## obpro

**Corporate Presentation** 

OCT 2024



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The foregoing list of factors is not exhaustive. You should carefully consider the foregoing factors and the other risks and uncertainties described in the "Risk Factors" section of ACAB's Registration Statement on Form S-1 filed on December 2, 2021 (as amended), ACAB's Annual Report on Form 10-K for the year ended December 31, 2023, ACAB's Quarterly Reports on Form 10-Q for the quarters ended March 31, 2024 and June 30, 2024, the Registration Statement (as defined below) and the proxy statement/prospectus to be contained therein and the other documents filed by ACAB from time to time with the U.S. Securities and Exchange Commission (the "SEC"). These filings identify and address other important risks and uncertainties that could cause actual events and results to differ materially from those contained in the forward-looking statements. Forward-looking statements speak only as of the date they are made. 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This document relates to the Proposed Business Combination between Abpro and ACAB. ACAB filed a registration statement on Form S-4 relating to the Proposed Business Combination (the "Registration Statement") which will includes a proxy statement/prospectus of ACAB. The proxy Statement/prospectus will be sent to all ACAB and Abpro stockholders. ACAB will also file other documents regarding the Proposed Business Combination with the SEC. Before making any voting decision, investors and security holders of ACAB and Abpro are urged to read the Registration Statement, the proxy statement/prospectus contained therein, and all other relevant documents filed or that will be filed with the SEC in connection with the Proposed Business Combination as they become available because they will contain important information about the Proposed Business Combination. Investors and security holders will be able to obtain free copies of the proxy Statement/prospectus and all other relevant documents filed or that will be filed with the SEC by ACAB through the website maintained by the SEC at www.sec.gov. In addition, the documents filed by ACAB may be obtained free of charge by written request to ACAB at Atlantic Coastal Acquisition Corp. II, 6 St. Johns Lane, Floor 5, New York, New York, 10013

#### Participants in Solicitation

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Please see the Appendix for the accompanying non-GAAP reconciliations.

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abpro

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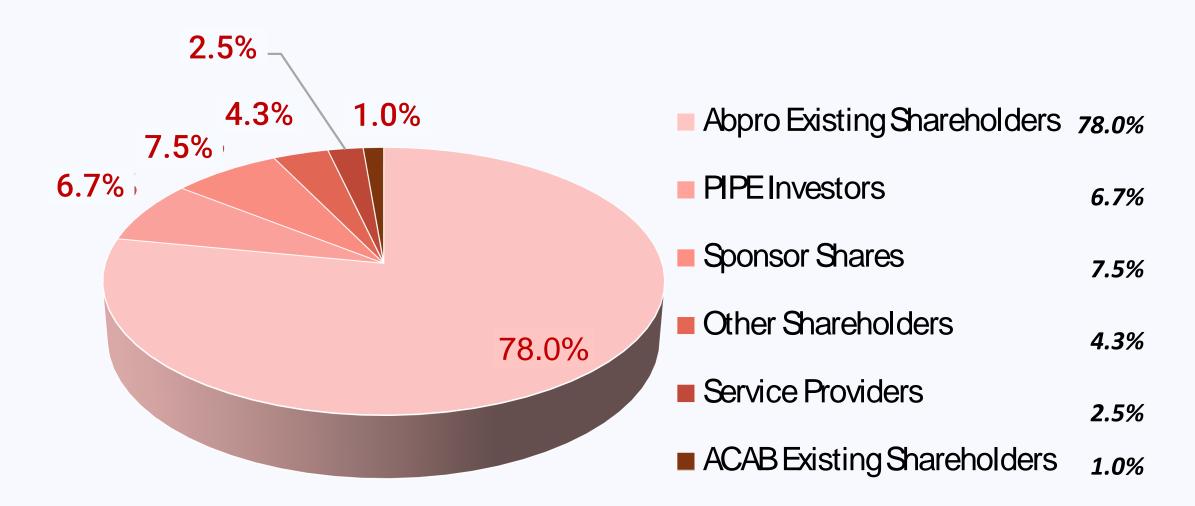


### **Transaction Overview**

Atlantic Coastal Acquisition Corp. II (NASDAQ: ACAB) plans to conduct a business combination with Abpro Corporation ("Abpro") at a purchase pric approximately \$500 million

- Transaction expected to be funded through a combination of \$6.4 millio PIPE financing and an estimated \$6.2 million ACAB cash in trust
- 100% equity rollover by Abpro shareholders, representing an expected ~ of the Pro Forma Equity Value
- Net proceeds are expected to fund operations of Abpro, including R&D e and clinical development of two lead programs
- Targeted transaction close is expected Q4 2024, subject to customary c conditions and approvals

#### **Illustrative Pro Forma Ownership**



rice of	Pro Forma Valuation at Close	
	(USD millions, except for share data)	
ion	Pro-Forma Shares Outstanding	50.5m
~78%	Share Price	\$10.00
	Pro-Forma Equity Value	\$505.2
efforts		
	(-) Cash to Balance Sheet	\$8.9
closing	Pro-Forma Enterprise Value	\$496.3

#### Sources & Uses

Sources (USD millions)	
Abpro Equity Rollover	\$394.1
Cash in Trust	\$6.2
PIPE Financing	\$6.4
Total Sources	\$406.7

<b>Uses</b> (USD millions)	
Abpro Equity Rollover	\$394.1
Cash to Balance Sheet	\$8.9
Estimated Transaction Fees	\$3.7
Total Uses	\$406.7





### **Investment Highlights**

#### **Proprietary Antibody Platform**

- Antibody Discovery: DiversImmune<sup>®</sup>
- Antibody Engineering: MultiMab<sup>TM</sup>

#### **Development & Commercialization Partnerships Established**

- Celltrion, Inc. (KRX: 068270)
  - Fully funding development of ABP-102
  - Up to \$1.75B in total payments to Abpro
- Abpro Bio<sup>1</sup>

1 Abpro Bio Co. Ltd (KOSDAQ: 195990), through its subsidiary Abpro Bio International, Inc.,

#### **Robust Therapeutic Pipeline of Next Generation Candidates**

#### <u>Candidate</u>

- ABP-102(HER2/CD3)
- ABP-201(VEGF/ANG2)
- ABP-110(GPC3/CD3)
- ABP-150(Claudin18.2/CD3)

Indication

Breast and gastric cancer Wet AMD and DME

Liver cancer

Gastric cancer

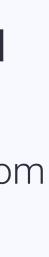
102 Abprc

### **Experienced Leadership Team and World Class Boards**

- Industry leaders with wealth of experience from top industry organizations
- Team with extensive biotechnology experience







### **Experienced Leadership Team**



Ian Chan, MBA CEO, Co-founder

Brown AB; Harvard MBA

**U.S. GENOMICS** pioneers in single molecule biology

MorganStanley





Eugene Chan, MD Chairman, Co-founder

Harvard AB; Harvard MD







U.S. GENOMICS pioneers in single molecule biology

#### abpro



Miles Suk Co-CEO, Board Member

Michigan State U, BS







Robert Markelewicz, MD Chief Medical Officer

Brown ScB, MMSc, MD







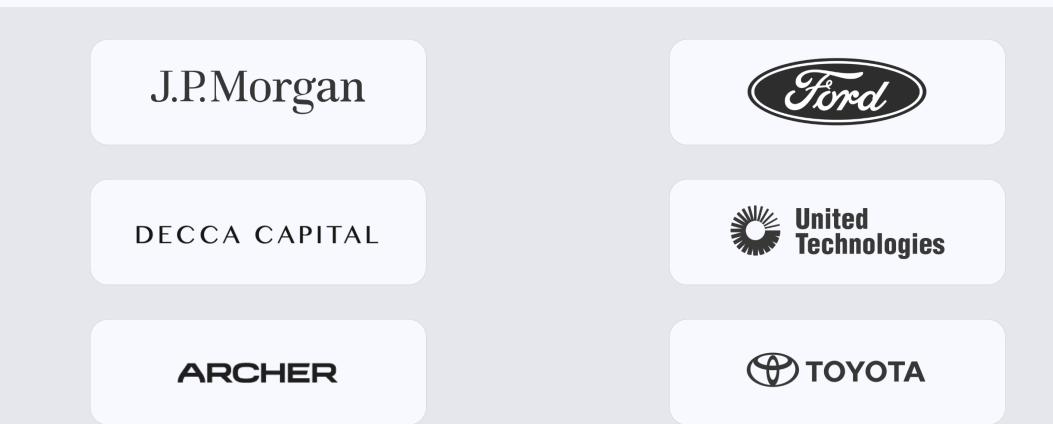
### **Atlantic Coastal Management Team**



Shahraab Ahmad Chairman, CEO



Burt Jordan President





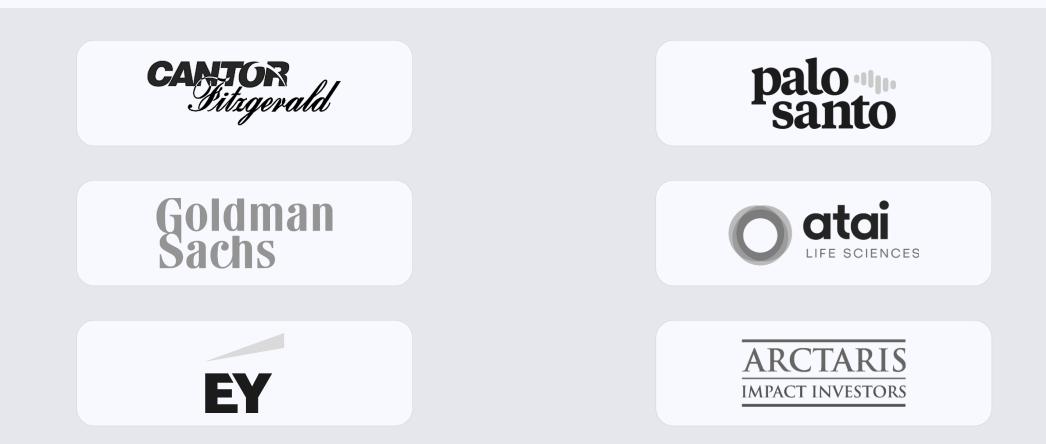




Jason Chryssicas CFO



Tony Eisenberg CSO









### **Experts on Boards**



#### **Robert Langer, PhD<sup>1</sup>**

David H. Koch Institute Professor, MIT; Founder of Moderna, BIND, Momenta, AIR, others





#### George Tsokos, MD<sup>2</sup>

Professor of Medicine, Beth Israel Deaconess Medical Center

Professor of Medicine, Harvard Medical School and Massachusetts General Hospital



Laurie Glimcher, MD<sup>2</sup> Former President and CEO, Dana-Farber Cancer Institute



Shiv Pillai, PhD<sup>2</sup>



Ron Levy, MD<sup>2</sup> Professor and Chief, Division of Oncology, Stanford School of Medicine



#### Steven Schnittman, MD, PhD<sup>2</sup>

Infectious Disease Specialist; Ex-NIH/Chief HIV Division; Ex-VP BMS





### **Pipeline with Next Generation Candidates**

INDICATION	PROGRAM	TARGET	PRECLINICAL	IND-ENABLING	PHASE 1	PHASE 2	PHASE 3	TOTA ADDRESS/ MARKE
DME/Wet AMD	ABP-201	Anti-VEGF/ANG2						\$10.4 Bi
Breast, Gastric Cancer	ABP-102	Anti-HER2/CD3						\$12.1 Bi
Liver Cancer	ABP-110	Anti-GPC3/CD3						\$12.9 Bill
Gastric Cancer	ABP-150	Anti- CLAUDIN18.2/CD3						\$13.11 Bi

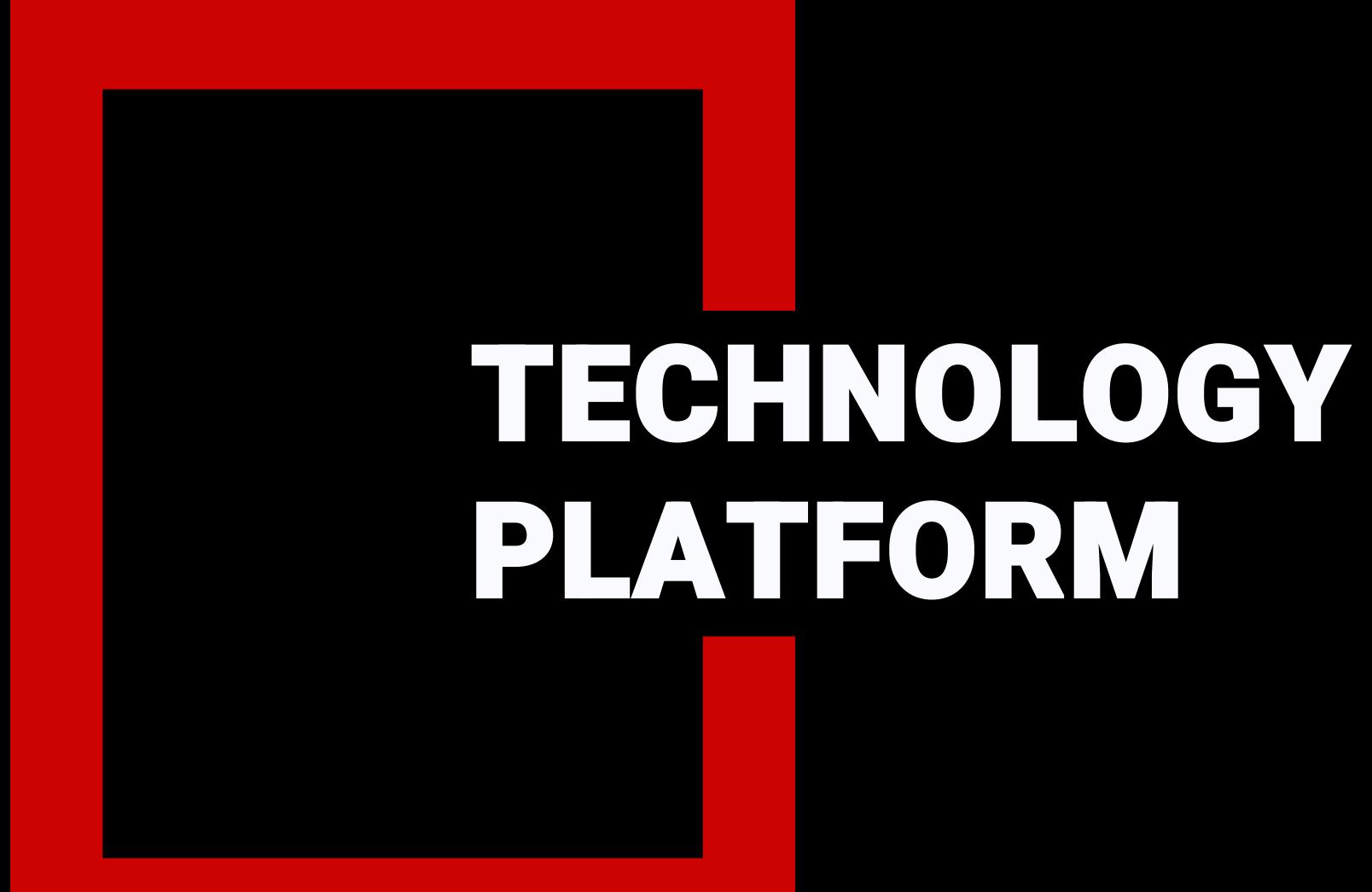
<sup>1</sup> Prescient and Strategic Intelligence, Wet Age-Related Macular Degeneration Market Overview, March 2019.

- <sup>2</sup> Research and Markets, Global HER2+ Breast Cancer Market Will Expand to 12.1 Billion in 2030, September 21, 2021.
- <sup>3</sup> SNS Insider, Liver Cancer Therapeutics Market to Surpass USD 12,910.02 Million by 2030 Driven by Rising Incidence of Liver Cancer and Advancements in Early Diagnosis, October 25, 2023. <sup>4</sup> Data Bridge Market Research, Global Gastric Cancer Market - Industry Trends and Forecast to 2029, September 2022.













### **Diversimmune<sup>®</sup> Discovery Platform**

Creates antibody therapies against traditionally difficult targets

Validated by global pharma and research institutions Proven in **300+** campaigns during early years of development



Key role in SAP program via platform for GSK SAP amyloid program in Phase 2

Preclinical results published in:





The NEW ENGLAND **OURNAL** of **MEDICINE**  Immunization



Optimization



Diversification



#### **Features:**

#### **Rapid Generation**

Proprietary antibody discovery platform that seeks to swiftly produce a diverse array of antibodies

#### Target Variety $\bullet$

Targets both clinically validated and novel targets

#### **Overcoming Challenges**

Targets traditionally difficult-to-access antigens

#### **Drug-Like Properties**

Seeks to ensure generated antibodies possess characteristics conducive to therapeutic development

#### Create "Building-Blocks"

Seeks to deliver functional antibody building blocks with exceptional affinity and specificity to address diseasespecific challenges











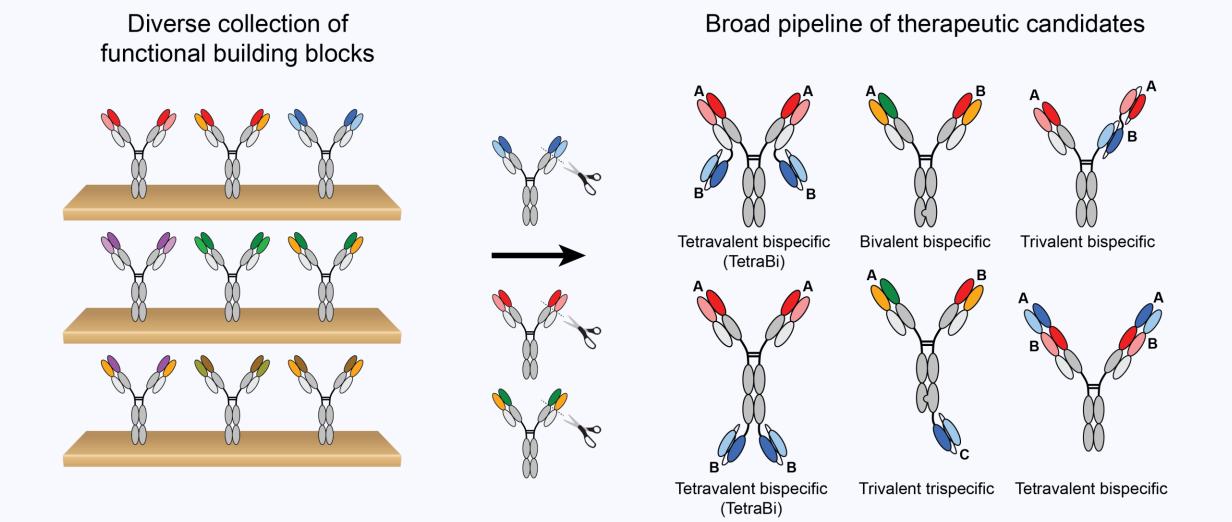






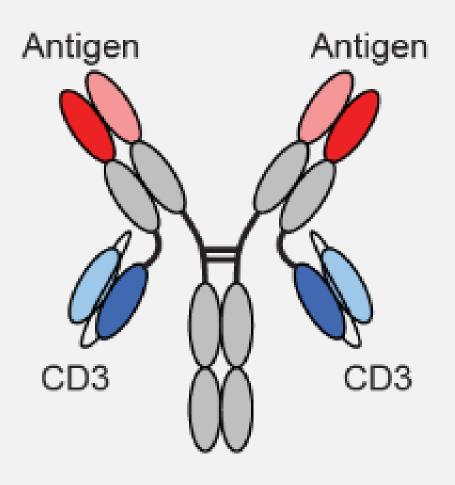
### MultiMab<sup>TM</sup> Antibody Engineering **Platform and TetraBi Format**

Enhancing efficacy and safety: fine-tuning antibody product formats for optimal results



#### **Anticipated Advantages of TetraBi Format:**

- Bivalent binding to TAA<sup>1</sup> for potentially increased efficacy
- Fc modification for reducing toxicity and increasing antibody half life
- Flexible configuration for increased safety and/or maximized efficacy
- Symmetrical structure for streamlined manufacturing

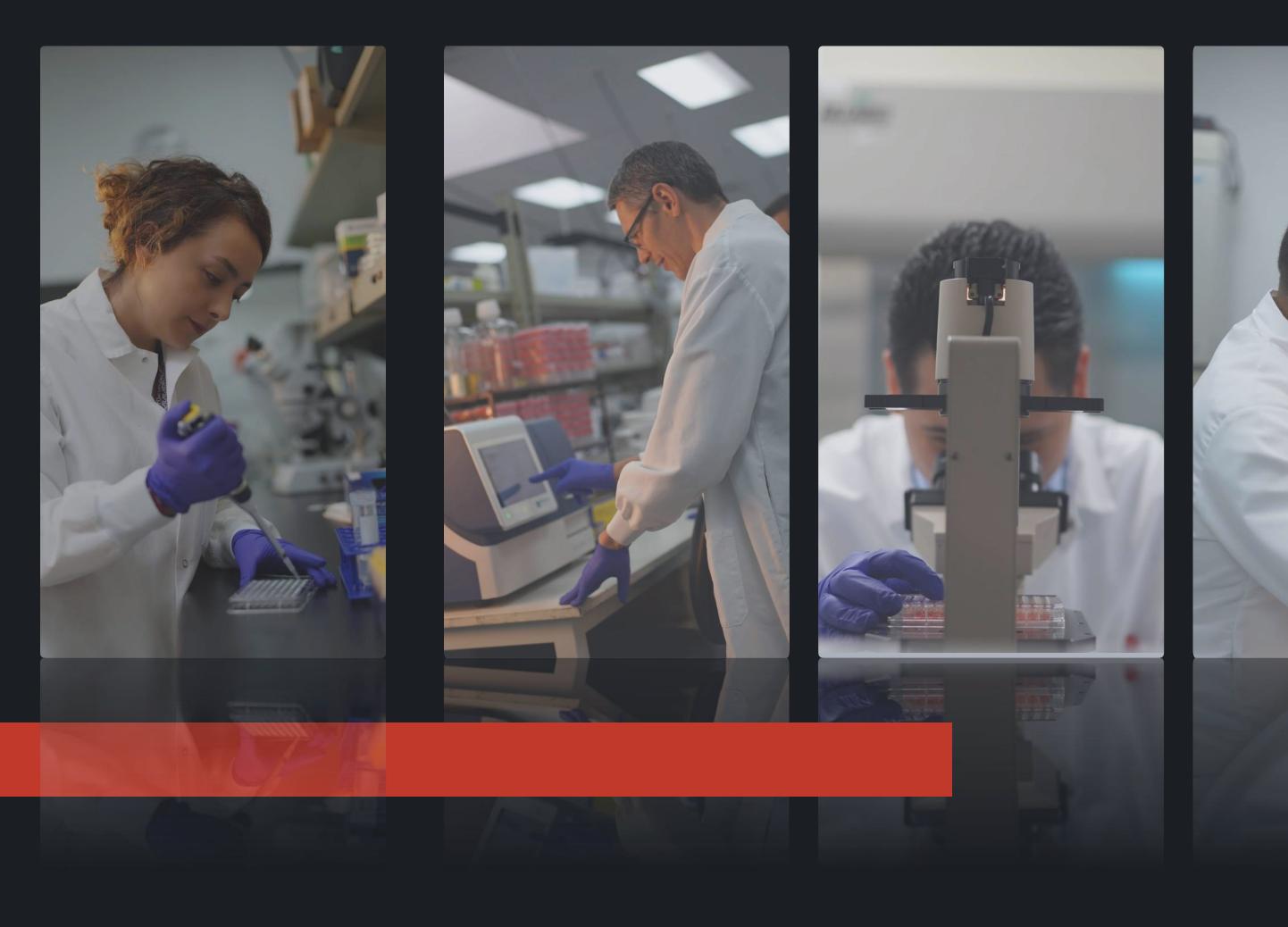








## LEAD PROGRAMS



- ABP-102
- ABP-201













## 

### HER2/CD3 T-Cell Engager

Treatment for HER2+ Breast Cancer & Gastric Cancer



### **ABP-102: Strategic Partnership** with Celltrion

Leading biopharmaceutical company headquartered  $\bigcirc \bigcirc$ CELLTRION in Incheon, South Korea; KRX: 068270

#### **Anticipated Development Plan**

- Investigational New Drug (IND) enabling studies underway
  - Preliminary cyno tox study completed
- 2H 2025: File IND application and Initiate Phase 1/2 clinical trial  $\bullet$

#### Indication:

Progressive HER2+ Breast and Gastroesophageal Adenocarcinomas

#### **Design**:

First-In-Human, multicenter, open-label, single-agent, Phase 1/2 trial

### **Global Development & Commercialization Partnership** Highlights

### **Fully Funded**

• Celltrion funds all development costs, including preclinical and clinical studies

### \$1.75**B**

• Abpro to receive payments up to \$1.75B, including equity investment, development/commercial milestone payments

#### **50%**<sup>1</sup>

 Abpro retains a 50% share of profits worldwide



<sup>&</sup>lt;sup>1</sup>The proceeds from commercialization are subject to a 50/50 profit split. Amounts that may be paid by third party collaborators, for example upfronts, milestones and/or royalty payments from territorial commercialization partners, are also subject to a 50/50 split. Following commercial approval of ABP-102, we have agreed to reimburse Celltrion 250% of its direct and certain indirect costs and expenses incurred through first commercial sale. Celltrion is entitled to offset amounts otherwise due to us under the agreement until our share of these costs has been paid back; provided that we are entitled to a minimum 25% of profit from commercial sales and from third party collaborators regardless of the amount of unreimbursed development costs outstanding (and then 50% once the reimbursement has been made in full). In addition, we are entitled to up to over \$1.75 billion in development and sales milestones. We are responsible for world-wide patent prosecution, with Celltrion reimbursing 50% of our out-of-pocket costs.

### **Addressing Unmet Needs in HER2+ Cancers Treatment: ABP-102 Competitive** Landscape

### \$12.1 billion

Projected global HER2+ market size by 20301

### **Development Fully Funded**

By collaboration partner Celltrion

### **Potential Competitive Advantages:**

- population

Current HER2-directed therapies have demonstrated increased chemical off target toxicity (e.g. TKIs and ADCs) and/or reduced efficacy from drug resistance or limited potency requiring combination with chemotherapy (i.e.: mAbs), especially in the relapsed and refractory disease

• ABP-102 was designed to overcome these challenges as a single-agent therapy that potently engages the patient's natural immune system without toxic chemicals to directly target and destroy the tumor

### Potential benefits of ABP-102 in immunooncology

Activating T cells to kill tumor cells ullet

TetraBi antibody targets HER2 on tumor cells and CD3 on T cells

**Reduce activity on -low or negative** • **HER2 cells for safety** 

selectively targets HER2-high and intermediate expressing cells

May improve clinical efficacy •

by inducing T cell infiltration into HER2+ tumors, potentially targeting various solid tumors with HER2 overexpression.

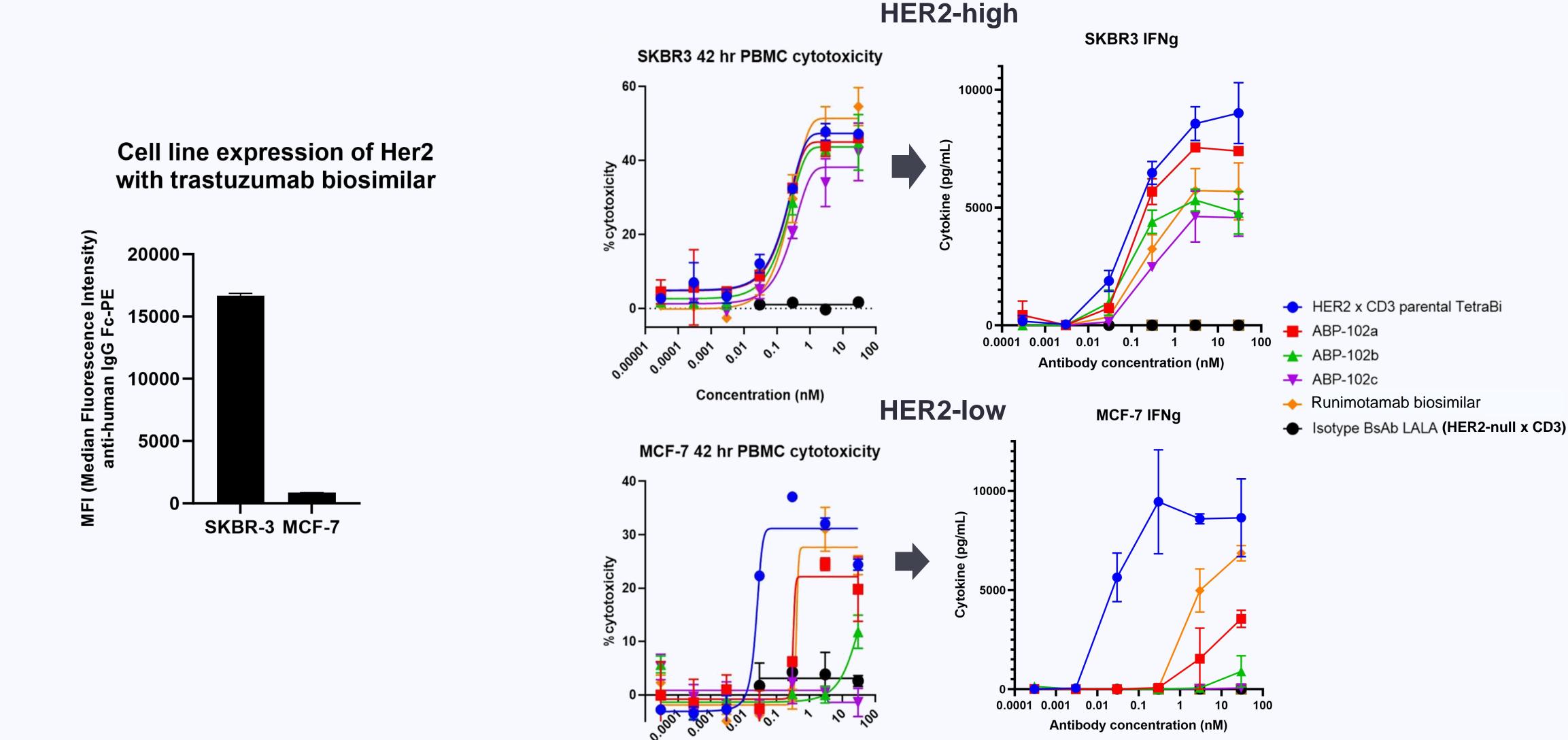
Enhances binding, selectivity for tumor cells, potency, and therapeutic index

with Dual HER2 binding sites



#### 17

### **ABP-102: Potent killing of HER2-high** but not HER2-low target cells in vitro



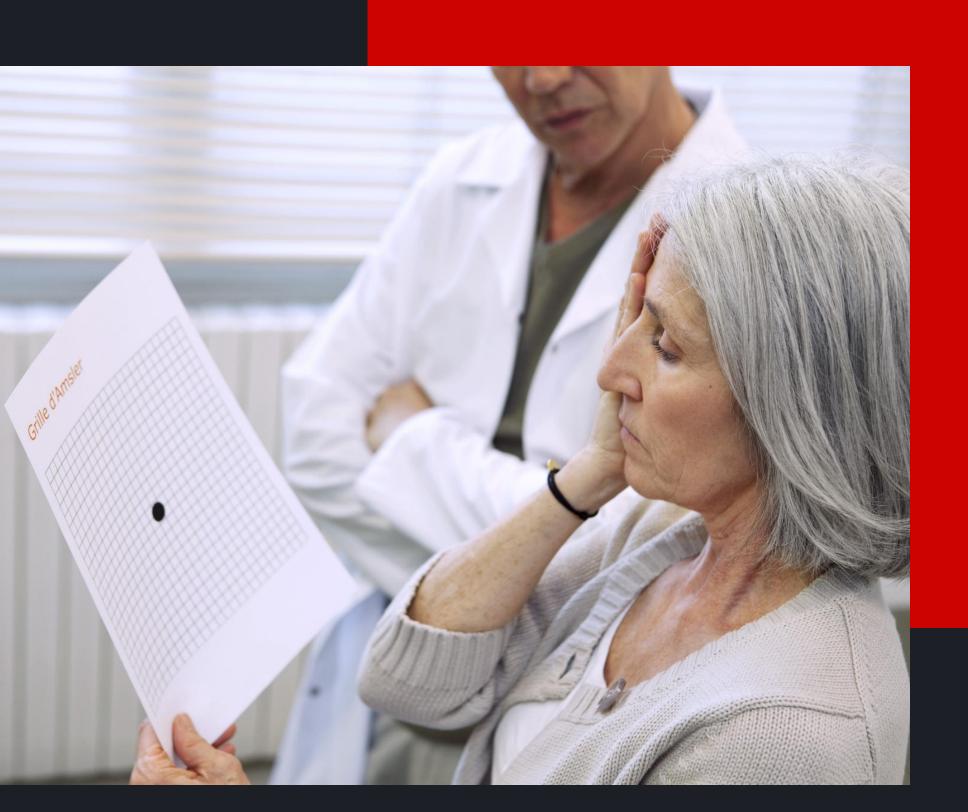
Concentration (nM)

HER2 affinity: HER2 x CD3 parental TetraBi > ABP-102a > ABP-102b > ABP-102c













## 

### **VEGF/ANG-2 BISPECIFIC ANTIBODY**

Treatment for Diabetic Macular Edema ("DME") & Wet Age-related Macular Degeneration ("AMD")



### **Addressing Unmet Needs in Wet AMD/DME Treatment: ABP-201 Competitive Landscape**

### \$10.4 billion

Global Wet AMD market size projection in 2024<sup>1</sup>

### **Potential Competitive Advantages:**

- Unlike Eylea and Lucentis, ABP-201 seeks to inhibit both • VEGF and ANG-2
- Unlike Vabysmo, ABP-201 has two binding sites for VEGF and ANG-2, designed to more effectively trap each ligand
- ABP-201 has a longer half-life in the eye than Eylea, • which contributes to pharmacological durability

Prescient and Strategic Intelligence, Wet Age-Related Macular Degeneration Market Overview, March 2019. <sup>2.</sup> Risk-adjusted revenues for ABP-201; Does not account for costs Source: Health Advances model and analysis

- We believe that ABP-201 will lacksquarerequire less frequent dosing, providing a significant advantage in the commercial setting.
- We anticipate that ABP-201 • will not suffer from drug resistance to the same extent as drugs that target VEGF alone, as increased signaling by ANG-2 in response to anti-VEGF therapy is one of the primary mechanisms of resistance to VEGF inhibitors.





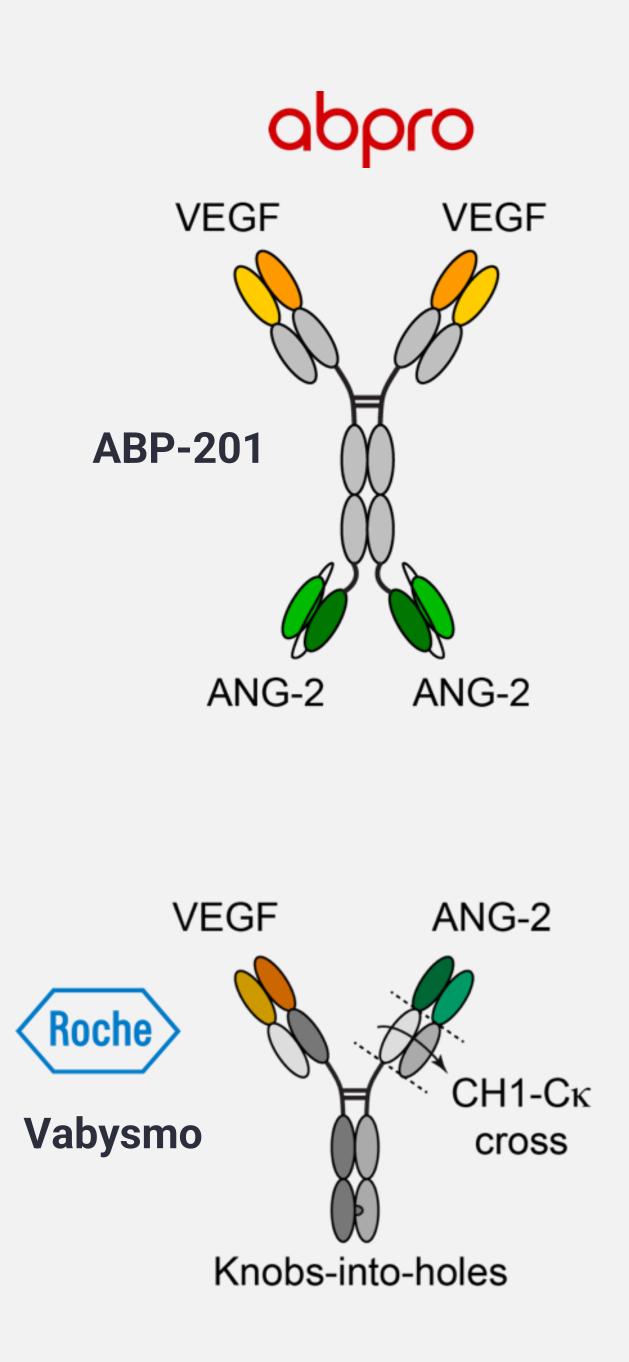
### **ABP-201: Anti-VEGF/ANG2** Target Indication: Wet AMD/DME

### **Key Characteristics**

- Dual inhibition of VEGF and ANG-2 to block angiogenesis ullet
- Four high-affinity binding sites for increased potential potency •
- Dual targeting in single molecule for simultaneous inhibition ullet
- Natural antibody structure for potentially improved dosing •
- Symmetrical structure for efficient manufacturing

### **Ligand trap targeting VEGF and ANG-2** for vascular diseases of the eye

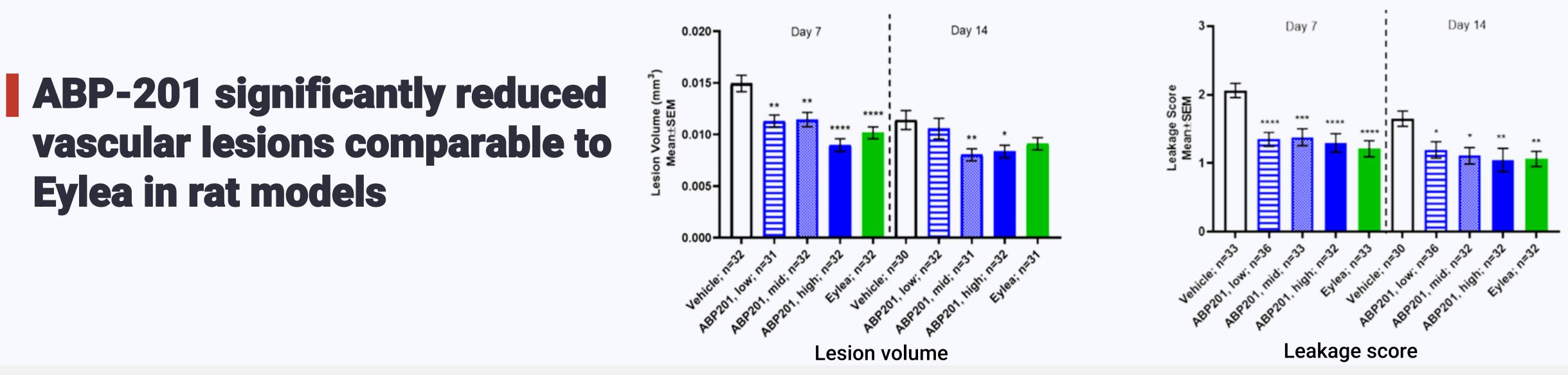
- Formulated for intravitreal injection
- Designed to block blood vessel formation and normalize damaged vessels through co-targeting vascular endothelial growth factor, or VEGF, and angiopoietin-2, or ANG-2

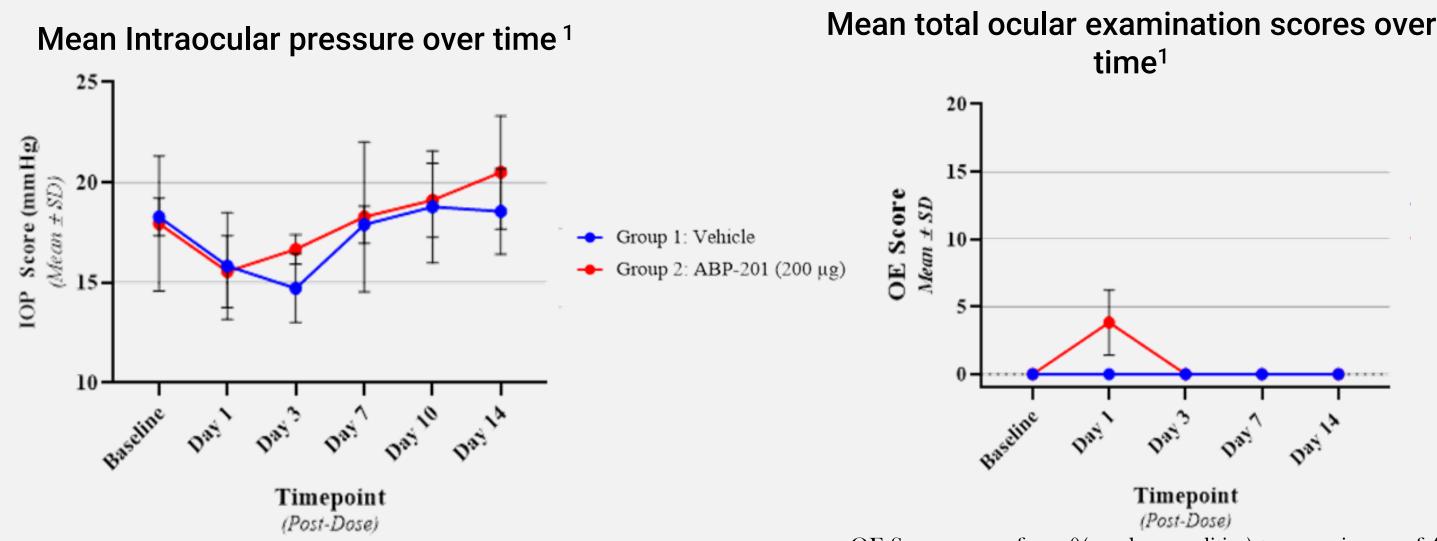






### **ABP-201: In Vivo Preclinical Models Have Positive Results**





Laser-induced neovascularization model in rats<sup>2</sup>

OE Scores range from 0(no abnormalities) to a maximum of 48

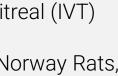
### **ABP-201 does not induce** significant inflammation or intraocular pressure increases in rabbit models

<sup>1</sup> PoweredResearch, Safety, Tolerability, and Pharmacokineti C Study Following Intravitreal (IVT) Delivery of a Novel Compound in Rabbit, April 27, 2021. <sup>2</sup> Ora, Inc., CNV Study with Intravitreally-injected Abpro Test Article ABP201 in Brown Norway Rats, December 20, 2023.

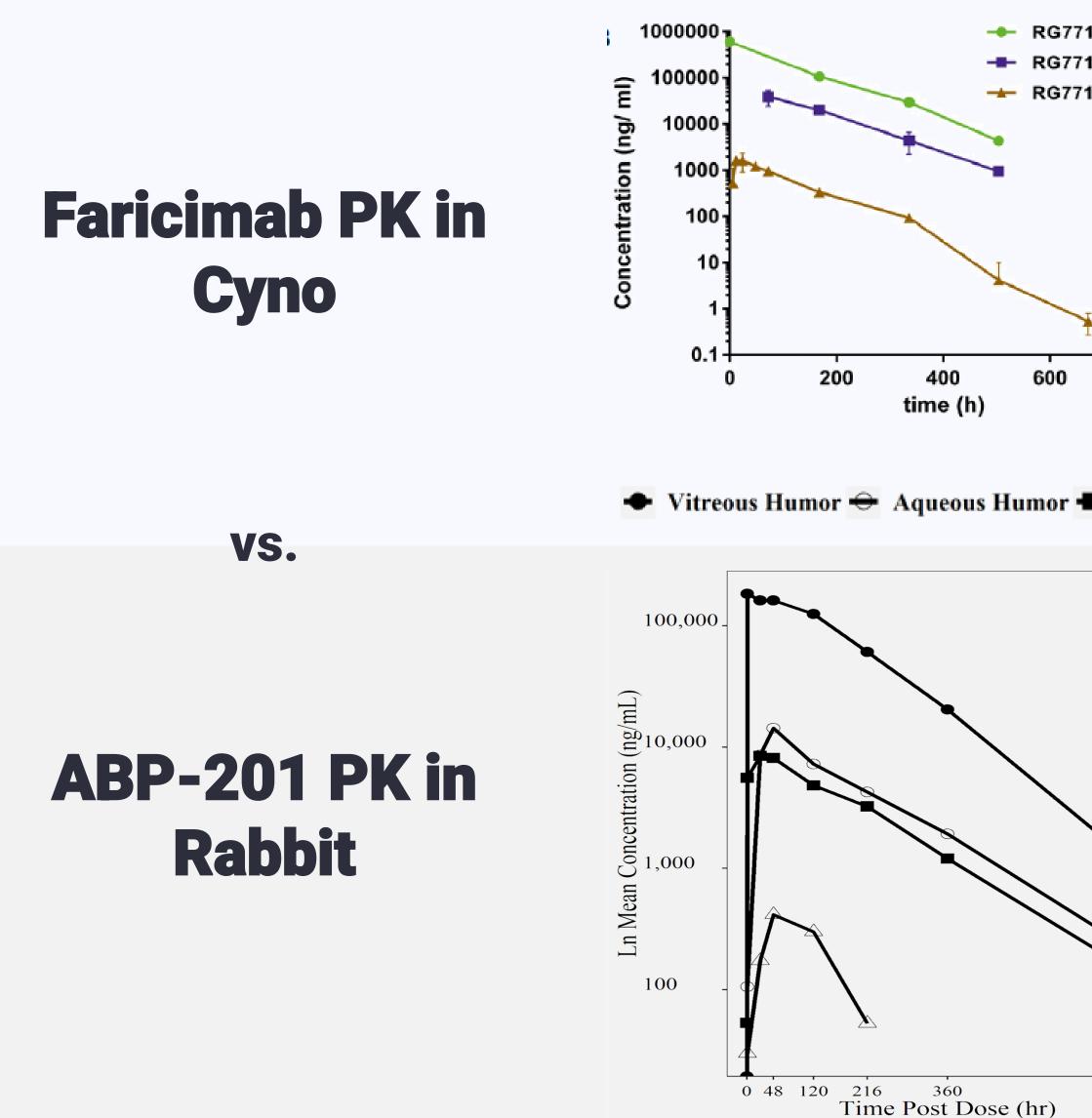








### **ABP-201 Exhibits Favorable PK Compared with Vabysmo**



<sup>1</sup>Regula JT, Lundh von Leithner P, Foxton R, et al. Targeting key angiogenic pathways with a bispecific CrossMAb optimized for neovascular eye diseases [published correction appears in EMBO Mol Med. 2019 May;11(5). <sup>2</sup>Study contracted at ContractKinetica, LLC

	Faricim	Faricimab(RG7716) 0.5 mg dose in Cyno <sup>1</sup>					
treous queous erum	PK parameter	Unit	Serum	Aqueous			
	C <sub>max</sub>	µg/ml	3.8	99			
	t <sub>max</sub>	h	24	72			
	t <sub>1/2</sub>	h	89.3	68			
	t <sub>last</sub>	h	672	672			
800	AUC <sub>0-tlast</sub>	(ug*h)/ml	295	18100			
	AUC <sub>0-inf</sub>	(ug*h)/ml	296	18200			
	F	%	12.7	N/A			

RG7716 vitreo G7716 aqueo RG7716 serum

-	Retina	4
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Serum

ABP-201 0.2mg dose in Rabbit <sup>2</sup>					
PK parameter	Unit	Serum	Aqueous	Vitreous	
C <sub>max</sub>	µg/ml	0.415	14.374	183.357	
T <sub>max</sub>	h	48	48	1	
t <sub>1/2</sub>	h	38	108	82	
AUC <sub>0-tlast</sub>	(ug*h)/ml	52	2529	36922	
AUC <sub>0-inf</sub>	(ug*h)/ml	55	2557	37027	
MRT	(h)	89	165	142	

720







### **ABP-201** Development Strategy

<sup>1</sup> Abpro Bio Co. Ltd (KOSDAQ: 195990), through its subsidiary Abpro Bio International, Inc., holds territory rights primarily in Asia and Middle East, and is an equity investor of Abpro Corporation.



### **Collaboration Highlights:**

- Co-development via a territorial partnership with Abpro Bio<sup>1</sup>
- Abpro retains U.S. and European Union Five commercial rights

#### **Current Status:**

Investigation New Drug (IND) enabling studies underway

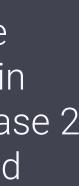
#### **Anticipated Development Plan**

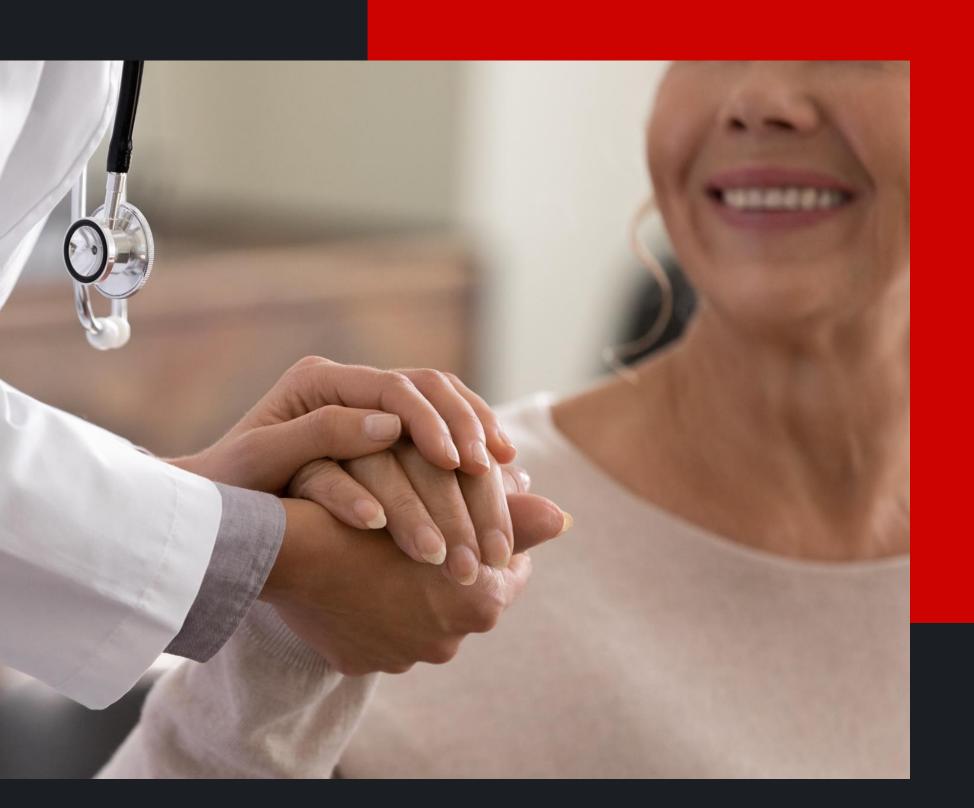
- Q1 2026: File IND application and • Initiate a Phase 1 trial in patients with Wet AMD
- Following the identification of the • maximum tolerated dose (MTD) in Phase 1, a larger randomized Phase 2 dose ranging trial to be conducted















## ADDITIONAL T-CELL ENGAGERS

**ABP-150:** Anti-Claudin 18.2/ CD3 against Gastric Cancer **ABP-110:** Anti-GPC3/CD3 against Liver Cancer





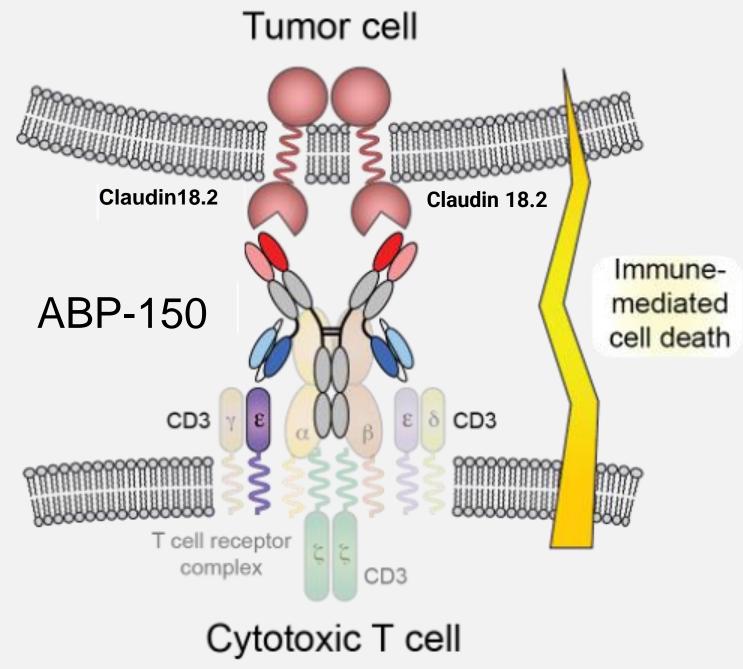
### ABP-150: Anti-Claudin18.2/CD3 Target Indication: Gastric Cancer

### **Key Characteristics**

- T-cell engager designed to fight cancer through co-targeting CD3 & Claudin 18.2 •
- Specific for Claudin 18.2, avoiding binding closely related isoform Claudin 18.1 expressed in the lung.
- Showed potent killing in in vitro T cell-mediated killing assays in preclinical • studies
- Showed potent efficacy in in vivo efficacy models •
- Well tolerated in preclinical efficacy models

### \$13.11 billion

Global gastric cancer market size projection by 2029<sup>1</sup>

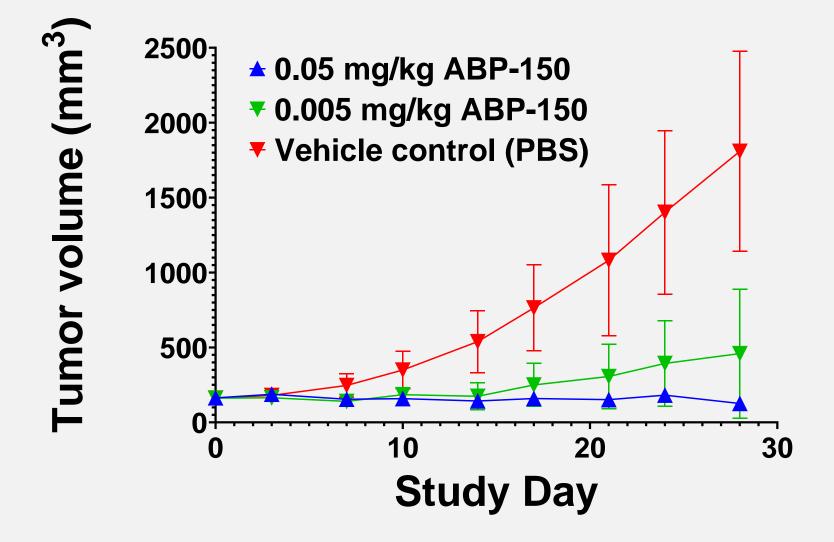






### **ABP-150: in vivo Efficacy and Safety Profile in Preclinical** Models

#### Potent in vivo efficacy in gastric cancer xenograft mouse model<sup>1</sup>





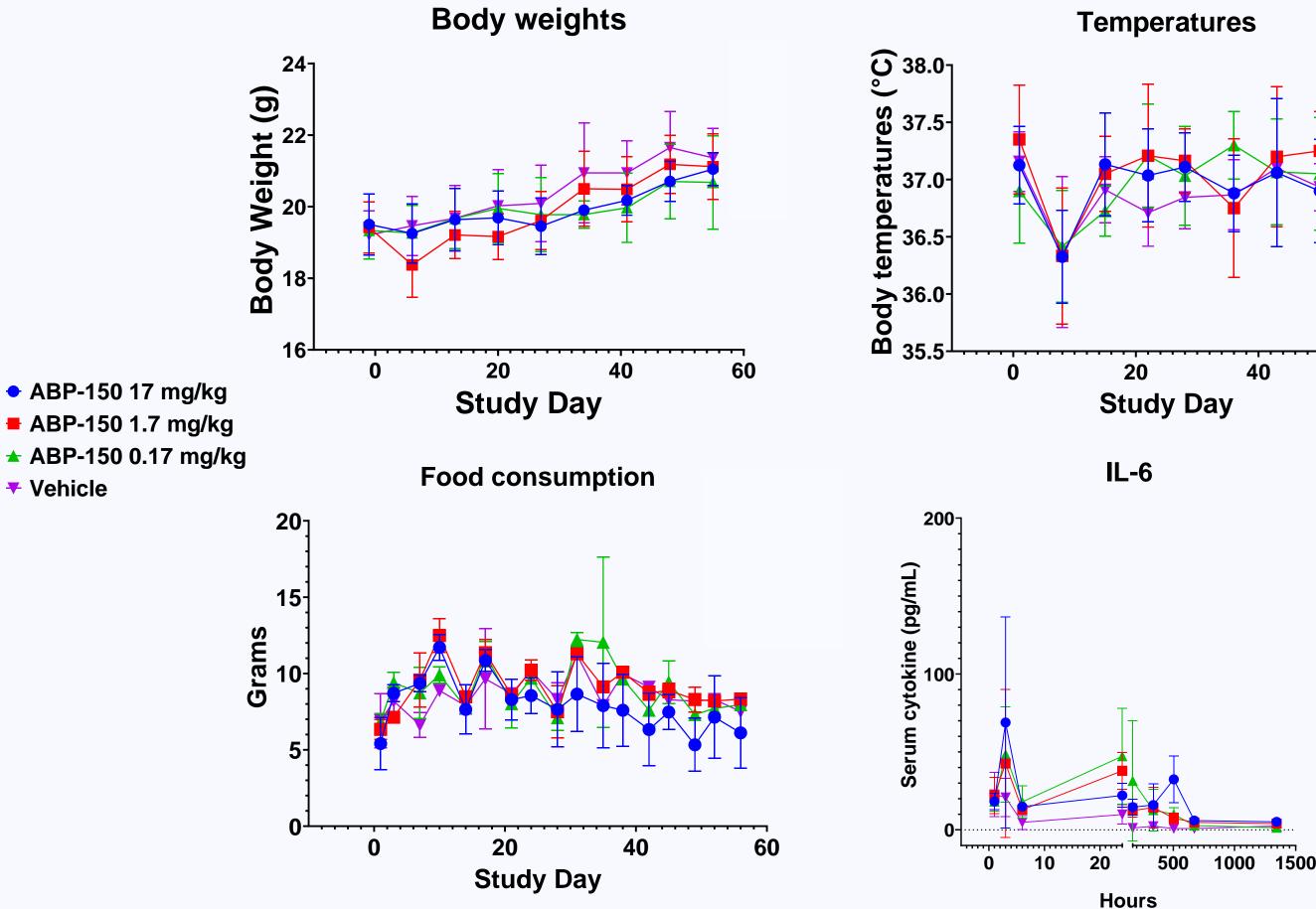
NUGC-4 tumor cells mixed with human PBMCs and implanted subcutaneously in the same bolus into NSG mice.

> Representative toxicity data from human CD3-transgenic mouse model. In this model, ABP-150 can bind both the transgenic human CD3 on mouse T cells and mouse claudin 18.2 on gastric epithelial cells. Upper left: Body weight measurements over time. No significant decrease in body weight with ABP-150 administration. Lower left: Amount of food consumed over time. No differences in food consumption between ABP-150-treated animals and placebo controls. Upper right: Body temperatures over time. No fever response with ABP-150 treatment. Lower right: IL-6 levels in blood over time. ABP-150 administration does not significantly increase IL-6, a major cytokine associated with triggering cytokine release syndrome (CRS).

<sup>1</sup>Abpro internal data.



#### ABP-150 is well tolerated in a preclinical tox model<sup>1</sup>

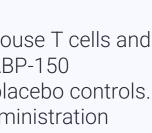












### ABP-110: Anti-GPC3/CD3 Target Indication: Hepatocellular Carcinoma- Liver Cancer

#### **Designed to provide in-vitro T-cell** dependent cellular cytotoxicity (TDCC) against liver cancer cells

- Showed high TDCC in both GPC3-expressing • HepG2 and Hep3B cell lines in preclinical models
- Elicited stronger TDCC compared to original • YP7 x CD3 bispecific in preclinical models

### **2.9 billion**

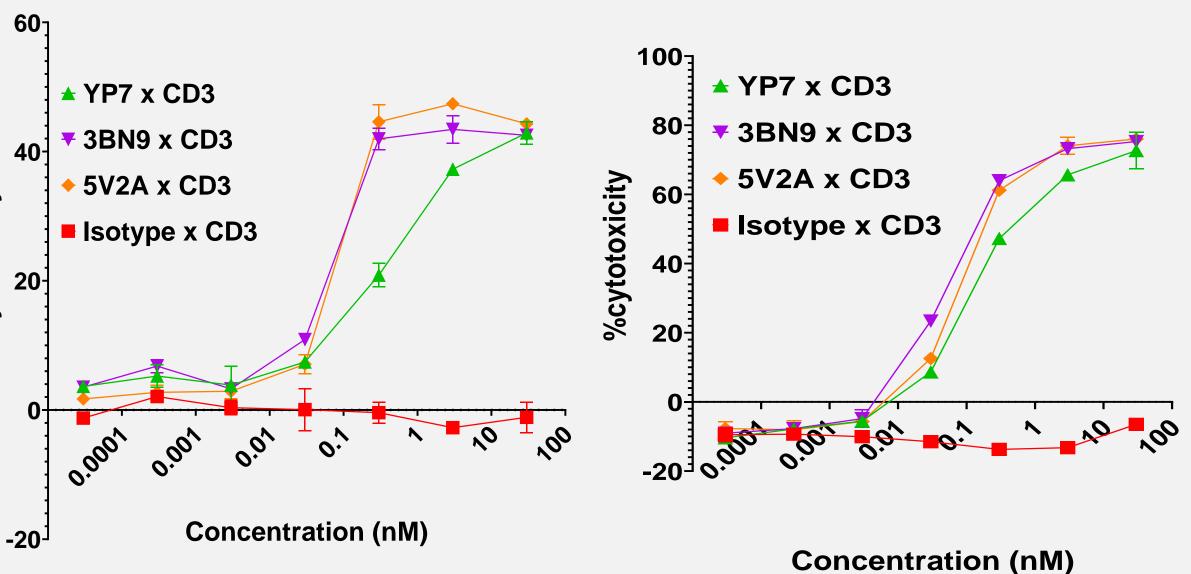
Global liver cancer market size projection by 2030<sup>1</sup>

<sup>1</sup> SNS Insider, Liver Cancer Therapeutics Market to Surpass USD 12,910.02 Million by 2030 Driven by Rising Incidence of Liver Cancer and Advancements in Early Diagnosis, October 25, 2023. <sup>2</sup> Abpro internal data

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HEP3B tumors + CD8<sup>+</sup> T cells<sup>2</sup>

HEPG2 tumors + CD8<sup>+</sup> T cells<sup>2</sup>

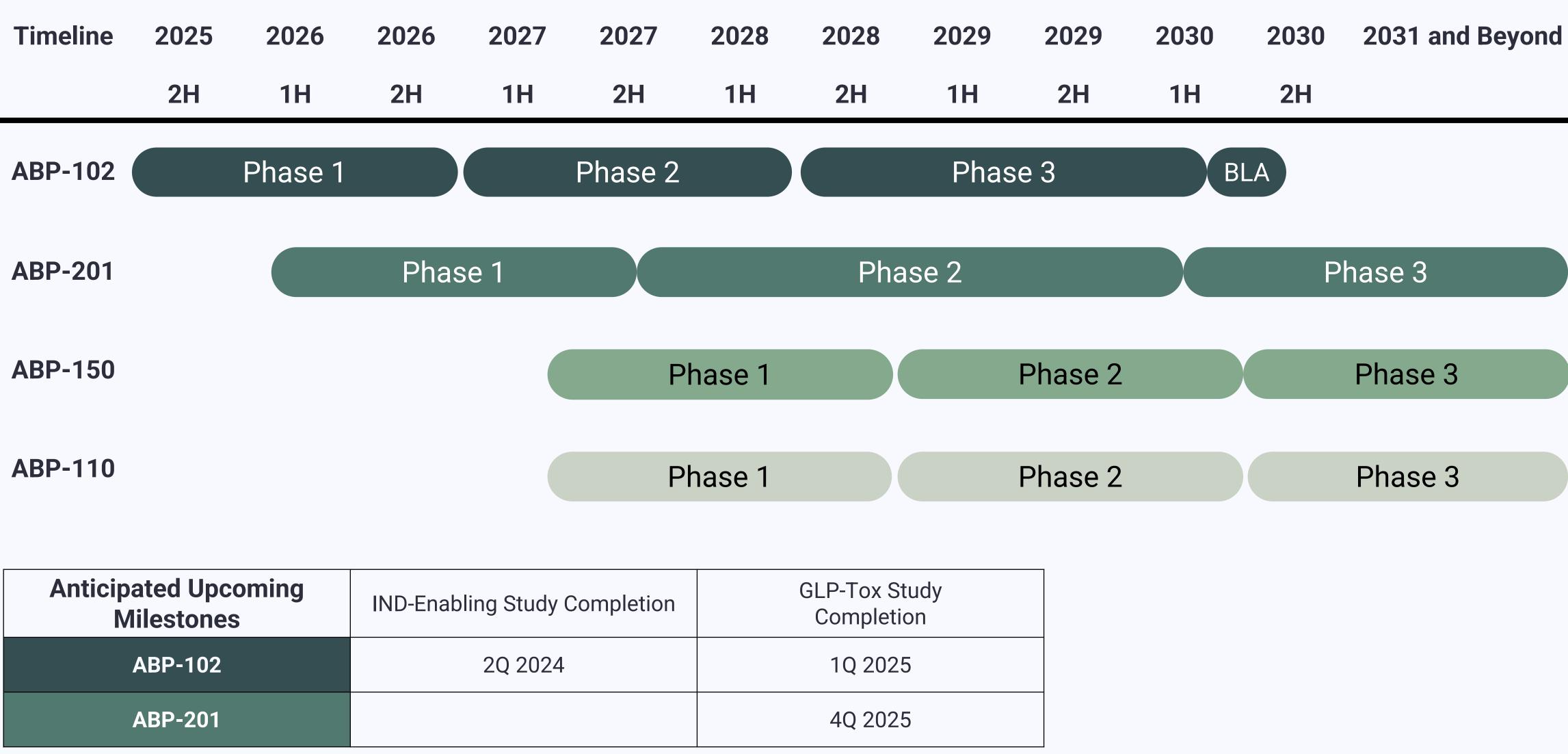


- YP7 is originally in-licensed from NIH at early stage
- 3BN9 x CD3 and 5V2A x CD3 are Abpro's improved BsAbs





### **Anticipated Clinical Development Timeline**

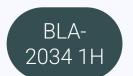


Anticipated Upcoming Milestones	IND-Enabling Study Completion	
ABP-102	2Q 2024	
ABP-201		

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### Appendix

- Additional Key Team Members
- Additional Data for ABP-102(HER2/CD3)
- Additional Data for ABP-201(VEGF/ANG2)



#### Additional Data for Abpro Technology Platform



### Additional Data for Abpro Technology Platform



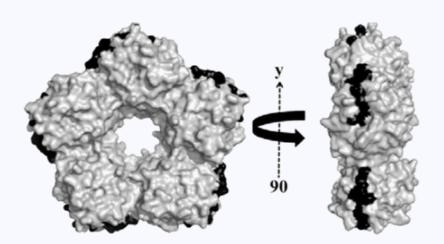


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### **Diversimmune Platform**

#### **Case study: Amyloid\*:**

Preclinical results from functional therapeutic antibodies generated with DiversImmune<sup>®</sup> platform, via a project for GSK, published in Nature<sup>1</sup> and The New England Journal of Medicine<sup>2</sup>



Abpro generated a therapeutic mAb "Abp1" against Amyloid used by GSK, featuring high affinity and specificity in ways other approaches can not

Conformational epitope recognized by Abp1 (highlighted in black)

\*Amyloid plaques, composed of misfolded proteins, are a hallmark feature in the brains of individuals with Alzheimer's disease, contributing to the neurodegenerative process

<sup>1</sup> https://www.nature.com/articles/nature09494

### nature LETTER

doi:10.1038/nature09494

#### Antibodies to human serum amyloid P component eliminate visceral amyloid deposits

Karl Bodin<sup>1</sup>\*, Stephan Elmerich<sup>1</sup>\*, Melvyn C. Kahan<sup>1</sup>, Glenys A. Tennent<sup>1</sup>, Andrzej Loesch<sup>1</sup>, Janet A. Gilbertson<sup>1</sup>, Winston L. Hutchinson<sup>1</sup>, Palma P. Mangione<sup>1,2</sup>, J. Ruth Gallimore<sup>1</sup>, David J. Millar<sup>1</sup>, Shane Minogue<sup>3</sup>, Amar P. Dhillon<sup>4</sup>, Graham W. Taylor<sup>1</sup>, Arthur R. Bradwell<sup>5,6</sup>, Aviva Petrie<sup>7</sup>, Julian D. Gillmore<sup>1</sup>, Vittorio Bellotti<sup>1,2</sup>, Marina Botto<sup>8</sup>, Philip N. Hawkins<sup>1</sup> & Mark B. Pepys<sup>1</sup>

#### METHODS SUMMARY

Induction of murine AA amyloidosis using amyloid enhancing factor and repeated casein injections, estimation of amyloid load in vivo and in vitro, and quantification of human SAP in serum and tissue extracts, were conducted as previously reported<sup>46,10</sup>. Sheep and mouse anti-human-SAP antibodies were raised by immunization with isolated pure human SAP26 and mouse anti-human-SAP hybridomas were cloned by standard methods; Abp1 was produced by AbPro.



The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

#### Therapeutic Clearance of Amyloid by Antibodies to Serum Amyloid P Component

Duncan B. Richards, D.M., Louise M. Cookson, B.Sc., Alienor C. Berges, Pharm.D., Sharon V. Barton, M.Sc., Thirusha Lane, R.N., M.Sc., James M. Ritter, D.Phil., F.Med.Sci., Marianna Fontana, M.D., James C. Moon, M.D., Massimo Pinzani, M.D., Ph.D., Julian D. Gillmore, M.D., Ph.D., Philip N. Hawkins, Ph.D., F.Med.Sci., and Mark B. Pepys, Ph.D., F.R.S.

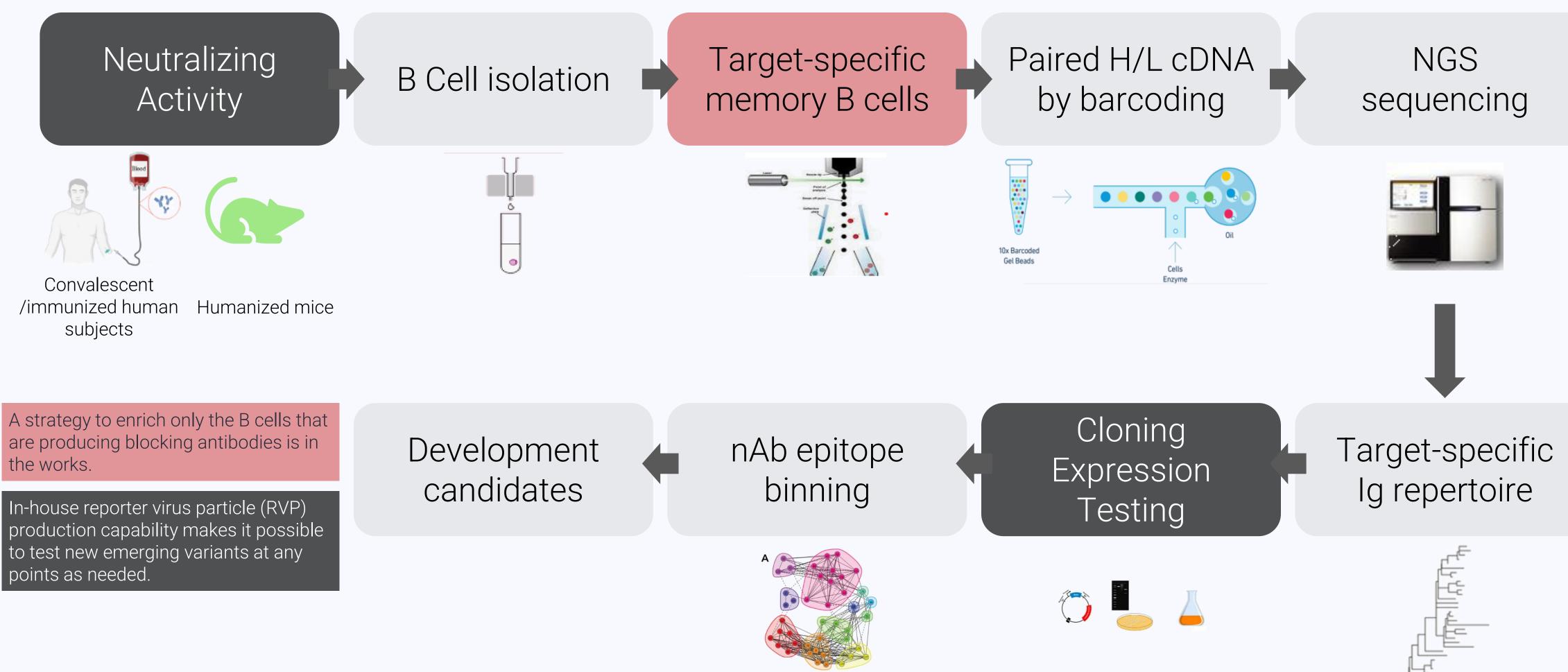






<sup>&</sup>lt;sup>2</sup> <u>https://www.nejm.org/doi/full/10.1056/NEJMoa1504942</u>

### **Neutralizing Antibody B cell Cloning Discovery Platform** Timeline: < 2 months



are producing blocking antibodies is in the works.

production capability makes it possible to test new emerging variants at any points as needed



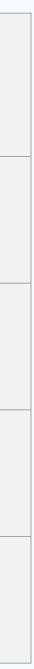


### **Anticipated Advantages of TetraBi Format Over First- and Second-Generation T-Cell Engagers**

Antibody Characteristics	Antigen	Antigen CD3 UNICO SC03 DISPECIALING DISPECIALING DISPECIALING	Antigen Antigen CD3 CD3 Abpro TetraBi	obpro Benefit
Bivalent Binding to Tumor Antigen				Stronger binding to the tumor cell, potentially leading to increased efficacy and an expanded patient population
Long Circulating Half-life				Extends duration of therapeutic effect and reduces frequency of dosing
Fc engineered to reduce CRS				Decreases interaction with other immune cells, lowering risk of unwanted side effects
Low Risk of Immunogenicity				Natural antibody sequences decrease risk of immune response, which can lead to decreased efficacy
Straightforward Manufacturing				Symmetrical structure streamlines manufacturing by reducing risk of chain mispairing







### **Additional Key Team Members**





### **Additional Key Team Members**



#### **Shaun Murphy, PhD** VP of Immunology

Brown PhD, **Research Harvard Medical School** 

> Joined Abpro in 2014 Previously at Toxikon

Lomonosov Moscow State, BS Wayne State U School of Medicine, PhD

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#### Askar Kuchumov, PhD

VP of Business Development

Lactocore (Interim CEO), Astrotide (Cofounder/CEO), Cleveland Biolabs (Director of BD)



#### Mengsha Wang, MBA

Director of Corporate Development

Clark U MSc. Finance, MBA

Joined Abpro in 2014





### Additional Data for ABP-102

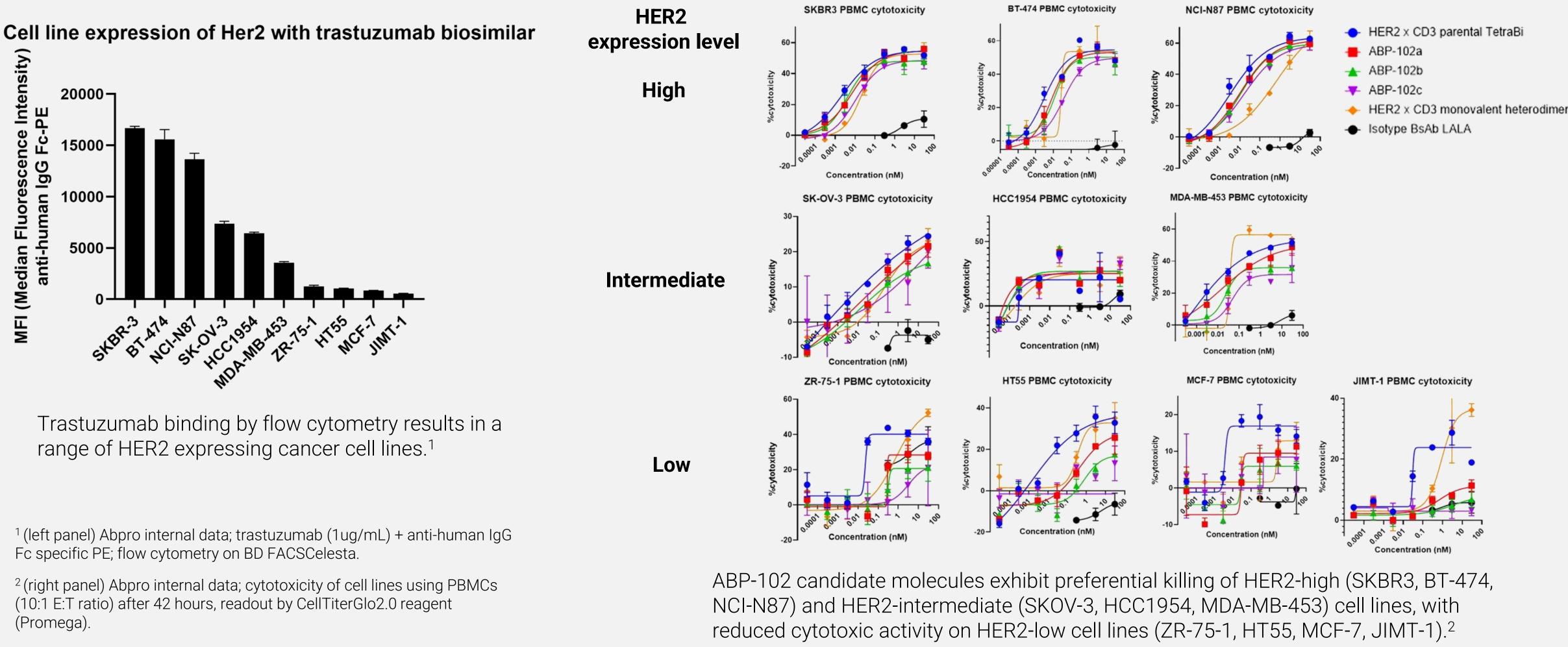
HER2/CD3 T-Cell Engager







### **ABP-102: engineered TetraBi antibodies exhibit selectivity in vitro, with potent** cytotoxicity on HER2-high cell lines and reduced killing of HER2-low cell lines



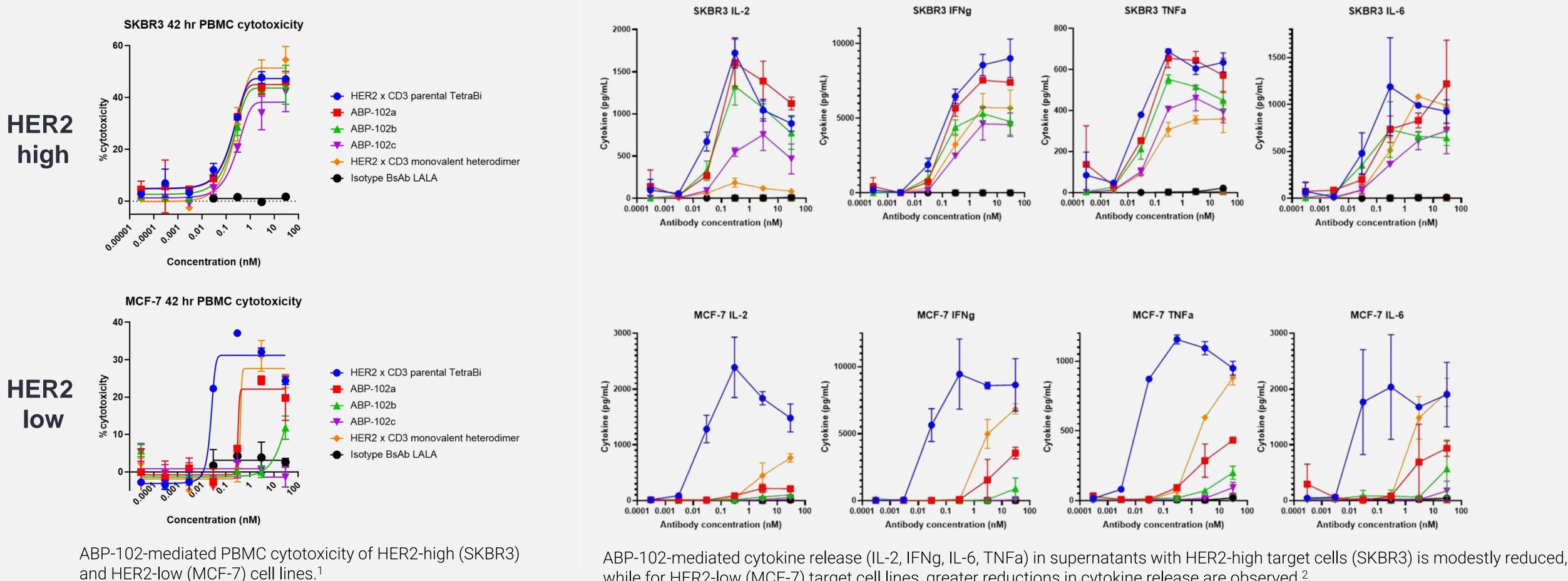
**Conclusion:** ABP-102 candidate bispecific antibodies have potent cytotoxicity at similar levels as the parental non-affinity-tuned bispecific antibody on HER2-high and HER2-intermediate cell lines. On HER2-low cell lines, ABP102 candidates have reduced cytotoxicity, and exhibit more selectivity than the parental bispecific antibody, reducing the potential for "on-target, off-tumor" toxicity.







### ABP-102: engineered TetraBi antibodies exhibit functional selectivity for T cell activation, including reduced cytokine release for HER2-low expressing cell lines



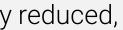
#### Conclusion: ABP-102 engineered dual-arm affinity reduction strategy resulted in candidates with reduced cytokine release compared to the parental molecule, reducing the potential for "on-target, off-tumor" toxicity.

<sup>1</sup> Abpro internal data; cytotoxicity of cell lines using PBMCs (10:1 E:T ratio) after 42 hours, readout by CellTiterGlo2.0 reagent (Promega). <sup>2</sup> Abpro internal data; cytotoxicity of cell lines using PBMCs (10:1 E:T ratio) after 42 hours, readout by bead-based multiplex assay for cytokine detection (R&D Systems/Luminex).

while for HER2-low (MCF-7) target cell lines, greater reductions in cytokine release are observed.<sup>2</sup>









### **Additional Data for ABP-201**



### VEGF/ANG-2 BISPECIFIC ANTIBODIES



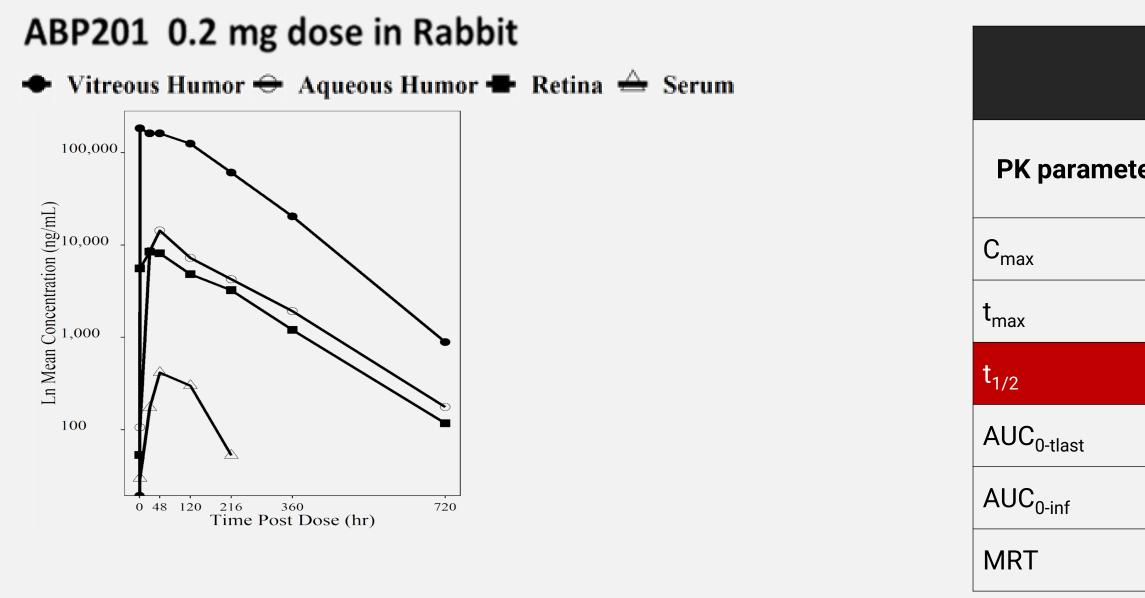


### **ABP-201 Exhibits Favorable PK Compared with Eylea**

#### Eylea 1.2 mg dose in Rabbit

TABLE 2. PK Parameters of Aflibercept (Eylea) in the Vitreous, Aqueous Humor, and Retina-Choroid of Eyes From New Zealand White Rabbits

PK Parameters	Vitreous	Aqueous Humor	Retina-Choroid
$T_{1/2}, h^*$	$94.1 \pm 21.4$	$47.9 \pm 7.1$	$58.2 \pm 76.9$
MRT, h*	$135.8 \pm 30.9$	$69.2 \pm 10.2$	$84.0 \pm 110.9$
$C_{\rm max},  \mu g/mL^{\dagger}$	989.0	108.9	21.9
$T_{\rm max}, h^{\dagger}$	1	48	24
AUC <sub>last</sub> , $h \times \mu g/mL^{\dagger}_{\uparrow}$	135,810.6	13,889.7	2453.1
V/F, mL*	$1.4 \pm 0.1$	-	-
CL/F, mL/h*	$0.01 \pm 0.001$	-	-



Invest Ophthalmol Vis Sci. 2016;57:2612-2617. DOI:10.1167/ iovs.16-19204

ABP-201 0.2mg dose in Rabbit <sup>1</sup>							
ter	Unit	Serum	Aqueous	Vitreous	Retina		
	µg/ml	0.415	14.374	183.357	8.457		
	h	48	48	1	24		
	h	38	108	82	106		
	(ug*h)/ml	52	2529	36922	1777		
	(ug*h)/ml	55	2557	37027	1795		
	(h)	89	165	142	158		





### **Certain Risk Related to ACAB, Abpro and the Business** Combination

All references to the "Company," "we," "us" or "our" refer to the business of Abpro Corporation. and its subsidiaries, taken as a whole, unless the context otherwise requires. The risks noted below are not exhaustive and are qualified in their entirety by disclosures contained in future documents filed or furnished by the Company, Atlantic Coastal Acquisition Corp. II. ("ACAB"), the newly formed company of the Company and ACAB (the "combined company" or "NewCo") after the proposed business combination and the related transactions contemplated among the parties (collectively, the "Business Combination"), or others, with the U.S. Securities and Exchange Commission (the "SEC"). The risks presented in such filings will include risks with respect to the business and securities of the Company, ACAB, and Newco, as well as risks related to the Business Combination and any related financing, and may differ significantly from and be more extensive than those presented below. Certain risks related to ACAB, Abpro, and the Business Combination include the following:

- and Abpro's ability to negotiate and complete the Business Combination;
- Abpro's success in retaining or recruiting, or changes required in, officers, key employees, or directors following the Business Combination;
- The funds in the trust account being available to ACAB or the combined company;
- ACAB's or the combined company's ability to obtain additional financing to complete the Business Combination;
- ACAB's public securities' liquidity and trading and those of the combined company;
- The lack of a market for ACAB's or the combined company's securities;
- The use of funds not held in the trust account or available to ACAB from interest income on the trust account balance and the trust account not being subject to claims of third parties;
- The impact of macroeconomic conditions and geopolitical crises; •
- The number of ACAB shareholders voting against the business combination proposal; •
- The occurrence of any event, change or other circumstances that could give rise to the termination of the business combination agreement;
- The ability to achieve and maintain the listing of the combined company's shares on a national securities exchange following the Business Combination;
- Management of growth and Abpro's ability to execute on its business strategy and plans;
- The result of future financing efforts;
- Risks related to regulatory matters, including regulatory approvals and laws and regulations related to anti-corruption, cyber security and privacy;
- efficacy for its products and therapies;
- Abpro's future financial performance, including the risk that Abpro's financial results and business metrics are likely to fluctuate on a quarterly and annual basis;
- Market opportunity estimates and growth forecasts are subject to significant uncertainty and are based on assumptions and estimates that may not prove to be accurate;
- Risks related to Abpro's ability to retain and expand its development agreements, the lack of long-term and binding commitments with co-developers, and its ability to compete effectively; •
- Risks related to international operations and related regulatory risks; •
- Risks related to our intellectual property, including our ability to protect our IP portfolio and risks related potential claims by third parties;
- Abpro's failure to raise additional capital or generate the significant capital necessary to maintain and expand its operations, and risks related to Abpro's ability to continue as a "going concern"; •
- Abpro's ability implement and maintain sufficient internal controls over financial reporting and disclosure controls and procedures, and its ability to report its financial results in an accurate and timely manner;
- Fluctuations in the stock price of the combined company's securities;
- independent expert or outside party;
- companies, including those required by the SEC and applicable stock exchange;
- Certain of ACAB's and Abpro's directors and officers and significant stakeholders may have interests in the Business Combination different from the interests of ACAB's or Abpro's shareholders;
- directors and officers: and
- Costs related to the Business Combination and the increased costs of being a public company following the consummation of the Business Combination.

• ACAB's and Abpro's ability to complete the Business Combination during the anticipated timeframe or at all, including as a result of any changes in SEC regulations or policies related to business combinations involving SPACs that could adversely affect ACAB's

Changes adversely affecting the businesses in which Abpro is engaged, including the risk that the Business Combination disrupts current plans and operations of the Company as a result of the announcement or the consummation of the Business Combination;

• Risks related to regulatory approval of Abpro's current or future products and therapies and Abpro's ability to successfully commercialize any these products and therapies in a timely manner or at all, as well as Abpro's ability to accurately anticipate demand and

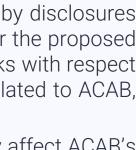
• Any projections will not have been prepared with a view toward compliance with published guidelines of the American Institute of Certified Public Accountants, and have not been compiled or examined by any registered public accountants nor any other

• Risks related to the limited public company experience among Abpro's management team and risks related to Abpro's ability to operate as a public company and comply with applicable law and regulations and corporate governance matters applicable to public

The exercise of discretion by directors and officers ACAB or Abpro in agreeing to changes to the terms, or waivers of closing conditions, in the definitive agreements with respect to the Business Combination and potential conflicts of interest of SPAC's sponsor,

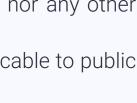












## Thank you.



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### **Mission:** Developing antibody therapies to improve the lives of patients facing severe and lifethreatening diseases

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