



## **Make Your Own Technology**

An exciting, innovative delivery platform  
for Antibodies and Therapeutic Proteins

January 9, 2024

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## Executive Summary

Potential paradigm shift in delivery of antibodies and therapeutic proteins for treatment of chronic diseases and prevention of infectious diseases.

**MYO**  
TECHNOLOGY



**Intramuscular electroporation of plasmid DNA enables durable, in vivo production of antibodies and therapeutic proteins**

### Company and financing overview

\$4M Series Seed

\$24M Series A

\$13M Nondilutive grants

Located in New York City

13 Employees

- ✓ Patent-protected platform technology
- ✓ Substantial commercial potential identified across a variety of indications
- ✓ Established clear proof of concept
- ✓ Able to support a wide variety of payloads
- ✓ Solves supply and distribution challenges associated with biologics
- ✓ Early clinical development funded by government agencies in Zika prevention



**Rachel A. Liberatore, PhD**  
President & Chief Scientific Officer

BA in Molecular Biology from Princeton University |  
PhD in Cellular & Molecular Biology from Columbia University | 10+ years in scientific leadership and team management



**Yaoxing Huang, PhD**  
Co-founder and Scientific Advisor  
Associate Professor, Columbia University

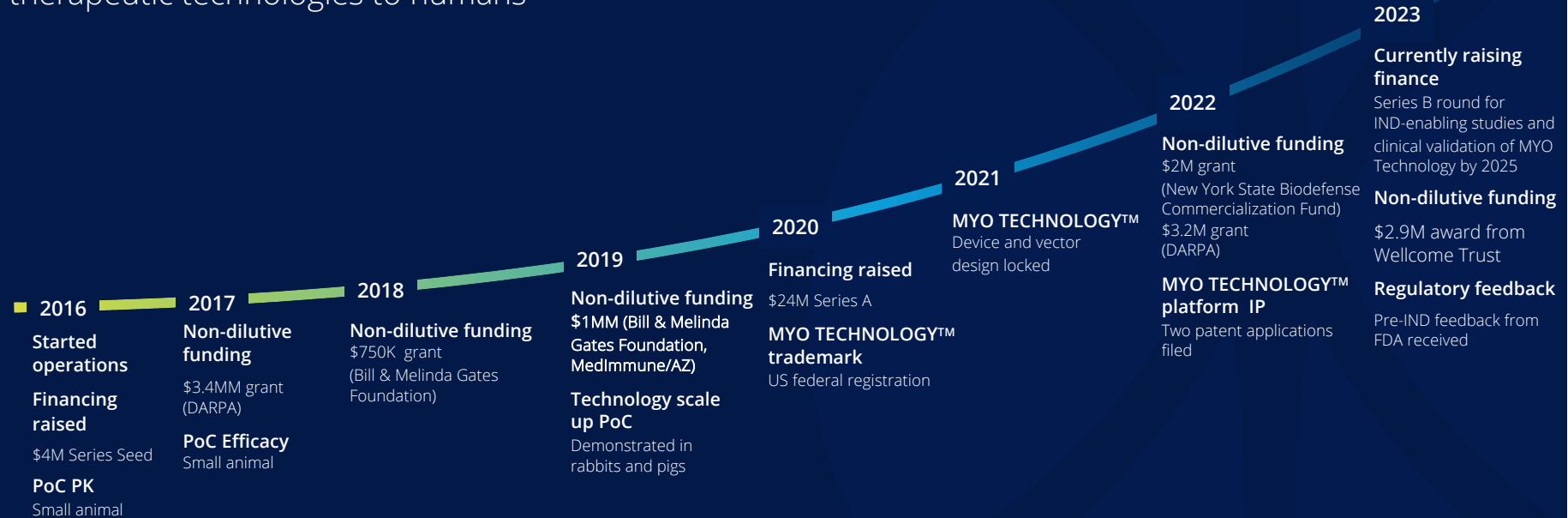


**David D. Ho, MD**  
Co-founder and Scientific Advisor

Professor, Columbia University & Director,  
Aaron Diamond AIDS Research Center |  
Scientific Founder, TaiMed Biologics (US FDA approved Trogarzo®) | Time Man of the Year

# Our story

Considered, steady progress built on a solid foundation to advance the delivery of first-in-class and best-in-class DNA therapeutic technologies to humans



## There remain high levels of unmet need for the optimal development, supply, and use of antibodies and therapeutic proteins today

A faster, smoother, and cost-effective delivery platform would address many of these needs

### Challenges that remain

Therapies with **short half-lives** require **frequent dosing** and ongoing monitoring, leading to inefficient clinic workflows and a risk of suboptimal efficacy and tolerability



Specialized production, purification and cold-chain requirements for transport and storage, drive long production lead times, complicate supply and distribution, and result in an unnecessarily **high COGs**



### Meeting the need

Improving clinical utility for healthcare professionals by significantly reducing clinical workload with **easier, less frequent dosing**, negating the need for regular infusion clinics, reducing the burden of patient monitoring, and guaranteeing **real world efficacy** that meets that seen in clinical trials as patient adherence is no longer part of the equation

Reducing the COGs and ensuring flexible, fast product supply, distribution and storage by **simplifying manufacturing processes**, negating the need for specialized production facilities and removing any onerous **distribution and storage** criteria

Our MYO Technology™ delivery platform enables an individual to make their own antibodies and therapeutic proteins, improving on frequent dosing regimens required by conventional delivery of recombinant proteins



### Bio Blueprints

Proprietary DNA plasmid encoding antibody or protein therapeutic



### Delivery Device

Proprietary electroporation device



### Antibody Factory

An individual's muscle cells, produce antibodies or therapeutic proteins following in vivo electroporation



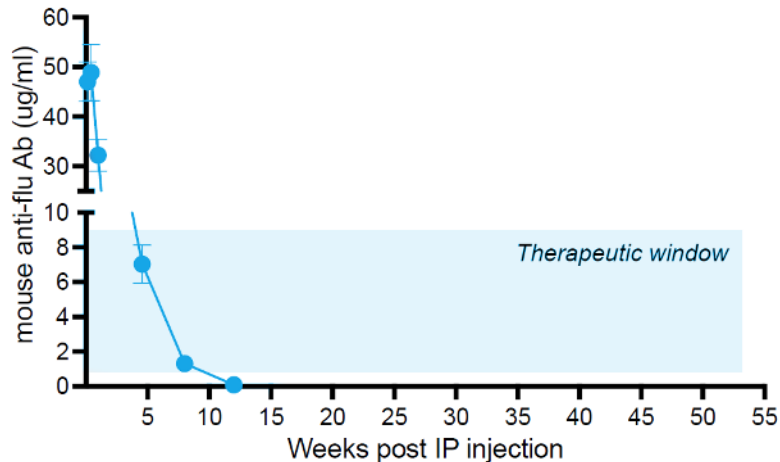
### Antibodies/Therapeutic Proteins

Circulate systemically following secretion by muscle cells

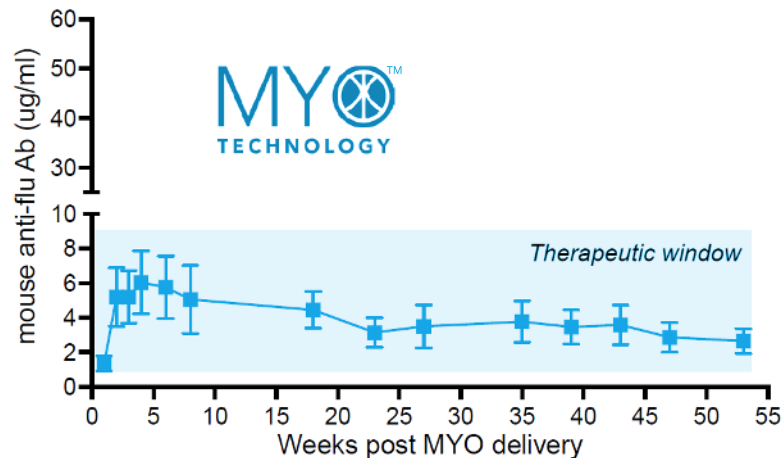
# We continue to build the evidence to demonstrate the high value of our technology platform

In vivo animal data demonstrates promise for durable delivery of a payload within the therapeutic window

### Traditional antibody protein delivery



### MYO delivery of antibody genes



Our MYO Technology™ has compelling advantages compared to other novel delivery platforms when applied to the management of systemic, chronic disease and prevention of infectious disease

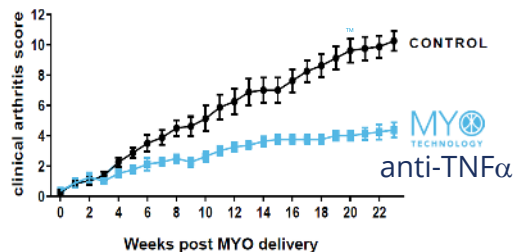
<u>Feature</u>	MYO™ Technology	mRNA	AAV Gene Therapy
Durability	Months to years	Weeks to months	Years/Permanent
Redosable	****	***	*
Large genetic payload	****	***	**
Large scale manufacturing	****	**	*
Freedom from cold chain	****	*	*
Clinical safety of technology	***	***	*
Opportunity	Systemic activity Chronic disease Tx, Infectious disease Px	Localized activity Short half-life Vaccines	Specific tissue target Genetic disease Tx



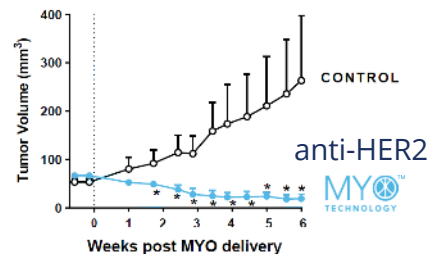
# MYO Technology™ has the potential for broad applicability

Compelling in vivo animal efficacy studies, using well accepted models, show applicability for diverse range of diseases from oncology to autoimmune

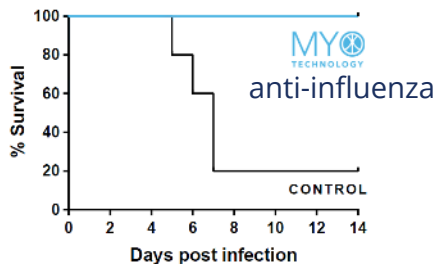
## Arthritis



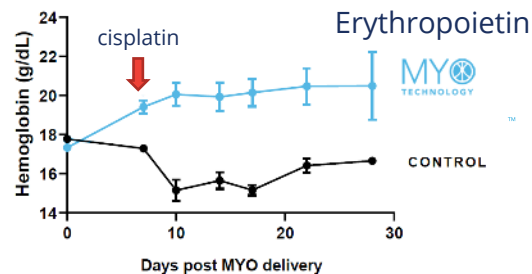
## Breast Cancer



## Influenza



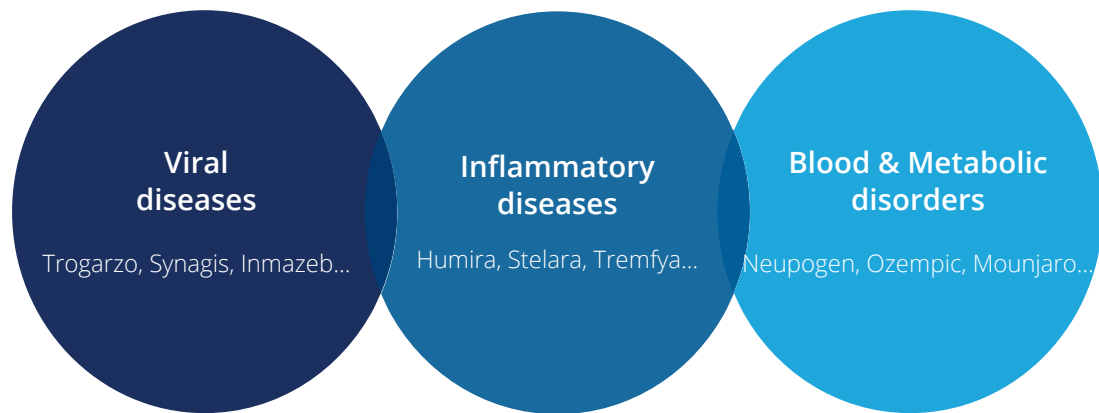
## Anemia



## Targeting high value, high growth markets

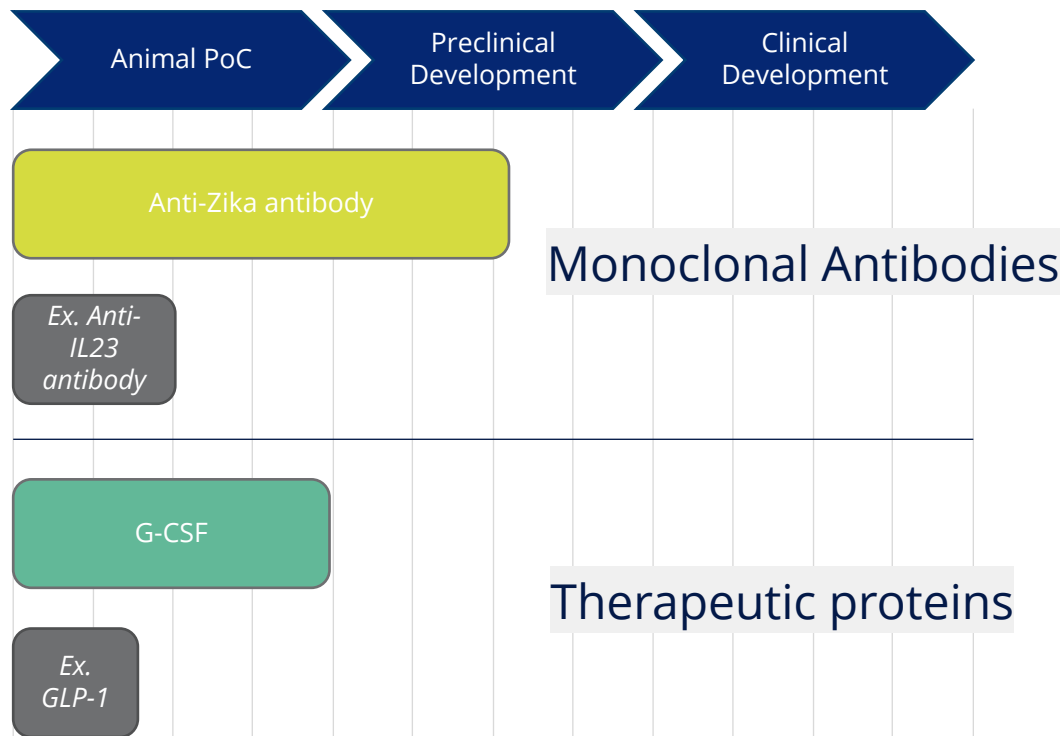
The market for antibodies and therapeutic proteins is very large with wide utility.

Growing rapidly, the global market for antibodies was valued at \$210B in 2022, with an expected CAGR of 11.04% from 2023 to 2030.



## Clinical proof-of-concept with a monoclonal antibody (Zika) and a therapeutic protein (G-CSF) will support expansion into multiple, high value markets

Phase 1 data with prototype molecules (anti-Zika monoclonal antibody and G-CSF) will demonstrate the potential for the MYO Technology platform



# Three pillars of opportunity identified for our MYO Technology™ platform

Multiple opportunities exist for biopharma partners to realize the full potential of drugs in large and rapidly growing markets

## New molecule requiring long-term delivery

Antiviral antibodies and other molecules for which durability is critical

## Life cycle management

Established brands wanting to extend dominance

## Differentiation in a competitive market

New/generic brands wanting to make an impact in crowded markets

# Clinical and Business Development Team Partners



- Martin Markowitz, MD – Clinical
  - Clinical Director and Principal Investigator on ~80 clinical trials
- Jim Ackland – Regulatory, preclinical
  - >45 years experience in development and regulatory affairs for biopharmaceuticals
- Meredith Brown-Tuttle, FRAPS – Regulatory, biologics
  - >31 years experience in regulatory affairs for biologics
- Sheila Ramerman, RAC-US, RAC-Devices – Regulatory, medical devices
  - >30 years experience in electromedical devices
- Joanne Kelley, LLB – Business Development
  - Former Vice President of Business Development, Head of Transactions at AstraZeneca
- Jill Ogden, PhD – Business Development
  - >30 years commercial/transactional expertise in biopharmaceutical industry

*Thank you*

**Help us to transform the lives of people globally**  
via the delivery of therapeutic antibodies and proteins  
enabled by our MYO Technology™, easing and  
expanding the use of these therapeutics.

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