoing

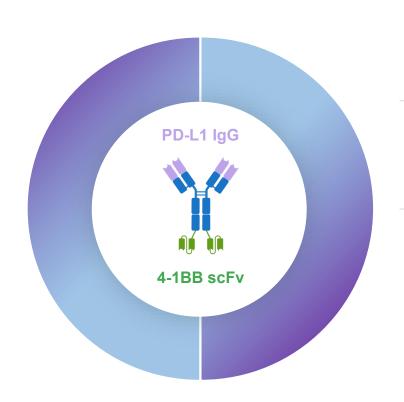
**New dose expansion in combination with nivolumab + chemotherapy cohort** study began in 1Q 2024 in treatment naïve patients with gastric cancers

**Updated monotherapy dose expansion data** in CLDN18.2+ patients with gastric cancers whose disease has progressed after previous treatment was presented at ESMO 2024



## Ragistomig (ABL503/TJ-L14B, targeting PD-L1 and 4-1BB)

A novel bispecific integrates PD-L1 as a tumor engager and 4-1BB as a conditional T cell activator



#### Molecular Design Target Drug Profile

Molecule binds to PD-L1 to **inhibit PD-1/PD-L1 interaction** 

- Targeting PD-L1+ tumor cells
- Blocking PD-L1/PD-1 immune inhibitory signaling

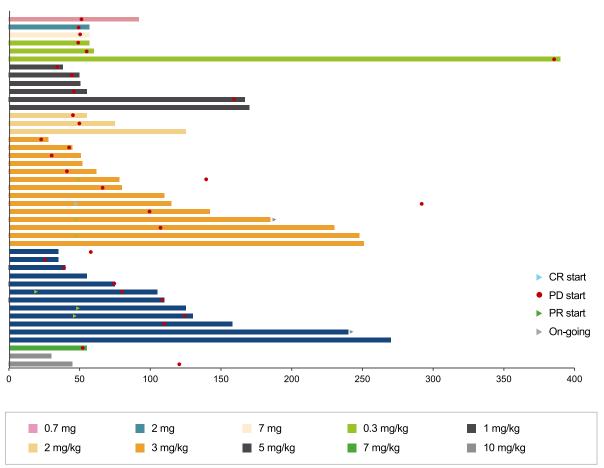
- PD-L1-dependent **4-1BB activation** at the tumor site
- Potent tumor-directed 4-1BB activation to enhance anti-tumor immunity
- Enhances anti-tumor immunity and re-invigorates exhausted T cells<sup>1</sup>
- Localized 4-1BB activation in TME to mitigate liver toxicity and systemic immune response

Phase 1 efficacy data presented at ASCO 2024<sup>2</sup>



## Phase 1 Data Support Further Development as a Monotherapy and in Combination with Other Agents





#### **Overview:**

- 44 efficacy evaluable patients (53 enrolled) with advanced or relapsed/refractory solid tumors (NCT04762641)
- 64.2% (34/53) of patients enrolled had at least three prior lines of systemic anti-cancer treatment

#### Efficacy Results at 3 and 5 mg/kg Q2W:

- Objective Response Rate (ORR) of 26.9% (7/26), Clinical Benefit Ratio (CBR) of 69.2% (18/26)
- One CR, six PRs, eleven SDs
- 71.4% of responders had received prior anti-PD-(L)-1 inhibitors
- The CR was observed in a heavily pretreated ovarian cancer patient dosed at 3 mg/kg (seven lines of prior therapy)

#### **Conclusion:**

Compelling clinical data in checkpoint inhibitor relapsed/refractory and IO naïve patients



### **Manageable Safety Profile**

4 D J 500 (I D	All patients (N = 53)		
ABL503 monotherapy Demography	All grades, n(%)	Grade ≥ 3, n(%)	
Any TRAE	40 (75.5)	22 (41.5)	
TRAE occurring in ≥ 10% of patients			
Alanine aminotransferase increased	17 (32.1)	12 (22.6)	
Aspartate aminotransferase increased	16 (30.2)	11 (20.8)	
Pyrexia	8 (15.1)	1 (1.9)	
Nausea	7 (13.2)	-	
Rash	7 (13.2)	2 (3.8)	
Fatigue	6 (11.3)	1 (1.9)	
Platelet count decreased	6 (11.3)	1 (1.9)	

- MTD established with 7 mg/kg every two-week dosing
- Most common TRAEs were increased ALT and increased AST
- None of the transaminase elevations were accompanied by clinically significant, treatmentrelated bilirubin increases
- Grade ≥ 3 ALT or AST increases occurred in 24.5% (13/53) of patients and improved with corticosteroids or ragistomig treatment interruption
- No cytokine release syndrome occurred, and one infusion-related reaction occurred at 5 mg/kg (Grade 2)



## Ragistomig Results Compared to Acasunlimab Phase 1

	Ragistomig (ABL503)	Acasunlimab (GEN1046)
Phase	<b>Phase 1</b> ( <u>NCT04762641</u> )	<b>Phase 1</b> ( <u>NCT03917381</u> )
Treatment	Monotherapy 0.7 mg – 10 mg/kg, Q2W	Monotherapy 25 – 1,200 mg, Q3W
Diagnosis	Advanced or refractory solid tumors	Advanced or refractory solid tumors
Efficacy Evaluable	<b>26</b> (sum of 3 mg/kg and 5 mg/kg)	61 (25 – 1,200 mg) 30 (80 – 200 mg)
ORR	<b>26.9%</b> (7/26)	<b>6.6%</b> (4/61) <b>13.3%</b> (4/30, 80 – 200 mg)
DCR (CR+PR+SD)	<b>69.2%</b> (18/26)	<b>65.6%</b> (40/61)
Safety	Grade 3 AST / ALT: 24.5% (13/53)	Grade 3 AST / ALT: 10%
Source	Ragistomig poster ASCO 2024	Cancer Discovery 2022



### **Financial Information and Upcoming Milestones**

#### **Selected Financial Information**

Cash, cash equivalents and short-term investments as of September 30, 2024, were \$184.4M

**Expected cash runway into 2027** supporting multiple potential inflection points

Issued and outstanding ordinary shares of 187.5M representing the equivalent of 81.5M ADSs<sup>1</sup>

#### **Recent and Anticipated Upcoming Milestones**

Timing	Program	Milestone
Sep-2024	givastomig	Updated Phase 1 dose expansion data at ESMO 2024 Monotherapy (CLDN18.2+ patients with GC, GEJ, EAC) data
1H 2025	uliledlimab	First patient dosed in Phase 2 Randomized study in combination with pembrolizumab + chemo
2H 2025	uliledlimab	Phase 2 PFS data from uliledlimab + toripalimab Randomized study (TJ Bio China-only data)
2H 2025	givastomig	Phase 1b in combination with nivolumab + chemo Safety and ORR data in 1L GC, GEJ, EAC





## **I-Mab Biopharma**

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