UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (date of earliest event reported): April 8, 2025

iBio, Inc.

(Exact name of registrant as specified in charter)

Delaware

(State or other jurisdiction of incorporation)

001-35023

26-2797813 (IRS Employer Identification No.)

(Commission File Number)

11750 Sorrento Valley Road, Suite 200 San Diego, California 92121

(Address of principal executive offices and zip code)

(979) 446-0027

(Registrant's telephone number including area code)

N/A

(Former Name and Former Address)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of registrant under any of the following provisions:

☐ Writt	Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)						
☐ Solic	Soliciting material pursuant to Rule 14a-12(b) under the Exchange Act (17 CFR 240.14a-12)						
□ Pre-c	Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))						
□ Pre-c	☐ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))						
decurities registered pursuant to Section 12(b) of the Act:							
	Title of each class	Trading Symbol(s)	Name of each exchange on which registered				
	Title of each class	Trading Symbol(s)	Name of each exchange on which registered				
Comm	on Stock, \$0.001 par value per share	IBIO	The Nasdaq Stock Market LLC				
ndicate by ci §230.405 of the	on Stock, \$0.001 par value per share heck mark whether the registrant is an em this chapter) or Rule 12b-2 of the Securities wth company	IBIO erging growth company as Exchange Act of 1934 (§24)	The Nasdaq Stock Market LLC defined in Rule 405 of the Securities Act of 1933 0.12b-2 of this chapter).				
ndicate by cl §230.405 of the comment of the comme	on Stock, \$0.001 par value per share heck mark whether the registrant is an em this chapter) or Rule 12b-2 of the Securities wth company	IBIO erging growth company as Exchange Act of 1934 (§24)	The Nasdaq Stock Market LLC defined in Rule 405 of the Securities Act of 1933 0.12b-2 of this chapter). cted not to use the extended transition period for				

Item 7.01. Regulation FD Disclosure.

iBio, Inc. (the "Company") has updated its corporate presentation. A copy of the updated corporate presentation is furnished as Exhibit 99.1 to this Current Report on Form 8-K.

The information in this Item 7.01 and in the corporate presentation attached as Exhibit 99.1 to this Current Report on Form 8-K shall not be deemed to be "filed" for purposes of Section 18 of the Securities Act of 1934, as amended, or otherwise subject to the liabilities of that section or Sections 11 and 12(a)(2) of the Securities Act of 1933, as amended. The information contained in this Item 7.01 and in the corporate presentation attached as Exhibit 99.1 to this Current Report on Form 8-K shall not be incorporated by reference into any filing with the Securities and Exchange Commission made by the Company, whether made before or after the date hereof, regardless of any general incorporation language in such filing.

The corporate presentation attached as Exhibit 99.1 to this Current Report on Form 8-K includes "safe harbor" language pursuant to the Private Securities Litigation Reform Act of 1995, as amended, indicating that certain statements contained therein are "forward-looking" rather than historical.

The Company undertakes no duty or obligation to update or revise the information contained in this Current Report on Form 8-K, although it may do so from time to time if its management believes it is appropriate. Any such updating may be made through the filing of other reports or documents with the Securities and Exchange Commission, through press releases or through other public disclosures.

Item 8.01. Other Events.

The Company has updated its corporate presentation, a copy of which is attached as Exhibit 99.1 to this Current Report on Form 8-K, for use in meetings with investors, analysts and others. The information on slides 16, 17, 18, 19, 20, 25, and 26 of Exhibit 99.1 is incorporated by reference herein

The non-human primate data from a non-human primate study of IBIO-600, the Company's long-acting anti-myostatin antibody, showed extended half-life and muscle growth. The results indicate IBIO-600 promoted a dose-dependent increase in lean mass and a reduction in fat mass from baseline values. Standard PK calculations indicated the half-life of IBIO-600 in non-human primates was 40 to 52 days. Non-human primate pharmacokinetics data suggests IBIO-600, a potentially best-in-class long-acting anti-myostatin antibody, could have a human half-life as long as 130 days.

Preclinical data for a first-in-class Activin E antibody disclosed in January, showed that the antibody effectively blocks Activin E signaling in human adipocytes and is currently being evaluated in an exploratory study with obese mice, both as a monotherapy with bi-weekly dosing and in combination with semaglutide dosed daily. After only two weeks of dosing, monotherapy resulted in fat-selective weight loss of approximately 4%, with a significant 18% reduction in total body fat compared to placebo. Notably, when combined with semaglutide, the Activin E antibody demonstrated a strong synergistic effect, enhancing total weight loss by an additional 9% beyond GLP-1 therapy alone, leading to an overall weight reduction of 34%. This combination also resulted in a remarkable 72% reduction in body fat over the treatment period, as measured by DEXA scans.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

Exhibit No. Description

99.1 Corporate Presentation of iBio, Inc., dated April 2025

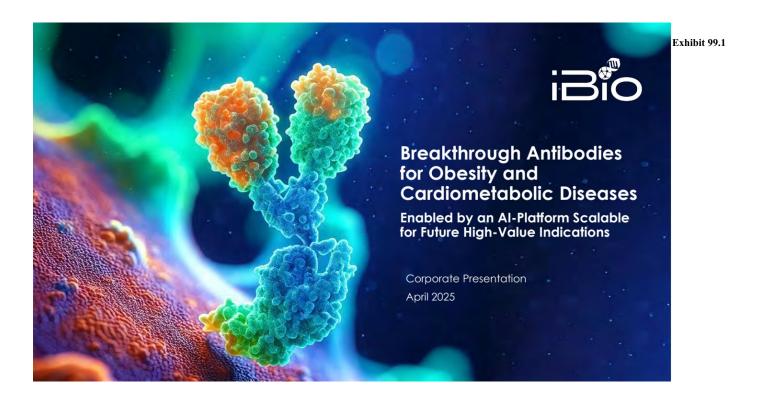
104 Cover Page Interactive Data File (embedded within the Inline XBRL document)

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

IBIO, INC. Date: April 8, 2025

By: /s/ Marc A. Banjak
Name: Marc A. Banjak
Title: Chief Legal Officer



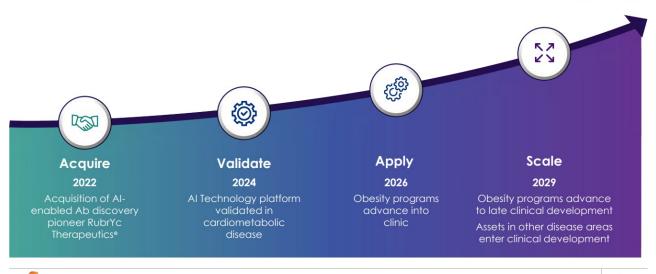
Forward looking statements

Certain statements in this presentation constitute "forward-looking statements" within the meaning of the Private Securifies Litigation Reform Act of 1995, as amended. Words such as "may," "might," "will," "should," "beleves," "expect," "anticipate," "estimate," "continue," "predict," "forecast," "project," "plan," "intend" or similar expressions, or statements regarding intent, belief, or current expectations, are forward-looking statements. These forward-looking statements are based upon current estimates and includes statements regarding near term catalysts. While lib, Inc., a Delaware corporation (including its consolidated subsidiaries, "iBio," the "Company," "we," "us" or "our") believes these forward-looking statements are reasonable, undue reliance should not be placed on any such forward-looking statements are reasonable, undue reliance should not be placed on any such forward-looking statements, which are based on information available to us on the date of this presentation. These forward-looking statements are subject to various risks and uncertainties, many of which are difficult to predict that could cause actual results to differ materially from current expectations and assumptions from those set forth or implied by any forward-looking statements. Important factors that could cause actual results to differ materially from current expectations include, among others, the Company's ability to obtain regulatory approvals for commercialization of its product candidates or to comply with ongoing regulatory requirements, regulatory limitations relating to its ability to attain license agreements, the conflications, acceptance of its product candidates in the marketplace and the successful development, marketing or sole of products, its ability to attain license agreements, the conflications, acceptance of its product candidates for specific indications, acceptance of its product candidates for specific indications, acceptance of its product candidates or to comply only the capital or grants necessary to

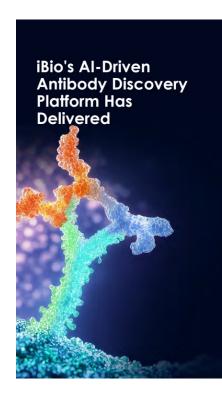


An Antibody (Ab) Discovery Platform for Cardiometabolic Disease and Beyond

Advancing Antibodies Against Difficult Targets With an Integrated and Validated Al Technology Stack







Corporate Highlights

- Al-driven antibody discovery Platform including patented Epitope steering, StableHu™, EngageTx™, and ShieldTx®
- Platform has delivered Development Candidates in as little as 7 months
- 11 active programs:

5 Cardiometabolic/Obesity programs - 3 of which are partnered - demonstrating the value of our approach

6 in-house pre-clinical programs in immuno-oncology

Near Term Catalyst

2025

 Long-acting anti-Myostatin program; IND by Q4 '25/Q1'26

2026

- Ph 1 trial for long-acting anti-Myostatin program initiated by 2H '26
- Additional IND by 2H '26

Any Epitope on Any Drug Target

Al Epitope Engineering and Antibody Optimization Engines unlock challenging target classes



iBio's Discovery Engine

We use our Tech Stack to generate new IP against hard-to-drug targets – from idea to Development Candidate in 7 months



iBio's Proprietary Al Technology Platform

- Multi-layer technology platform addresses multiple challenges in Ab discovery
- Patented Epitope Steering technology
- Single-step Ab StableHu x Mammalian Display
- Masked (ShieldTx) Antibodies
- T-cell engager panel (EngageTx)



Al-guided precision hits that are epitope class agnostic

- Selectively targets functional epitopes
- Epitopes with complex modes of action
- Unlocks **novel target** classes
- Accelerates discovery of Ab against validated targets



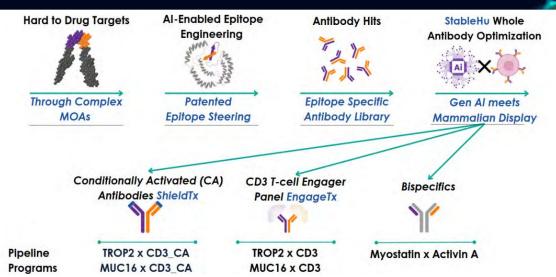
Generative AI meets mammalian display: Ab optimization in 3 weeks

- Gen Al creates mammalian display libraries with phage-like diversity
- Single-shot multidimensional lead optimization
- Compatible with multi-specific antibody formats
- Antibody format agnostic

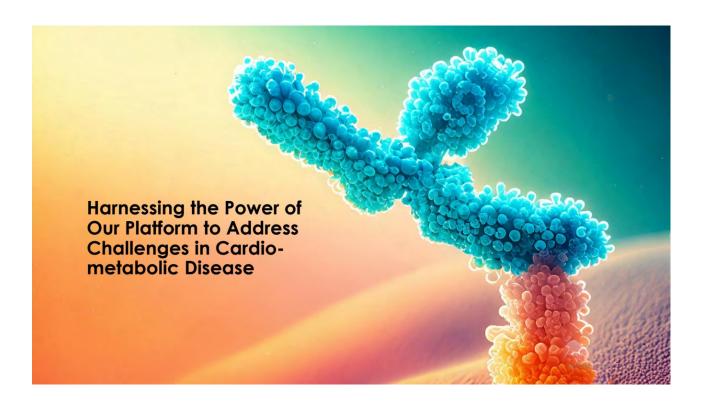


iBio's Al Tech Stack is a Fully Integrated Solution for Antibody Discovery

Enables and accelerates Antibody Discovery & Development Against Hard-to-Drug Targets







iBio's Rapidly Advancing High Value Obesity and Cardiometabolic Pipeline



Current Treatments in Obesity Fall Short

Significant Unmet Medical Need for Innovation to Improve Overall Metabolic Health and Function



iBio's Al-enabled platform is addressing the challenges of current antiobesity medicines



nature biotechnology

After obesity drugs' success, companies rush to preserve skeletal muscle

ShoSpace
What's Next for Obesity
Therapeutics? Higher Quality

Weight Loss

GLP-1 discontinuation affirms need for holistic weight-loss plan

The Next Generation

Potential Avenues:

- · Preservation of muscle mass during GLP-1 agonist induced weight loss
- · Improved fat burning and prevention of dyslipidemia
- · Improved cardiac function and treatment of cardiovascular disease related to metabolic syndrome



A Clear Strategy to Create a High-Value Pipeline of Differentiated Products

A prime opportunity exists for GLP-1 complementary therapeutic approaches





Address Challenges With Current GLP-1 Drugs

- · Muscle mass loss
- Side effects leading to discontinuation
- · Inconvenient dosing frequency
- Room for high quality weight loss



Focus on Highly Validated Targets

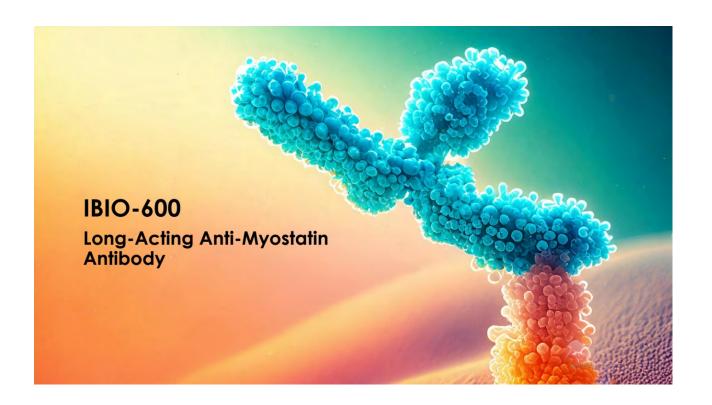
- Preserve and build muscle mass
- Fat-specific weight reduction
- Targeting both sides of the equation, calorie intake and energy expenditure



iBio's Platform Fuels a High-Value Pipeline

- Tackling complex, hard to drug targets
- Optimizing function and developability simultaneously
- Rapidly optimizing multispecifics





Myostatin Antagonism

Enhancing the Quality of Weight Loss by Maintaining Muscle Mass During and After Weight Loss with GLP-1s

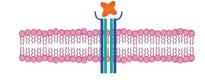


We are developing Myostatin inhibitors to **preserve and increase muscle mass**, **complementary to** treatment with **GLP-1 drugs**

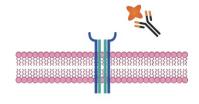
Why We Target Myostatin

- Incretin drugs reduce caloric intake, causing weight loss in both fat and muscle
- Myostatin is a highly validated key negative regulator of muscle mass¹
- Inhibition of Myostatin function drives significant muscle growth without apparent adverse health effects
- Beyond its effects on muscle, Myostatin plays a role in the regulation of total body fat mass²

Binding of Myostatin to cells leads to muscle atrophy



Blocking of Myostatin leads to muscle growth





1. Schuelke M. (2004). New England Journal of Medicine 350(2682–2688). 2. Deng, B. (2017). Nutrition and Metabolism, 14(29).

IBIO-600: A Long-Acting First-in-Class Anti-Myostatin Antibody

First Anti-Myostatin Antibody With a Target Product Profile Specifically Tailored for an Obese Patient Population



Long-Acting Anti-Myostatin Antibody

First-in-class innovation: First Myostatin therapy tailored for large, chronic disease populations

Convenient Dosing: Half-life extension anticipated to support dosing every 2-3 months **Broad Potential:** Opportunities for expansion into sarcopenia, frailty, and other agerelated disorders

Highly Developable: Resistant to various stress conditions, improved expression, high thermostability¹



Target product profile characteristics for obese patients

- Well-tolerated for long-term use
- Infrequent subcutaneous selfadministration



Al-enabled CDR design

- Rapidly generates novel IP
- Large library of novel lead molecules



Single-shot multi-dimensional lead optimization

Optimized for affinity, half-life and manufacturability



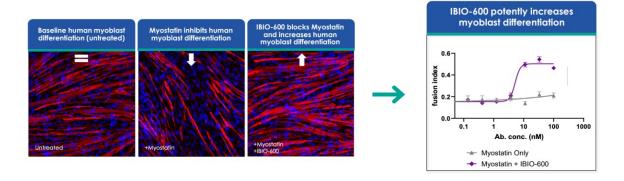
1. Data on file

IBIO-600 Increases Muscle Differentiation in Primary Human Myoblast Cells

Red indicates muscle cell growth and development (as measured by myoblast differentiation)

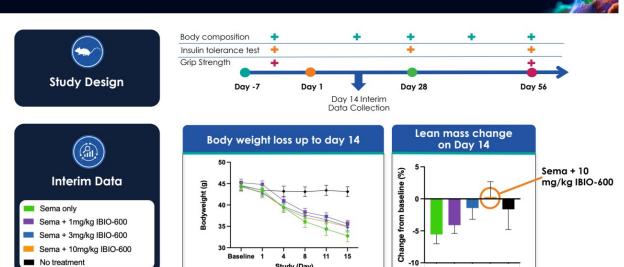


The human Myoblast differentiation model is highly predictive of muscle growth in humans





Interim Data: IBIO-600 Preserves Muscle Mass in GLP-1 Treated Diet Induced **Obesity Mice**



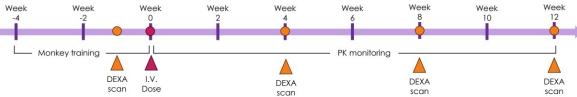
Study (Day)



In this study the murine surrogate antibody of IBIO-600 was used

IBIO-600 Pharmacokinetics (PK) Study in Non-Human Primates (NHPs)





Study details

- Obese, aged NHPs
- Performed at Kunming Biomed International (KBI)
- Material produced transiently by Wuxi Biologics

Study design

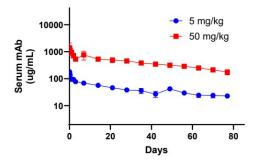
- N=3 per group
- 2 arms, single I.V. dose
 - 5mg/kg
 - 50 mg/kg
- DEXA scan for body composition every 4 weeks
- Periodic PK sampling



IBIO-600 Fc Engineering Drives Extended Half-Life in Obese NHPs



12 Week Pharmacokinetics Data¹



IBIO-600 Fc engineering results in enhanced FcRn binding

Clone	Fc	Fold increase over standard IgG
IBIO-600 FAB	Standard IgG4	1.0
IBIO-600	Engineered IgG4	16.5

IBIO-600 demonstrates extended half-life in NHPs

Dose	t _{1/2} (days)
5 mg/kg	52.4
50 mg/kg	40.7

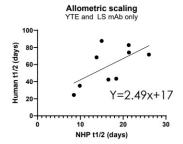


1. Linear elimination phase used to estimate half-life with simple linear model

Allometric Scaling Suggests Meaningfully Extended Half-Life for IBIO-600 in Humans



Allometric scaling model for half-life extended antibodies¹



Generic allometric scaling model for antibodies²

$$\mathsf{T}_{1/2\mathsf{Human}} \!\!= \mathsf{T}_{1/2\mathsf{NHP}} \, \mathsf{x} \! \left[\!\!\!\begin{array}{c} \mathsf{Human\ Body\ Weight} \\ \mathsf{NHP\ Body\ Weight} \end{array} \!\!\!\right]^{0.15}$$

Measured NHP and predicted human half-life of IBIO-600

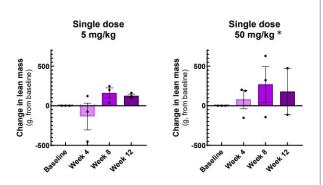
Dose	NHP t _{1/2} (actual)	Human t _{1/2} (predicted) ^{1,2}
5 mg/kg	52.4	74-130 days
50 mg/kg	40.7	57-101 days



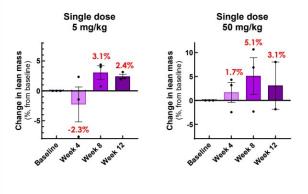
Lean Mass Peaks at 8 Weeks Remains Elevated at 12 Weeks After a Single IBIO-600 i.v. Injection



Lean Mass Increase in Grams



Lean Mass Increase in Percent

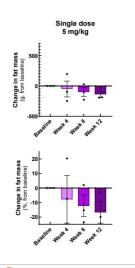


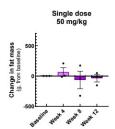


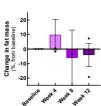
Data on file

Fat Mass between Thigh and Abdomen is Reduced After a Single I.V. Dose of IBIO-600



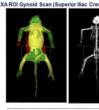


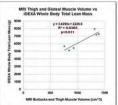


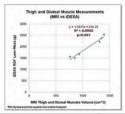


Region of Interest (ROI) DEXA Analysis of Gluteal and Thigh Regions Correlates Better with MRI Data¹



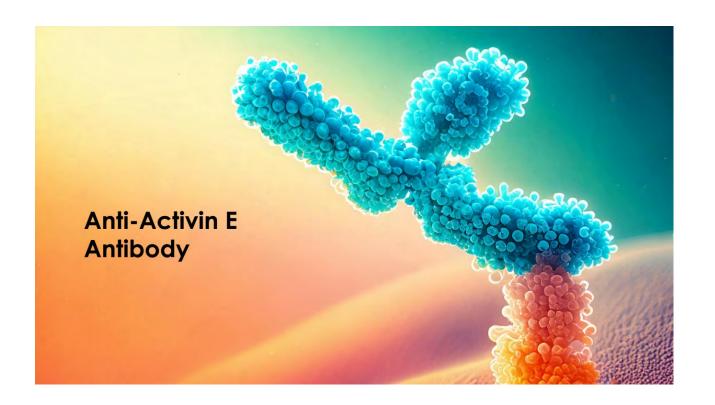








1 Data on file



Activin E Antagonism

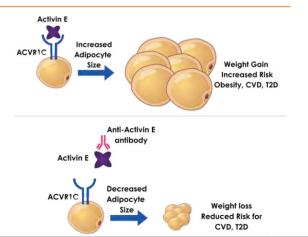
Attractive Fat-Specific Weight Loss Mechanism with Excellent Compatibility for Bi-Specific Pairing with Anti-Myostatin



We are developing inhibitors of Activin E to promote fat-specific weight loss, either as a standalone drug or as a bi-specific antibody with Myostatin.

Why We Target Activin E

- · Activin E is a Hepatokine, produced in the liver and a member of the TGFB family
- Activin E and its receptor are highly genetically
- Genetic loss of function decreases adiposity and risk for Diabetes / Cardiovascular Disease (CVD)
- 2 RNA targeting molecules provide preclinical pharmacological validation
- Challenge to produce active recombinant Activin E until recently has proven to be extremely difficult for antibody discovery





Type 2 Diabetes (T2D)

iBio's AI-Enabled Epitope Steering Engine Bypasses Recombinant Activin E, Creating Functional Antibodies Directly from the Target Sequence

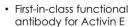


Activin E Antibody

Innovative AI solution: Epitope steering engine overcame the challenge of full-length Activin E unavailability, creating a first-in-class antibody targeting Activin E Convenient Dosing: Half-life extension potentially enables dosing every 2-3 months Versatile Combinability: Easily integrates with other TGFβ family targets into bi-specific antibodies, offering a potential alternative to incretin drugs (fat-specific weight loss with increase in muscle mass)



Al epitope engineering breaks barrier to discovery





molecules

Al-enabled CDR design

· Rapidly generates novel IP

Large library of novel lead



Single-shot multi-dimensional lead optimization

Optimized for affinity, half-life and manufacturability



iBio's Al Engineered Epitope Engine Delivers a First-in-Class Functional Activin E Antibody



We have **uniquely solved an industry-wide problem** with our proprietary epitope engineering engine to create functional Activin E antibodies

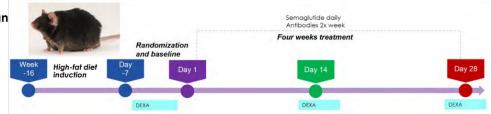




Preclinical Study: Activin E Antibody in Combination With GLP-1 in Diet-Induced Obese Mice



Study Design



Treatment Arms

- · Group 1: Vehicle / Vehicle
- Group 2: Vehicle / iBio Activin E mAb
- Group 3: Semaglutide / Vehicle
- Group 4: Semaglutide / iBio Activin E mAb

Study Details

- Activin E mAb: Mouse IgG1, human VH and VL
- Semaglutide: 40ug/kg (mimics human dose), daily
- iBio Activin E mAb: 10mg/kg, 2x/week
- Body composition (DEXA) and multiple terminal endpoints
- · Ten mice per group



2 Week Interim Data: Activin E Antibody Alone and in Combination with GLP-1Causes Fat-Specific Weight Loss



Body weight change

Days

(2-week interim data)

-3.6%

Group 1 (Veh/Veh)

Group 2 (Veh/mAb)

Group 3 (Sema/Veh)

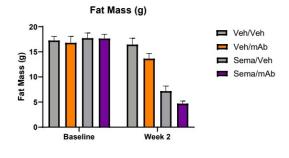
Group 4 (Sema/MAb)

-25.2%

-34%

-34%

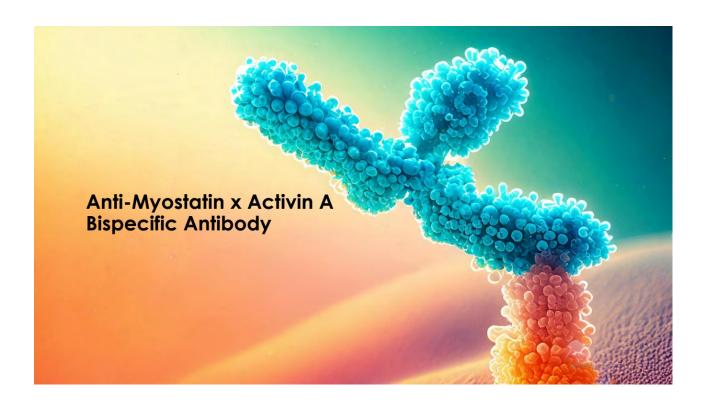
14





Difference in baseline-corrected body weight (vs control per time point, mean ± SE)

Data on File



Combined Myostatin and Activin A Antagonism

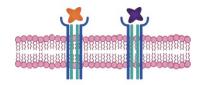
Synergistic Effect on Muscle Growth and Potential Treatment for Pulmonary Hypertension (PH) in Heart Failure With Preserved Ejection Fraction (HFp

For obesity, we are developing bi-specific **co-inhibitors of Myostatin and Activin A** to **enhance muscle growth** and **improve quality of weight loss** during and after treatment with incretin drugs

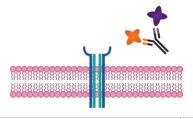
Why Myostatin & Activin A

- Myostatin and Activin A are key negative regulators of muscle mass
- Both are members of the TGF\$ superfamily
- Activin A mechanism is pharmacologically validated^{1, 2}
- Combined Activin A and Myostatin inhibition, causes more pronounced muscle growth³
- Myostatin and Activin A inhibition are key features for treating PH-HFpEF

Binding of Myostatin and Activin A to cells leads to muscle atrophy



Simultaneous blocking of Myostatin and Activin A leads to muscle growth





Villanueva, J. et al. Am J Cardiovasc Drugs (2024).
 2.US20220119514A1, Regeneron corporate slides
 3.Latres, E. et al. Nat Commun 8, 15153 (2017).

A Long-Acting First-in-Class Anti-Myostatin x Activin A Bispecific Antibody



Myostatin x Activin A Bi-specific

First-in-class innovation: Myostatin x Activin A bispecific antibody with unique therapeutic potential

Convenient Dosing: Half-life extension potentially enables dosing every 2-3 months Optimize Potency: Higher-valency antibody format might increase potency and reduce dose

Potential Advantage: May avoid BMP* inhibition, minimizing bleeding risks associated with ligand traps





Al-enabled CDR design



Single-shot multi-dimensional lead optimization

- Well-tolerated for long-term use
- Infrequent subcutaneous selfadministration
- · Generates novel IP
- Large library of novel lead molecules
- Bi-specific optimized for affinity, half-life and manufacturability



*Bone Morphogenetic Proteins

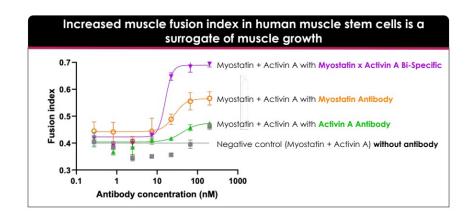
iBio's Myostatin and Activin A Bi-Specific Targets Both Key Negative Muscle Regulators, Synergistically Increasing Muscle Mass



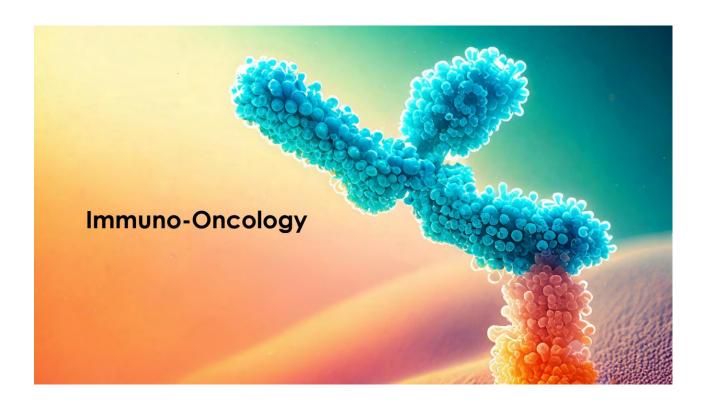


In Vitro Data

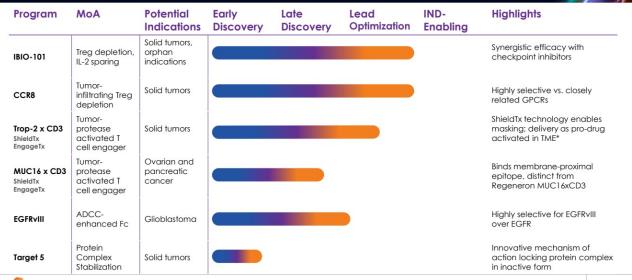
Only a Myostatin x Activin A bi-specific antibody fully blocks both muscle growth suppressors, enabling optimal growth, while single-target antibodies fall short







Beyond Cardiometabolic – Driving Value Within Our Oncology Pipeline





*Tumor Micro Environment

A Leadership Team with Deep Industry Experience





 $\begin{array}{c} \textbf{Martin Brenner, DVM, Ph.D.} \\ & \texttt{CEO} \ \& \ \texttt{CSO} \end{array}$











Felipe Duran



teva noven





Marc Banjak

CLO











Kristi Sarno

Senior VP BD

HOMOLOGY

PFENEX

Latham

• Crucell





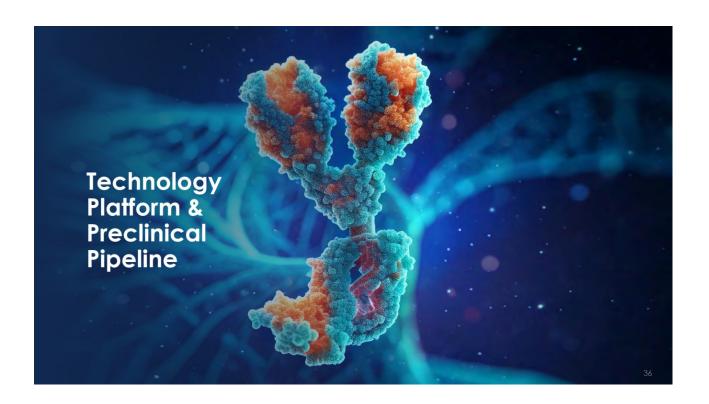
Corporate Highlights

- Patented Al-driven Discovery Tech Stack which can:
 - Rapidly advance a highly developable pre-clinical pipeline
 - Solve hard-to-drug problems
 - Pipeline of cardio/obesity rapidly progressing
 - Pipeline of immunooncology molecules ready for strategic partners

Financial Highlights

- \$7.2M in Cash and Restricted cash as of Dec 31, 2024
- 10.07M shares outstanding as of Feb 11, 2025







iBio's Tech Stack Aims to Solve Major Challenges in Antibody Discovery & Development





Epitope Steering

Unlocking Novel Biology

Pursuit of Elusive Targets

GPCRs, Ion Channels, Protein Complexes

Complex modalities Agonistic Antibodies,

Cell Activators,
Protein Complex
Stabilizers



Proprietary Naïve mAb Library



StableHu & Mammalian Display

Improved Speed and Developability

Fully human Ab

Reduced immunogenicity risk by clinically validated Ab frameworks

Speed

Rapid hit ID vs immunization campaigns

Improved Developability

Known sequence liabilities eliminated

Library Diversity

ML tools create focused diversity with smaller library size

Speed

Simultaneous, Multi-Dimensional Optimization

Improved Developability

Mammalian Display with production cell lines exclusively yields expressible clones



Optimized Antibody Leads

Reduced Lead-Optimization Time Optimization in less than **4 weeks**

Minimized Developability Risk Mammalian Display in Manufacturing Cell Line

Potential for Improved Safety

Selective "on-tissue" action of masked antibodies

First in Class Antibodies and / or Best in Class Antibodies



iBio's Tech Stack Addresses Immuno-oncology Discovery and Development Challenges





2nd Gen T-cell Engager Panel

Sequence Diversity

Increased humanness and broad CD3 activity for optimized pairing with antigen arms

Hu-Cyno Cross Reactivity

Risk reduction via cyno monkey toxicity study compatibility

Range of Cytokine Release

Tailored cytokine release for expanded therapeutic window



ShieldTx

Greater Safety With Tissue Specificity

Seamlessly Integrated Ab Masking

Engineered epitopes serve dual purpose for raising and masking of Abs

Flexibility in Candidate Selection

Simultaneous co-optimization of Ab, mask and linker provides maximized flexibility in candidate selection



Enhanced Efficacy and Safety of I/O Antibody Leads

Finely tuned T-cell engagement

Adjustable T-cell engagement to fit any tumor target engager

Improved safety prediction

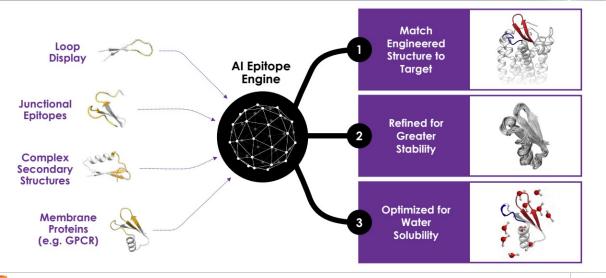
Cyno cross reactivity allows for better preclinical safety assessment

Improved Safety Profile

Tissue selective action through "smart", conditionally activated, antibodies

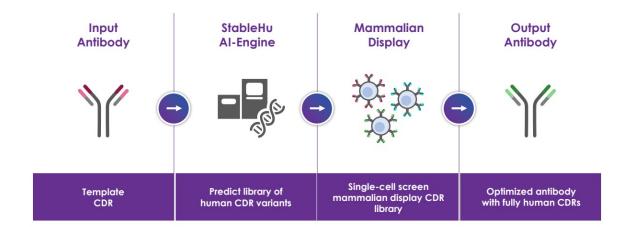


Unlocking High-Value Drug Targets: Al-Engineered Epitopes are Generalizable to a Broad Set of Complex Structural Drug Binding Sites





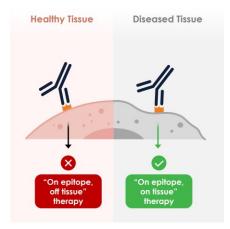
Accelerate Success: StableHu Antibody Optimization & Mammalian Display Screening Propel Faster, Cost-Effective Antibody Development

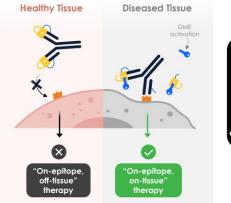




"Smart" Antibodies: ShieldTx Conditionally Activated Antibodies Strive to Improve Safety by Selectively Targeting Diseased but not Healthy Tissue



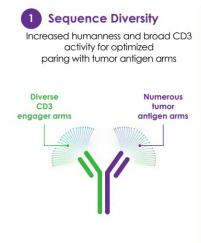


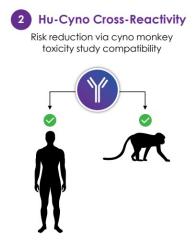


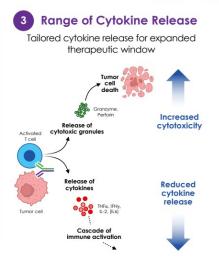


EngageTx, a CD3-Based T-Cell Engager Panel, Addresses 3 Key Challenges: Cytokine Release, NHP Cross-Reactivity and Immunogenicity Risk





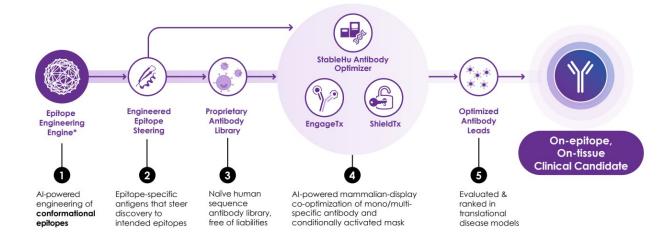






iBio's Platform Tackles Discovery Challenges for the Next Era of Antibodies







* U.S. Patent No. 11,545,238 (issued January 3, 2023)



IBIO-101 for Regulatory T-Cell (T_{reg}) Depletion





Depletion of immunosuppressive T_{regs} via antibody dependent cellular cytotoxicity (ADCC), without disrupting activation of effector T-cells (T_{effs}) in the tumor microenvironment

Potential Indications

- Solid tumors
- · Hairy cell leukemia
- · Relapsed mult. myeloma
- Lymphoma
- · Head & neck cancer

- Differentiation / Opportunity

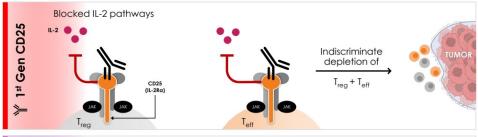
- IL-2 sparing anti-CD25 antibodies enables depletion of T_{regs} without affecting T_{effs}
- Fast-follower to Roche's RG6292 clinical molecule





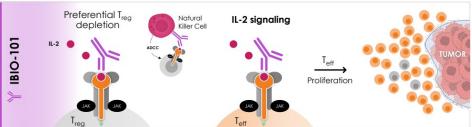
*Roche acquisition of Tusk Therapeutics completed for €70M upfront, acquiring worldwide rights to anti-CD25 program. Values converted to dollars as reported in public press releases
**Data presented by Roche at AACR 2023

IBIO-101 Reduces Tumor Growth in Preclinical Studies by Selectively Depleting Immunosuppressive $T_{\rm regs}$ without Affecting Cancer Killing $T_{\rm effs}$



1st gen CD25 mAbs depleted immunosuppressive T_{reg} <u>and</u> immuno-stimulatory T_{eff}

Limited efficacy



 $2^{\rm nd}$ gen IBIO-101 selectively targets $\rm T_{\rm regs}$ without blocking IL-2 signaling to $\rm T_{\rm effs}$

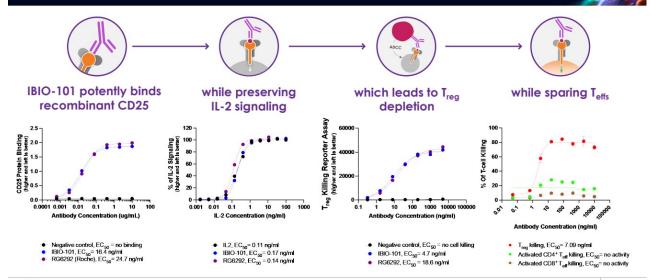
Strong preclinical anti-tumor response



Data on file. Treg = Regulatory T Cells; Teff = Effector T Cells; ADCC = Antibody Dependent Cellular Cytotoxicity

4/

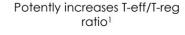
IBIO-101 Selectively Depletes Tregs



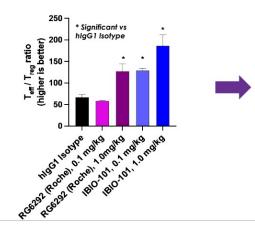


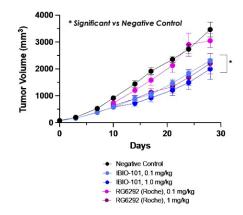
IBIO-101 Increases in $T_{\rm eff}/T_{\rm reg}$ Ratio in Preclinical Studies Inhibiting Tumor Growth





Tumor growth inhibition correlates with T-eff/T-reg ratio

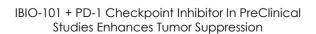


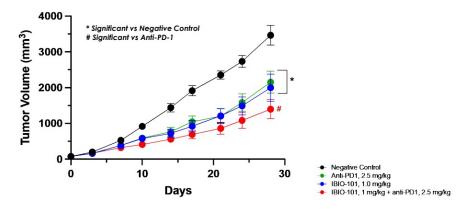




¹hCD25 animal model - Data on file

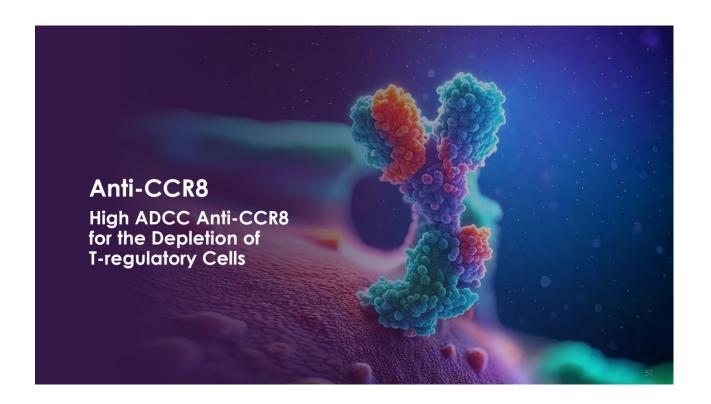
IBIO-101 in Combination With a Checkpoint Inhibitor Shows Greater Efficacy







*hCD25 animal model - Data on file.



CCR8 for Tumor-Infiltrating T_{reg} Depletion





Tumor-infiltrating Tregs highly express CCR8. iBio program targets depletion of highly immunosuppressive CCR8+ Tregs in tumor microenvironment via an ADCC mechanism.

Potential Indications

- Broadly applicable in solid tumors
- Prospective combination therapy

·<u>Q</u>· Differentiation / Opportunity

 Selective binding to CCR8 over its close homolog, CCR4





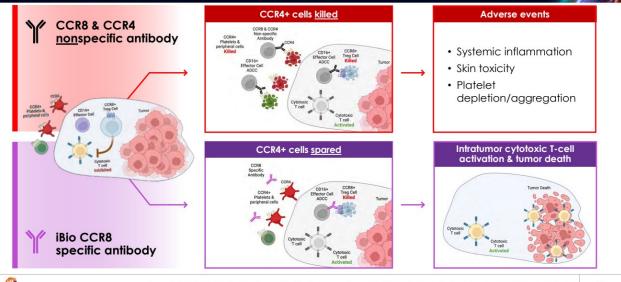
*Fibrogen | HiFiBio: Fibrogen purchased option to multiple programs in June 2021, then exercised the option for excl. license to CCR8 program in Dec. 2021.

***Gliead | Jounce: Exclusive worldwide license to anti-CCR8 antibody.

*** Coherus | Surface Oncology: acquisition, announced in June 2023, adds two clinical assets, including a phase 2 anti-IL-27 and a phase 1/2 anti-CCR8 for oncology.

CCR8+ T_{reg} Cells Are Tumor Infiltrating and Highly Immunosuppressive

Depletion of CCR8+ Treg cells has potential to evoke potent tumor immunity

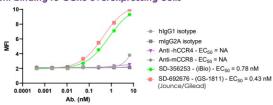


Zheng, et al. Cell 169.7 (2017): 1342-1356; Whiteside, et al. Immunology 163(4) (2021): 512-520; Kidani, et al. PNAS 119(7) (2022): e2114282119

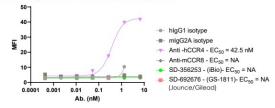
Afucosylated Anti-CCR8 Antibody Exhibits High Specificity, CCL1 Antagonism and CCR8-Specific Cell Killing

High Specificity CCR8 Cell Binding

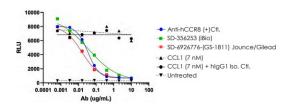
Potent binding to CCR8 overexpressing cells



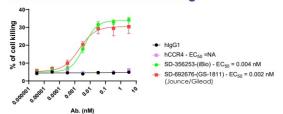
No binding to CCR4 overexpressing cells



CCR8-CCL1 Antagonism



PBMC-Induced CCR8 Cell Killing

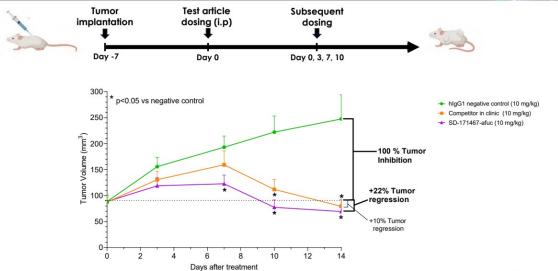




Data on file

iBio's CCR8-Specific High ADCC Antibody Induces Tumor Regression in a Transgenic Human CCR8 Mouse Model









Next Generation Anti-CD3 T Cell Engagers





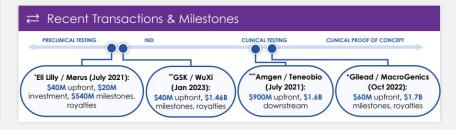
T-cell-redirecting bispecific antibodies are a new therapeutic class that simultaneously targets CD3 on T cells and tumor antigens, inducing T cell mediated tumor cell killing

Potential Indications

- Broad solid tumor potential
- Expands therapeutic options across programs

<u>Ö</u> Differentiation / Opportunity

- Range of T cell activation for diverse tumor antigens
- Cyno-tox study compatibility
- StableHu optimized sequence reduces downstream risks

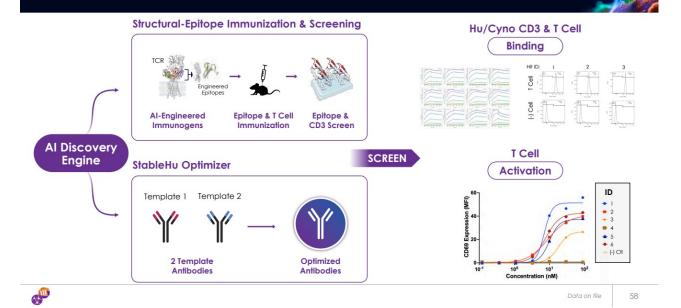




"Billly / Merus: Fibrogen Research collaboration using Merus" proprietary platform to develop up to three CD3-engaging Toell re-directing bispecific antibody theraps
"193K Wulk Lieansed Wilds precinact CD3 specific plat 3 active toge progra
"*Amgen / Tencebic: Tencebic was developing a heavy-chain only platform as well as its CD3 engager technology. NR-855, the lead program, was in plate
4 client of MaramGenics Claiding a forested and only AMCD924, a phase L CD3 bispecific plus a collection was additional severen to man.

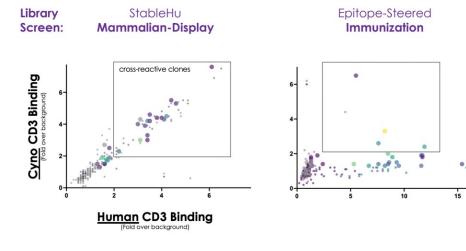
5.

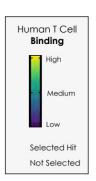
Dual Approaches to a Diverse Panel of Anti-CD3 Antibodies



Libraries and Screens Discover Hu-Cyno CD3 Cross-Reactive Antibodies





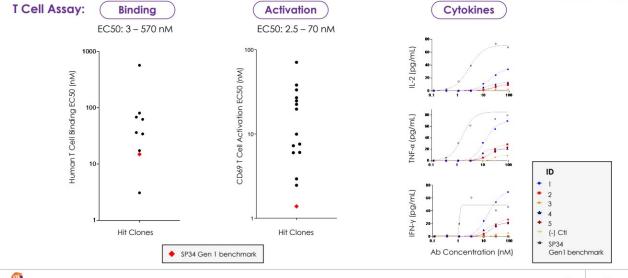




Data on file

EngageTx is Selected for a Diversity of T Cell Binding and Activation







On-Target-Off-Tissue Side Effects Severely Limit The Potential of Existing And Future Antibodies

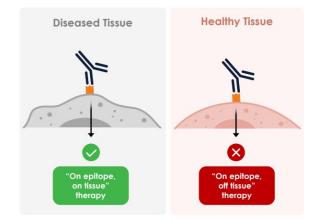


"(...) targeting antibody delivery to selected organs and tissues (...) represents a major unmet challenge that if ultimately solved may rewrite medical textbooks" - Paul J. Carter and Arvind Rajpal, Cell, 2022.

Even exquisitely specific antibodies fail in clinical trials by doing exactly what they are asked to do – hit the target. The problem often lies in the target being also expressed on healthy tissue.

Many potential targets remain unexplored as a drug target for fear of on-epitope off-tissue side effects.

The challenge: how do we achieve disease tissue specificity while avoiding healthy tissue expressing the same epitope?





Our Engineered Epitopes Provide an Integrated Solution for Identifying <u>And</u> Subsequently Masking Antibodies



Antibodies are activated by the removal of the mask in the diseased tissue.

Masks can be removed by tumor-specific enzymes, pH, redox state, and disease-specific metabolites.

The technology can be employed for other indications i.e. inflammatory and auto-immune diseases.







Antibodies remain inactive in healthy tissue

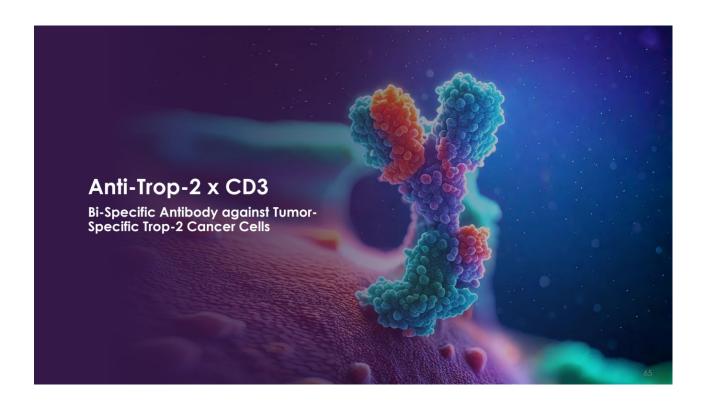


DME: Disease Micro Environment

Masked Antibodies are a Proven Concept and iBio's Platform has the Potential to Solve Key Remaining Challenges

	THE PROBLEM	OUR SOLUTION
Discovery process	Separate antibody and mask discovery process is inefficient	Co-discovery of epitope-steered antibody and mask is more efficient
2 Masking performance	Separate discovery processes does not co-evolve an optimal antibody, mask, linker combination	Co-evolution of libraries of antibody, mask and linker for maximized effectiveness of masking and unmasking
3 Developability	Antibody + mask + linker combinations not screened for high developability in production cell lines	Mammalian-display libraries of antibody, mask and linker combinations screened for developability in production CHO cell lines
4 Immunogenicity	Random peptide or anti-idiotype masks increase masked antibody immunogenicity risk	Engineered epitope masks are designed with intention to maximize the natural sequence of the epitope and minimize immunogenicity





Trop-2 x CD3 Bi-Specific Antibody Potentially for Head & Neck and Other Cancer





Select killing cancer cells that up-regulate Trop-2 expression while improving safety margin in reducing cytokine release syndrome (CRS)

Potential Indications

- · Head & neck cancer
- · Lung cancer
- Ovarian cancer
- Breast cancer
- · Pancreatic cancer

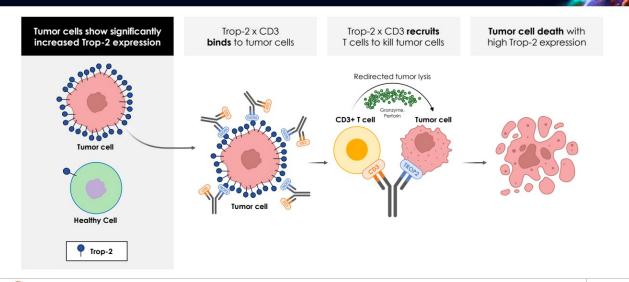
-Q- Differentiation / Opportunity

- Novel Trop-2 epitope with extreme high affinity to target
- Trop-2 binder with mouse/cyno/human cross reactive enables early safety profile optimization
- Optimal iBio CD3 engager with low CRS and cyno/human cross reactive





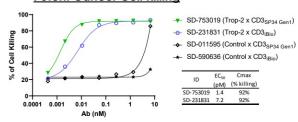
Trop-2 x CD3 Bi-Specific Antibody Selective Target Overexpress Trop-2 Cancel



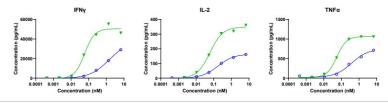
iBio's Trop-2 x CD3 Bi-Specific Antibody Potently Kills Tumor Cells with Low Cytokine Release



Potent Cancer Cell Killing



Minimal Cytokine Release

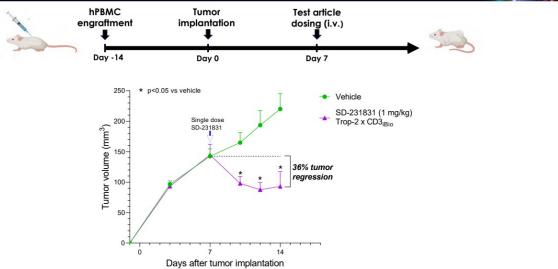




Data on file

A Single Dose of iBio's Bispecific Trop-2 x CD3 Antibody Induces Tumor Regression in a Humanized Mouse Cancer Model



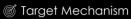


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MUC16 Potentially for Ovarian and Other Cancers





Bind a membraneproximal MUC16 epitope

Membrane-proximal binding avoids epitope elimination by tumors

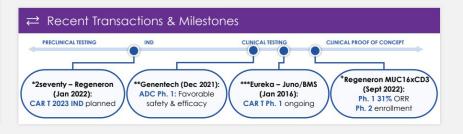
Bind a non-glycosylated epitope to avoid altered glycosylation on tumors

Potential Indications

- Ovarian
- Uterine
- Pancreatic

· Differentiation / Opportunity

- MUC16 epitope avoids primary modes of tumor evasion
- Enabling modalities: T Cell engager, ADC, CAR-T





Regeneron, 2seventy name the target of their first solid tumor CAR-T, aim for 2023 IND

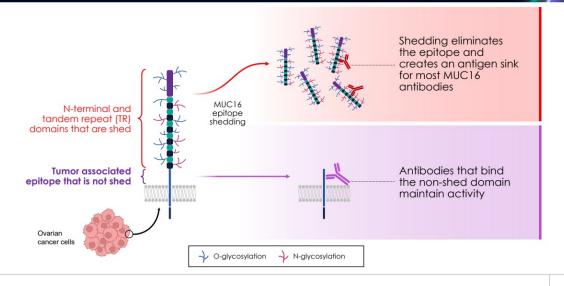
** Liu et al., An open-lobel phase I dose-escalation study of the safety and pharmacostinetics of DMUC4064A in patients with platinum-resistant ovarian cancer

"Eureka Therapeutics Announces Exclusive License Agreement between Memorial Sloan Kettering Cancer Center and Juno Therapeutics for Use of a Novel, Fully-tumon MUC18 Binder in CAR T Cell Immunotherapy

*Novel Regeneron Bispecific Antibodies Show Encouraging Anti-Tumor Activity in Two Advanced Solid Tumors

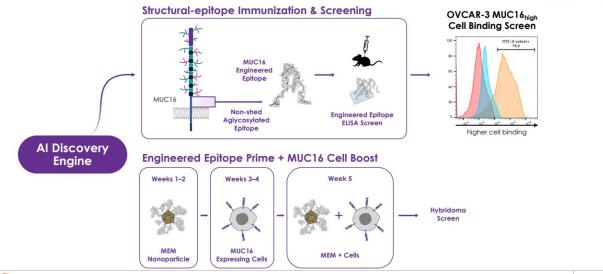
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MUC16 Is Overexpressed and Shed by Tumor Cells





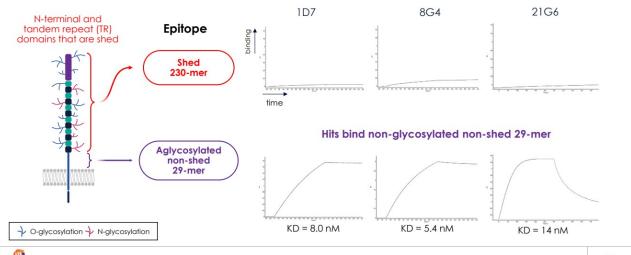
Immunizations Were Steered to a MUC16 Epitope that Avoids Epitope Shedding



Top Three Hit Clones Bind the Non-Glycosylated MUC16 Epitope Closest to the Membrane





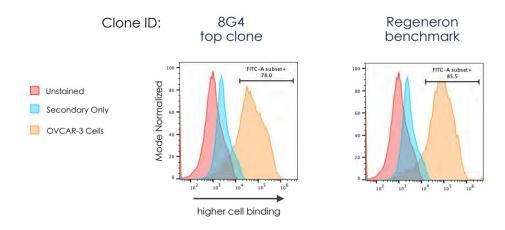




Data on file

Top MUC16 Clone 8G4 Binds OVCAR-3 Cells Comparable to Regeneron Benchmark







Data on file

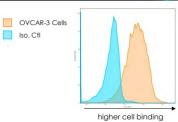
8G4 Clone Maintains OVCAR-3 Cell and MUC16 Epitope Binding in a Fully Human Framework



8G4 with fully human framework reduces immunogenicity risk

Cell binding

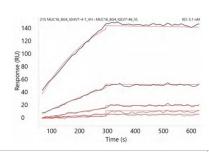
Iso. Ctl



Glycosylated MUC16 membraneproximal epitope SPR:

KD = 5.1 nM

Epitope binding

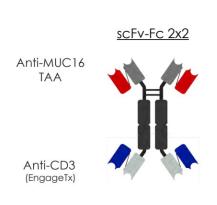


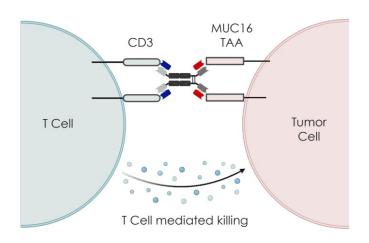


Data on file

Efficient Expression with 2x2 Format: Anti-CD3 x MUC16 Bispecific T-Cell Engagers

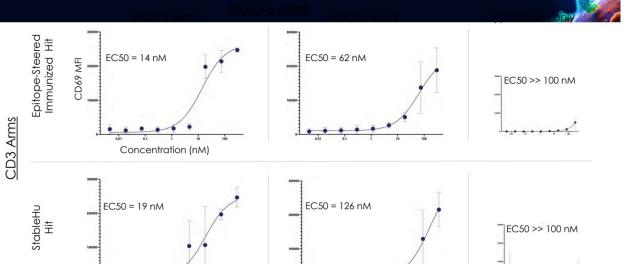






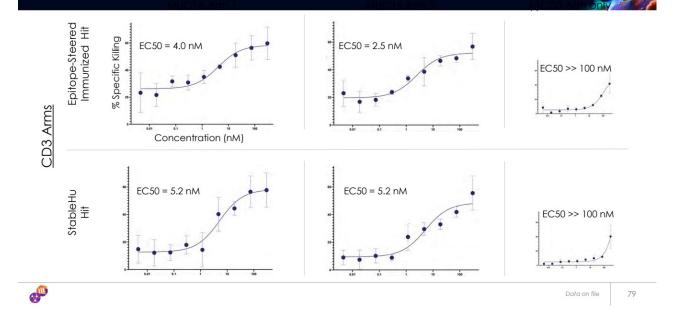


2X2 Anti-CD3 X MUC16 T Cell Engagers Stimulate T Cells in Donor PBMCs

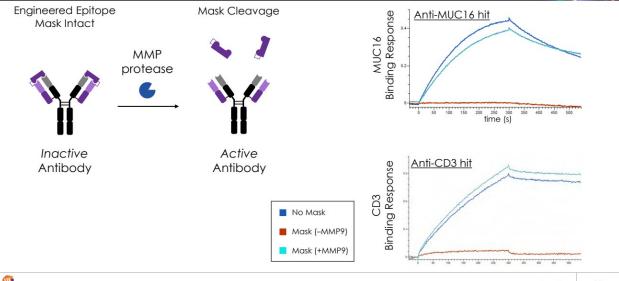


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2X2 Anti-CD3 X MUC16 T Cell Engagers Kill OVCAR-3 Ovarian Cancer Cells



ShieldTx Engineered Epitope Mask Conditionally Activates MUC16 and CD3 Hits







EGFRvIII Potentially for Glioblastoma and Other Cancers





Binding a tumorspecific mutation of EGFR variant III with an afucosylated antibody for high ADCC.

EGFRVIII is constantly "switched on" which can lead to the development of a range of different cancers.

Potential Indications

- Glioblastoma
- · Head & neck cancer
- · Non-small cell lung cancer

Differentiation / Opportunity

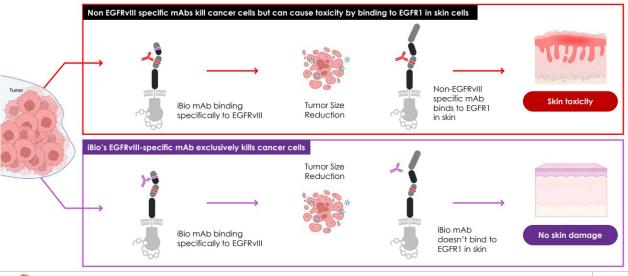
- Novel EGFRvIII high ADCC mechanism, potentially further reducing toxicity & expanding therapeutic window
- Other enabling modalities: T Cell engager, ADC, CAR-T





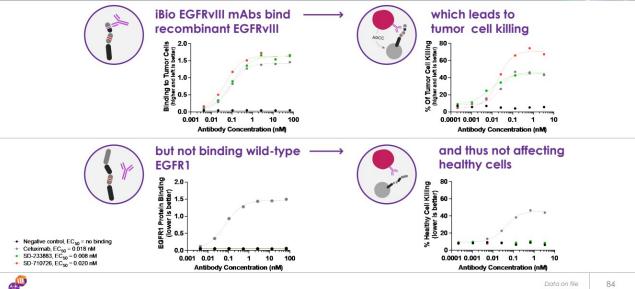
* Pierre Fabre / Scorpion: Scorpion licensed two preclinical-stage programs to Pierre Fabre which are targeted to specific EGFR mutations in lung cancer.
"Seagen transaction with LAVA Therapeutics was an exclusive license to LAVA-1223 (EGFR program), plus additional projects using Lava's platform.
***Taiho transaction to acquire Cullinan Oncology's subsidieny. Cullinan Pearl, which has worldwide rights outside of Japan to CLN-881 (TAS4417 (EGFR mutant) mab.)

iBio's Anti-EGFRvIII mAbs Selectively Kill EGFRvIII-Positive Tumor Cells and Not EGFR1-Expressing Cells in Healthy Tissues



Data on file

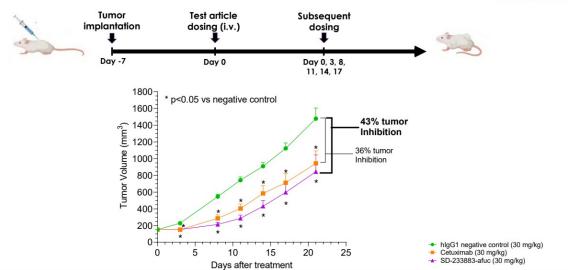
iBio's EGFRvIII-Selective mAbs Kill Tumor Cells without Affecting Healthy Cells

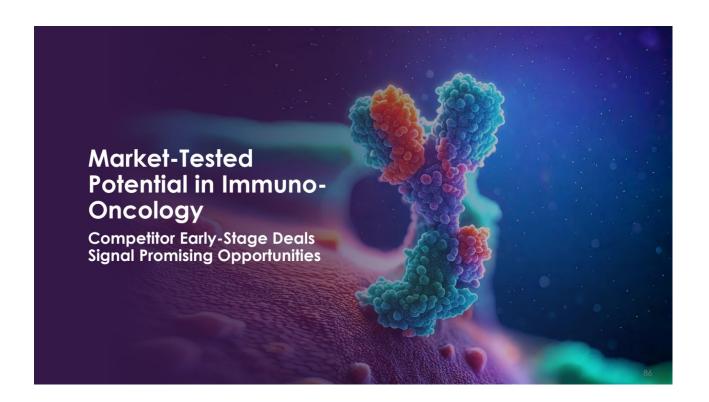




iBio's EGFRvIII-Specific High-ADCC Antibody Inhibits Tumor Growth in an EGFRvIII Tumor Xenograft Mouse Model







Market-Tested Potential: Immuno-Oncology Early-Stage Deals

