

Enabling discovery, safety and production of tomorrow's therapeutics

NASDAQ: HBIO
HBIO Investor Overview



## Forward-Looking Statements and Non-GAAP Financial Information

#### **Forward-Looking Statements**

This document contains forward-looking statements within the meaning of the federal securities laws, including the Private Securities Litigation Reform Act of 1995. Forward-looking statements may be identified by the use of words such as "may," "will," "expect," "plan," "anticipate," "estimate," "intend" and similar expressions or statements that do not relate to historical matters. Forward-looking statements include, but are not limited to, information concerning expected future financial and operational performance including revenues, gross margins, earnings, cash and debt position, growth and the introduction of new products, and the strength of the Company's market position and business model. Forward-looking statements are not guarantees of future performance and involve known and unknown uncertainties, risks, assumptions, and contingencies, many of which are outside the Company's control. Risks and other factors that could cause the Company's actual results to differ materially from those described its forward-looking statements include those described in the "Risk Factors" section of the Company's most recently filed Annual Report on Form 10-K as well as in the Company's other filings with the Securities and Exchange Commission. Forward-looking statements are based on the Company's expectations and assumptions as of the date of this document. Except as required by law, the Company assumes no obligation to update forward-looking statements to reflect any change in expectations, even as new information becomes available.

#### Use of Non-GAAP Financial Information

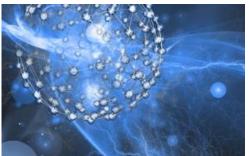
This document includes non-GAAP financial information including one or more of adjusted operating income (loss), adjusted operating margin, adjusted net income (loss), adjusted EBITDA, adjusted EBITDA margin, adjusted diluted earnings (loss) per share, foreign exchange adjusted revenue, and net debt. We believe that this non-GAAP financial information provides investors with an enhanced understanding of the underlying operations of the business. For the periods presented, these non-GAAP financial measures have excluded certain expenses and income resulting from items that we do not believe are representative of the underlying operations of the business. Items excluded include stock-based compensation, amortization of intangibles related to acquisitions, other operating expenses, loss on equity securities, income taxes and the tax impact of the reconciling items. Management believes that this non-GAAP financial information is important in comparing current results with prior period results and is useful to investors and financial analysts in assessing the Company's operating performance. Non-GAAP historical financial statement information included herein is accompanied by a reconciliation to the nearest corresponding GAAP measure which is included as exhibits below.

With respect to non-GAAP forward-looking measures, we provide an outlook for adjusted EBITDA margin. Many of the items that we exclude from this forward-looking measure calculation are less capable of being controlled or reliably predicted by management. These items could cause the forward-looking measures presented in our outlook statements to vary materially from our GAAP results.

The non-GAAP financial information provided in this presentation should be considered in addition to, not as a substitute for, the financial information provided and presented in accordance with GAAP and may be different than other companies' non-GAAP financial information.

# Trusted provider of advanced life science tools to the leading academic research institutions, contract research organizations, pharmaceutical and bio-tech companies







#### **CELLULAR & MOLECULAR**

Leading provider of technologies and tools necessary for research, discovery and creation of tomorrow's breakthrough drugs, vaccines and therapies

#### PRE-CLINICAL SYSTEMS

Market leading provider of the recognized gold standard for data acquisition, processing, and regulatory report generation for safety pharmacology and toxicology testing



#### **COMPANY PROFILE**

- NASDAQ: HBIO
- Global sales footprint, 3 core manufacturing facilities
- Approx. 390 employees, 33 PhD, 54 Masters, 77 Bachelors
- 2023 Revenues: \$112.3M
- FY'23 Adj. EBITDA: \$14.6M (13% of rev), up 34% vs PY\*
- 35%+ recurring revenues
- Headquarters: Greater Boston, MA

# BALANCED PORTFOLIO Biotech/ Pharma 17% 2023 REVENUE BY CUSTOMER TYPE Academic / Research 51% Revenues allocations are approximate

<sup>\*</sup> Non-GAAP measure; see reconciliation to GAAP financial measures in Appendix.



## **Harvard Bioscience Highlights**

Long standing relationships with blue-chip customers

Direct sales force complemented by distributors for global reach

Trusted reputation with limited competitors and high switching costs

Strong established brands

Disciplined capital allocation balancing growth and financial performance

Long term target: Double digit revenue growth, 60% gross margin, 20% EBITDA

Essential natural growth end markets

High touch sales approach with elite applications & data scientists

High barrier innovative technologies

Expand into high volume applications

Focus on commercial expansion of addressable markets

Targeted growth strategy

## DIVERSIFIED CUSTOMER / REVENUE MODEL

Systems & Software



Consumables

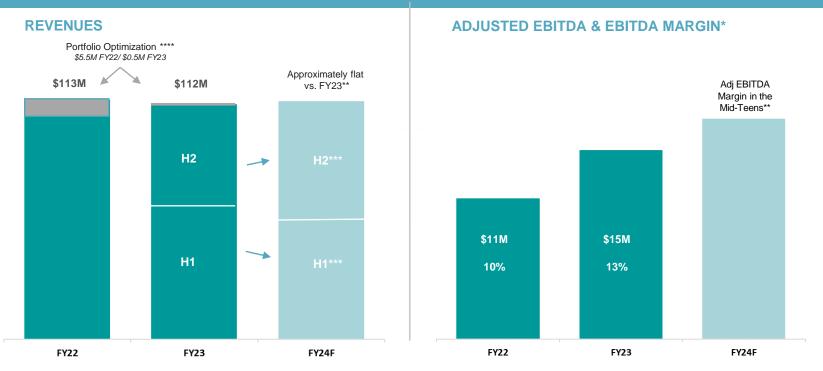


**Services** 



## **Sales and Earnings Trends**

Expect weakness in H1 2024 vs a strong 2023 comparison; H2 2024 growth vs both H1 2024 and H2 2023\*\*



<sup>\*</sup> Non-GAAP measure; see reconciliations to GAAP financial measures in Appendix.

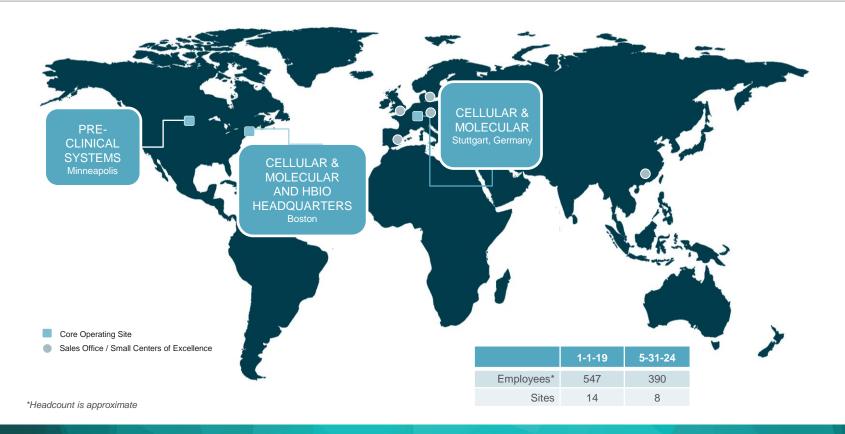
<sup>\*\* 2022</sup> Revenue includes \$5.5 million in sales of discontinued products; 2023 Revenue includes \$0.5 million in sales of discontinued products; net difference is \$5.0 million



<sup>\*\* 2024</sup> Guidance as discussed in Q1 earnings release on May 7, 2024. This presentation is not a reaffirmation of guidance.

<sup>\*\*\* 2024</sup> H1/H2 is approximate for illustrative purposes.

## **Today's Global Footprint**



# **Essential Technologies Serving Well-funded, High-growth Secular Markets with Demographic Tailwinds**

#### **DRIVERS**

Rising incidence of disease – cardiac, cancer, respiratory, diabetes, obesity, Alzheimer's, neurological, infectious



Increased demand for research tools, devices and systems that improve efficiency & productivity and enable therapeutics discovery and safety & regulatory through bio-production



- 1) https://www.researchandmarkets.com/reports/5553406/pharmaceuticals-global-market-report-2022-by
- https://www.acumenresearchandconsulting.com/biotechnology-market
- https://www.emergenresearch.com/request-sample/1221
- https://ncses.nsf.gov/pubs/nsf22323
- 5) https://www.grandviewresearch.com/industry-analysis/preclinical-cro-market \*Internal estimates calculated based on publicly-available data.



## **Blue Chip Customer Base**



#### **ACADEMIC** RESEARCH

- Scientific Research labs primarily government & grant funded
- Early discovery of new novel drugs and compounds for therapies and vaccines
- Advanced cellular testing & gene editing



#### CONTRACT RESEARCH **ORGANIZATIONS**

- Pre-clinical studies to determine safety and efficacy of new pharmaceuticals
- Pharmaceutical companies are outsourcing significant pre-clinical activities to CROs



#### BIOTECH, **PHARMACEUTICAL**

- Perform early discovery and then transition from discovery through preclinical regulatory and on to production
- Leverage discoveries from academics & bio-techs
- Bridge to bio-production





HARVARD



UNIVERSITY OF CAMBRIDGE















Reduce test cycle-time, increase volume and

study types, drives CROs revenue growth





REGENERON

abbyje















Reduce development cycle time means more compounds drives BioPharma revenue growth



Breakthrough technologies and applications, increase innovative publications

Subset of blue-chip recurring customers



## **Extend Technology Leadership in Academic Research & Discovery**



Adapt Technologies to High Volume Applications in Biopharma and CRO's



## **New Product Introductions: Focused on Commercialization**

Base business targets above-market growth, drive high growth opportunities in bio-production and cellular organoid applications

#### STRENGTHEN THE BASE





**PRECLINICAL** 

Extend leadership in telemetry with the introduction of SoHo™ Shared Housing telemetry family of implants

- Introduced latest Ponemah<sup>™</sup> software integrating VivaMARS<sup>™</sup> high-capacity behavioral testing system with our industry leading GLP data management and reporting system
- VivaMARS<sup>™</sup> expands our addressable market into neuro pharmacology applications
- Extend leading position in cellular/molecular/inhalationrespiration technologies
- Expand field service offerings

~85% of FY23 Rev

## EXPAND TO BIO-PRODUCTION



CM

- Adapted our well known BTX electroporation family to cGMP bioproduction applications
- Released our GLP/cGMP compliant Amino Acid Analyzer for Biopharma bioproduction, adapted from our leading AAA clinical analyzer

~10% of FY23 Rev

#### **INNOVATE CELLULAR**

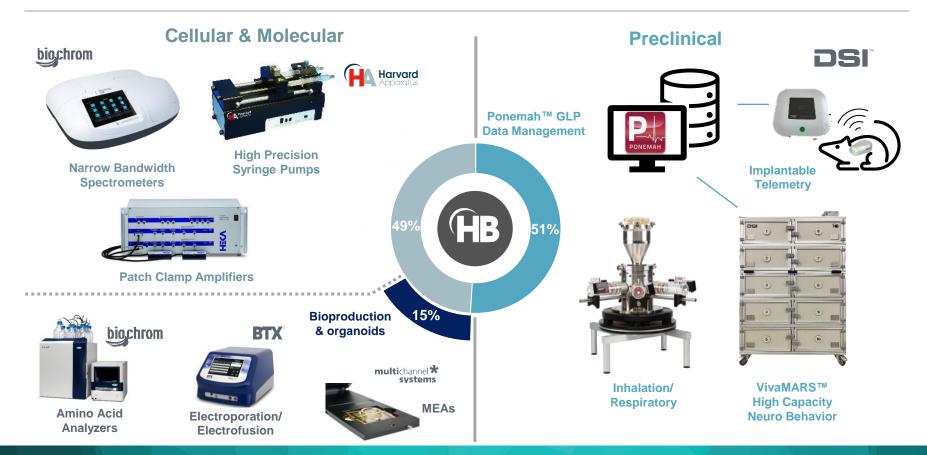


CMT-ORGANOIDS

- Launched the Mesh MEA<sup>™</sup> Organoid Platform at SfN
- Showcased Mesh MEA™ at Society for Toxicology
- Initial applications in research and biopharma discovery for neuro, exploring in-vitro safety applications

~5% of FY23 Rev

## Maintain Industry Leadership, Expand Bioproduction & Innovate in Organoids



## Expand to Bio-Production: BTX Electroporation as a Bridge to Bio-Production

#### HBIO IS A PIONEER IN ELECTROPORATION AND ELECTROFUSION DRIVING NOVEL DISCOVERIES IN DRUG CREATION



## **Bio-Production Applications and Configuration**

- Used for today's most challenging cell modifications, CAR T-Cell transfection, monoclonal antibodies, Cell and Gene Therapy (CGT), CRISPR
- Ideal for bioproduction when Biotech or Pharma customers utilize our system to create the original compound
- Low barrier transition to production, faster time to market and reduced cost



### Amino Acid Analyzer (AAA)

- High precision amino acids/protein analysis
- For biologic therapies that rely on precise amino acid content
- Enables on site bioproduction testing of buffers and solutions to improve production cycle time

## Innovate: Mesh MEA™ Organoid Platform, Built on our Leading MEA Technology

#### MOVING TO HUMAN & PATIENT DERIVED LONG-LIFE ORGANOIDS FOR EARLY IN VITRO TESTING

Today's Drug Testing



Immortalized Cells



Large Population Small Animal Models



Small Animal Model Safety



Large Animal Non-Human Primate

Potential Future Path



Immortalized Cells



In-Vitro Ephys w/ Human Organoids



Small Animal Model Safety



Large Animal Non-Human Primate







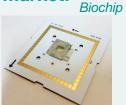


2D/3D Organ on chip











- Enabling longitudinal organoid studies
- Neuro and cardiac applications
- Reduce test cycle time, increase yield













## **Investment Thesis: Deliver Strong, Profitable, Long-Term Growth**

NEW PRODUCT INTRODUCTIONS FOCUSED ON TOP-LINE GROWTH & RECURRING REVENUES

LARGE, LOYAL CUSTOMER BASE IN DRUG RESEARCH & DISCOVERY, SAFETY & REGULATORY, AND BIO-PRODUCTION MARKETS

FOCUSED ON LONG TERM DOUBLE DIGIT TOPLINE GROWTH, 60% GROSS MARGIN & 20%+ ADJUSTED EBITDA MARGIN



## **Appendix**



## Reconciliation of GAAP to Non-GAAP Financial Measures

#### (in thousands)

	<b>-</b>			
	Year Ended 31-Dec-22		Year Ended 31-Dec-23	
GAAP net loss	\$	(9,516)	\$	(3,415)
Stock-based compensation		4,411		5,000
Acquired asset amortization and impairment		6,236		5,561
Settlement, restructuring, & other		5,603		253
Unrealized loss on equity securities		-		632
Income taxes		(1,689)		(1,604)
Adjusted net income		5,045		6,427
Depreciation		1,338		1,440
Interest and other expense, net		2,426		4,221
Adjusted income taxes (1)		2,026		2,463
Adjusted EBITDA	\$	10,835	\$	14,551
Revenues	\$	113,335	\$	112,250
Adjusted EBITDA margin (2)		10%		13%



<sup>(1)</sup> Adjusted income taxes includes the tax effect of adjusting for the reconciling items using the tax rates in the jurisdictions in which the reconciling items arise.

<sup>(2)</sup> Adjusted EBITDA margin % is calculated as Adjusted EBITDA / Revenue.