

Unlocking the Power of the Proteome to Revolutionize Biomedicine

JULY 28, 2026

Safe Harbor

This presentation and the accompanying oral presentation contain forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, including, among others, statements regarding the size and growth of the protein analysis market; Nautilus Biotechnology's anticipated total addressable market; the performance, value and enabling nature of Nautilus Biotechnology's proteomics and proteoform analysis technology platform; statements regarding Nautilus Biotechnology's future development milestones and timing; statements regarding the timing of early access or commercial availability of Nautilus' Biotechnology's products or services, statements regarding market demand or interest in Nautilus Biotechnology's proteome or proteoform analysis platform, statements regarding the timing and nature of Nautilus Biotechnology's potential engagements with partners in proteome and/or proteoform analysis; Nautilus Biotechnology's business and operational strategy; Nautilus future financial performance and results of operations; Nautilus potential future operating expenses and cash runway; Nautilus Biotechnology's prospective products; Nautilus Biotechnology's business development plans and opportunities; Nautilus Biotechnology's anticipated customer mix and collaborations plans; and objectives of management for future operations are forward looking statements.

Forward-looking statements are neither historical facts nor assurances of future performance. Instead, they are based on our current expectations and projections about future events and financial trends that we believe may affect our financial condition, results of operations, business strategy, and financial needs. All statements other than statements of historical facts contained in this presentation, including, without limitation, statements regarding our future performance and our market opportunity, could be deemed forward-looking statements.

The words “may,” “will,” “expect,” “anticipate,” “aim,” “estimate,” “intend,” “plan,” “believe,” “is/are likely to,” “potential,” “continue” and other similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words.

Forward-looking statements are subject to numerous risks and uncertainties that could cause actual results to differ materially from currently anticipated results, including but not limited to risks relating to the development and commercialization of our Nautilus platform; macroeconomic conditions; regional conflicts; Nautilus Biotechnology's dependence on certain sole and single source suppliers; competition; market acceptance of Nautilus Biotechnology's current and potential products;

Nautilus Biotechnology's ability to manage the growth and complexity of its organization; Nautilus Biotechnology's ability to maintain, protect and enhance its intellectual property; and Nautilus Biotechnology's ability to continue to stay in compliance with its material contractual obligations, applicable laws and regulations.

Information on these and additional risks and uncertainties and other information affecting Nautilus Biotechnology's business and operating results is contained in Nautilus Biotechnology's Annual Report for the year ending December 31, 2025, filed February 26, 2026, and in its other filings with the Securities and Exchange Commission. These forward-looking statements speak only as of the date hereof.

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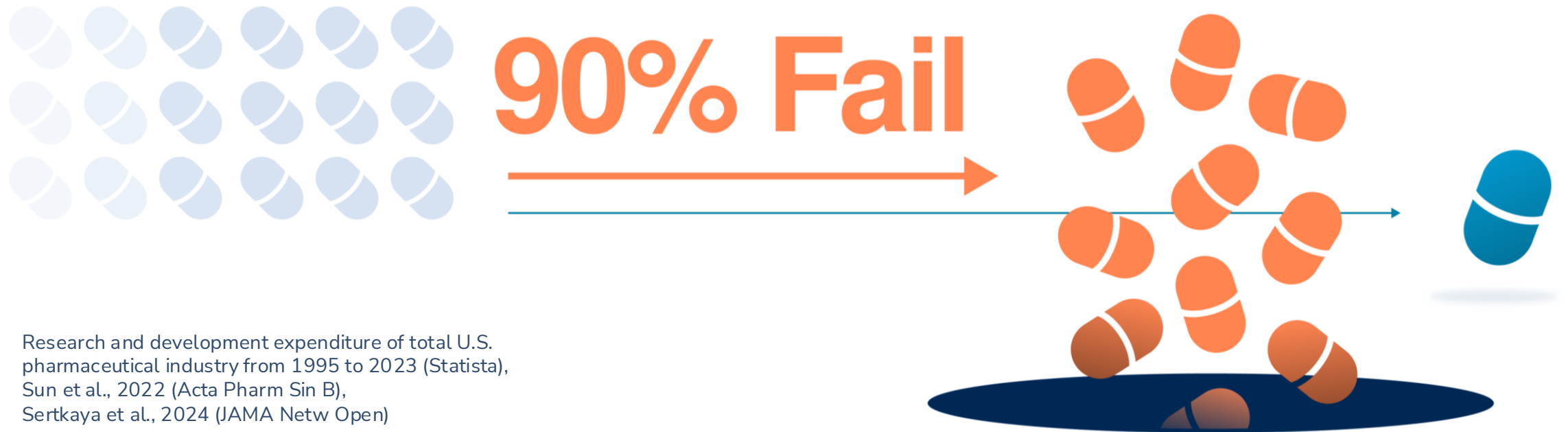
While Nautilus Biotechnology believes its internal research is reliable, such research has not been verified by any independent source. Nautilus Biotechnology's estimates are derived from publicly available information, management's knowledge of the Nautilus Biotechnology's industry and management's assumptions based on such information and knowledge, which they believe to be reasonable. This data involves a number of assumptions and limitations which are necessarily subject to a high degree of uncertainty and risk due to a variety of factors.

Drug Development Efforts are Massively Inefficient

95% of drugs target proteins

Limited understanding of proteins

Recycling same targets, mechanisms, and failures



Research and development expenditure of total U.S. pharmaceutical industry from 1995 to 2023 (Statista), Sun et al., 2022 (Acta Pharm Sin B), Sertkaya et al., 2024 (JAMA Netw Open)

Alzheimer's Disease

>7M

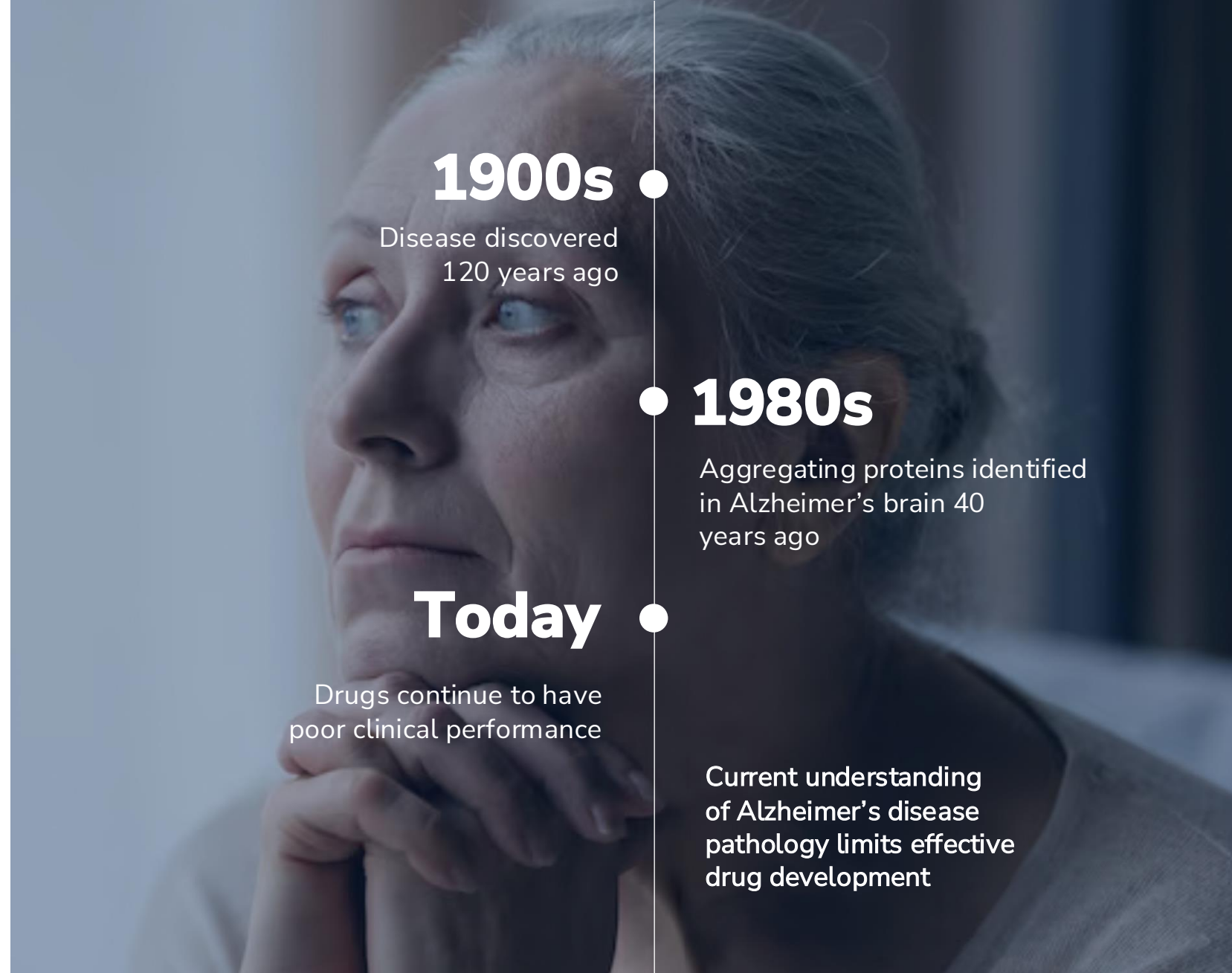
Americans living with Alzheimer's today

\$1.6T

Estimated economic impact by 2050

**No treatments
stop decline**

Aaranda et al., 2021 (J Am Geriatr Soc), Cummings et al., 2021 (Alzheimers Dement), Alzheimer's Disease Facts and Figures, 2025 (Alzheimer's Association)



1900s

Disease discovered
120 years ago

1980s

Aggregating proteins identified
in Alzheimer's brain 40
years ago

Today

Drugs continue to have
poor clinical performance

Current understanding
of Alzheimer's disease
pathology limits effective
drug development

Proteins are the Key Driver of Biology

Cancer



\$8.0 B

Alzheimer's and related dementias



\$3.9 B

Cardiovascular disease



\$2.8 B

Autoimmune disease



\$1.0 B

Lack of tools for studying proteins stifles progress

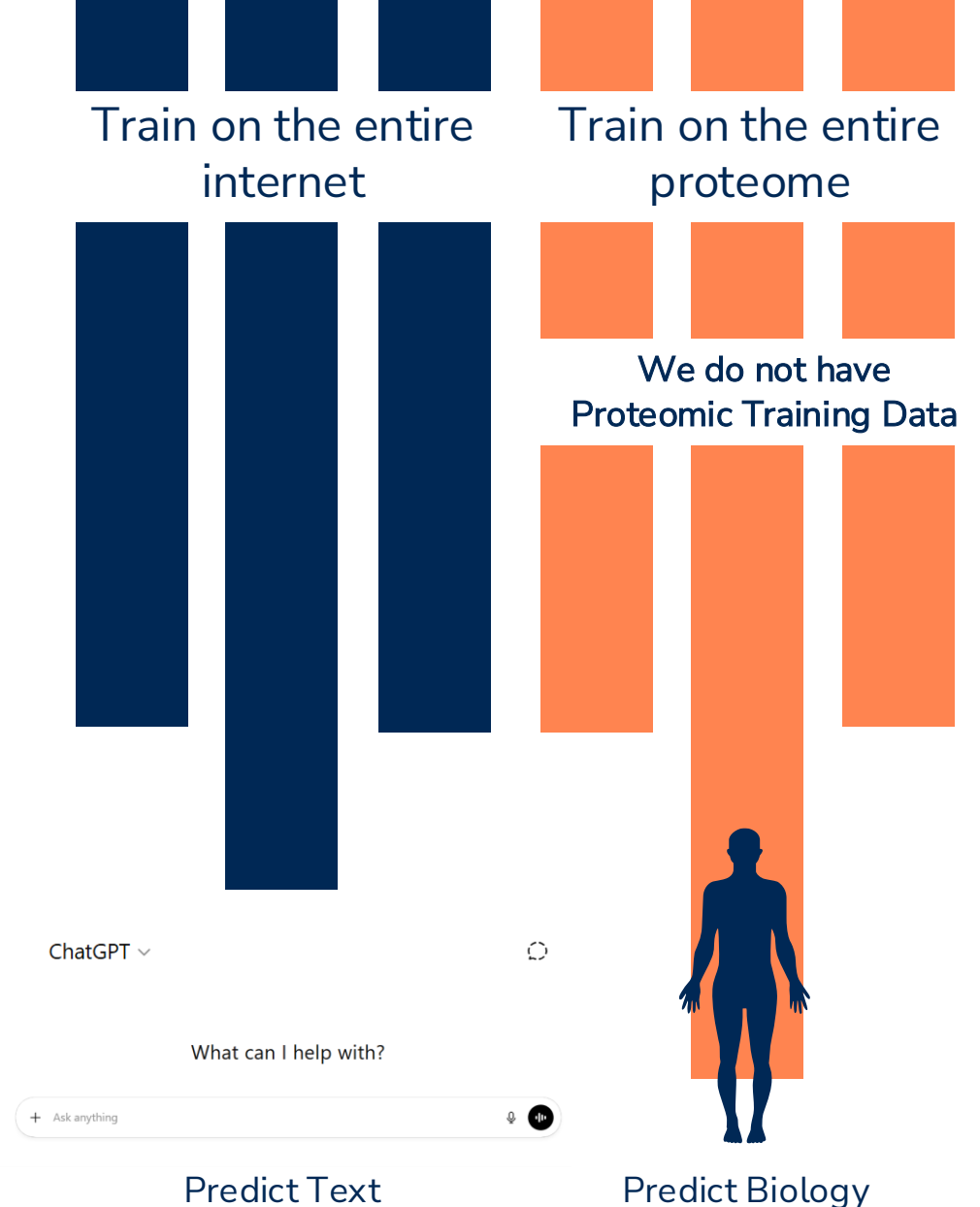
Billions of NIH research dollars go to protein-focused disease areas

Funding for Various Research, Condition, and Disease Categories, 2025 (NIH)

Artificial intelligence (AI)–enabled biological tools are likely to continue to require data-driven AI methods that learn patterns from large biological datasets, because the underlying rules of the types of biology being discussed in this report are generally unknown.

The Age of AI in the Life Sciences: Benefits and Biosecurity Considerations, 2025 (National Academies of Sciences, Engineering, and Medicine)

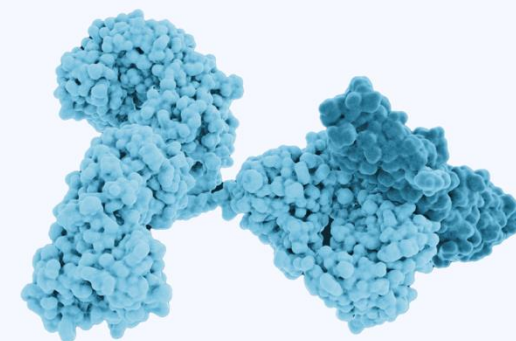
AI Cannot Solve Problems Without Large-scale, High-quality Data



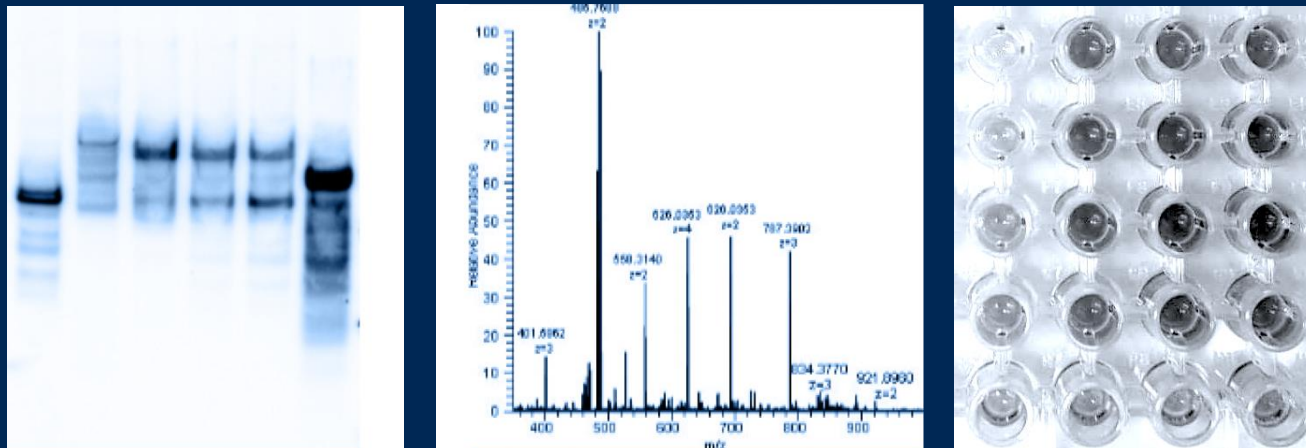
Highly Complex and Challenging Proteome Landscape

Researchers need to

- **Deeply explore individual proteins, variants, and alterations associated with biological function**
Example: Discover neurodegeneration-specific protein variants
- **Confidently quantify and compare proteins across diverse samples**
Example: Find proteins up or down regulated in cancer
- **Quantify both large and small changes across the proteome**
Example: Identify precise biomarkers of cardiovascular disease



Current Technologies are Fundamentally Flawed

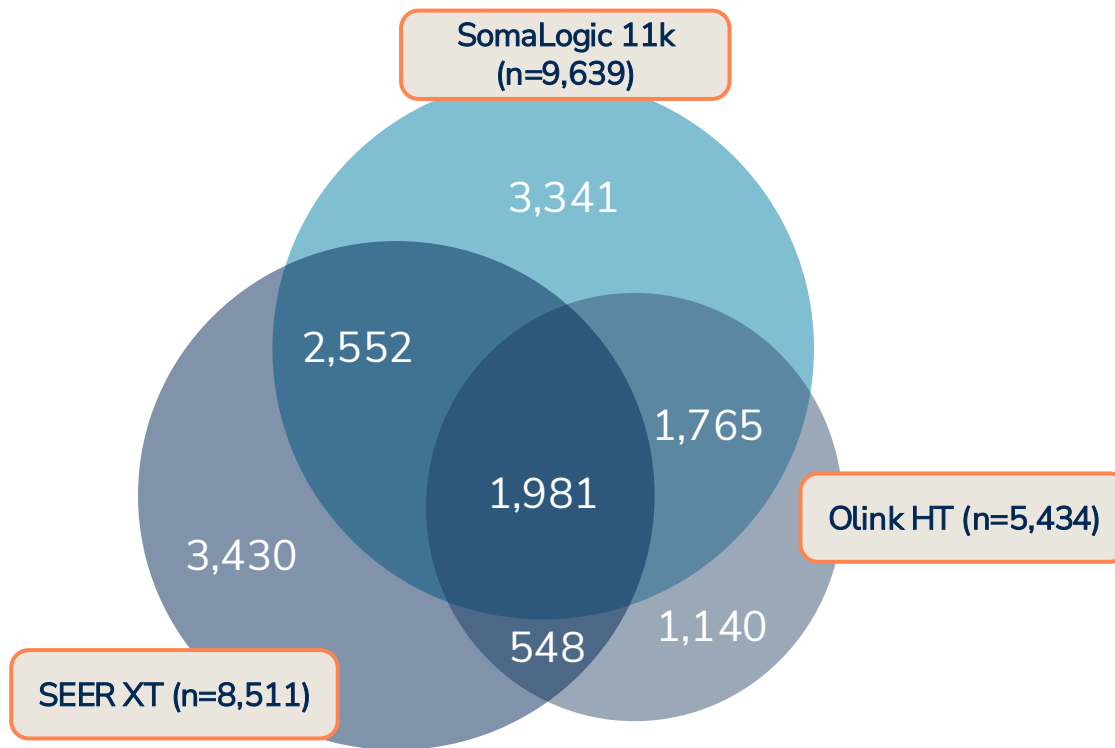


Existing methods cannot measure protein-level differences that drive biology

- Incomplete coverage and measurement
- Biased detection
- Limited scale and hard to use
- Fuzzy, imprecise measurements
- Confusing outputs

Current Technologies Provide Low-quality Data, that Doesn't Provide Functional Insight

2025 UK Biobank data discordance



Pietzner et al., 2025 (medRxiv)

Poor quality

- Highly variable data hides small but important changes in abundance indecipherable from noise

Low data agreement

- Likely different proteoforms measured by different technologies
- <10% proteome coverage overlap

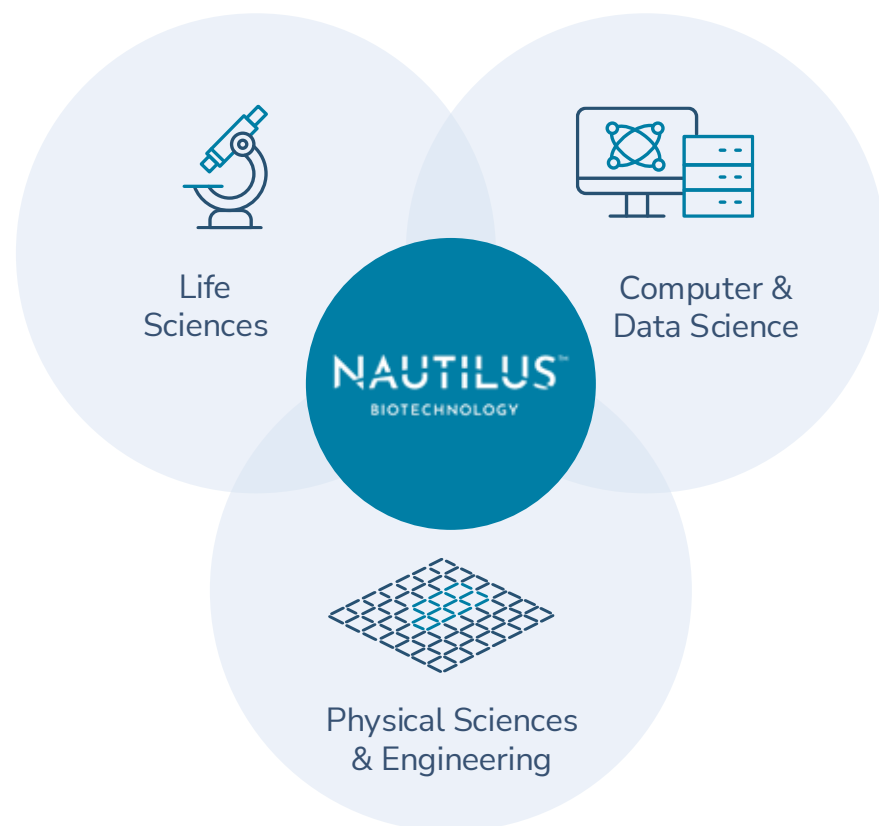
Unclear insights

- Unspecified measurements of disparate proteoforms by different technologies likely reflect different biology

Incomplete coverage

- Affinity tools limited to blood samples
- <50% proteome coverage by any platform

Nautilus' Revolutionary Innovation was Not Possible Until Now



Required counter-intuitive science and the maturation of key disciplines

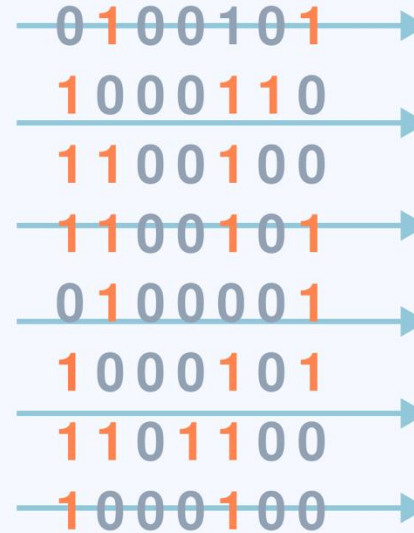
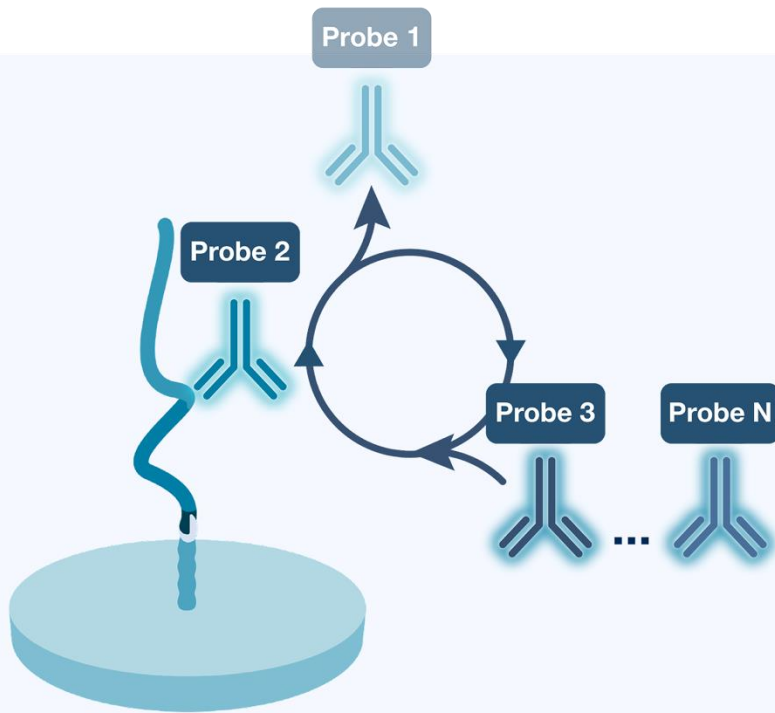
Nautilus has innovated strengths and leveraged these strengths across key disciplines to achieve something truly revolutionary

Founders' diverse yet complementary experiences enable them to address a challenges that others could not

Pursuing deep, hard science with an entrepreneurial mindset

Iterative Mapping is Transformative

- Multiple interrogations of intact, single protein molecules reveal many diverse features
- Billions of single molecules analyzed simultaneously at massive scale
- Precise measurements output simple protein counts



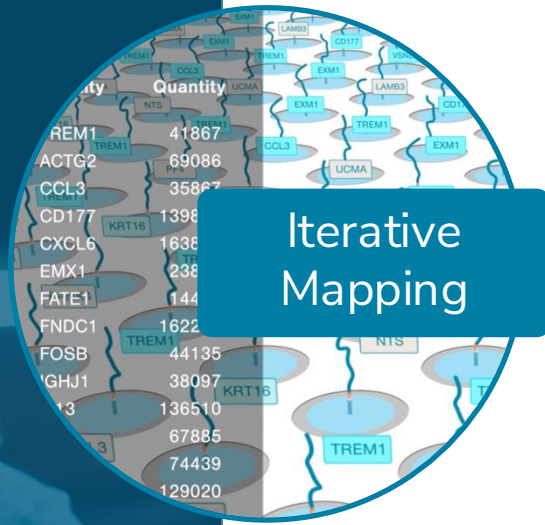
Proteoform abundance

Tau 0N4R pS396	580
Tau 0N4R pS396, pT181	160
Tau 0N3R pS396	1.6x10 ⁶
...	

Protein abundance

EGFR	44534
TP53	71753
cMET	38534
PTEN	142559
BRAF	166559
...	

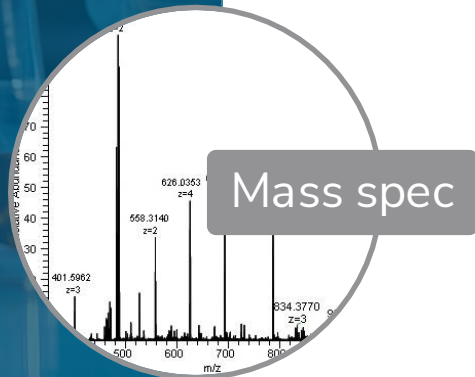
Iterative Mapping is a new category of proteomics



Direct analysis and single-molecule quantification of intact protein molecules accelerates functional insights.



Estimation of targeted protein abundance based on the identification of their parts. Extensive follow-up required.

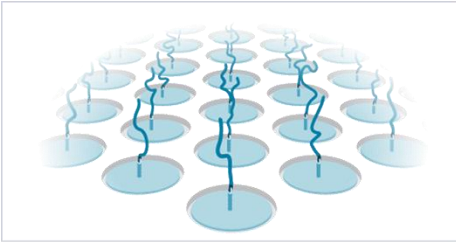


Estimation of the proteins present based on identification of broken parts. Extensive follow-up required.

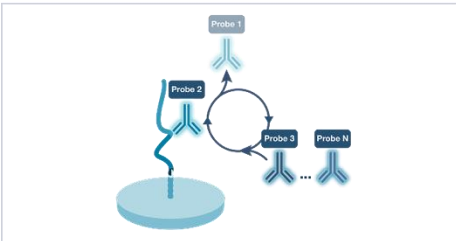


We've Built a Whole New Way to do Proteomics Over the Last Decade

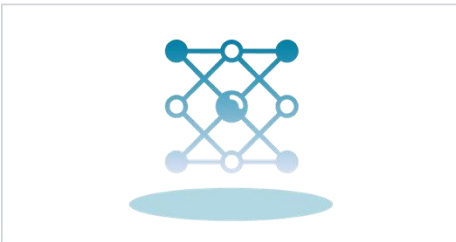
Highly differentiated IP



Nanofabricated protein arrays capable of capturing billions of individually distinguishable proteins



Novel **multi-affinity probes** that detect fundamental features determining protein identity



A **ML-powered algorithm** that distills complex probe binding data into simple protein counts

Simple, robust, AI-ready data

Proteoform abundance

Tau 0N4R pS396	580
Tau 0N4R pS396, pT181	160
Tau 0N3R pS396	1.6x10 ⁶
...	

Protein abundance

EGFR	44534
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BRAF	166559
...	

Core Performance Requirements Intended to Support Breadth, Depth, and Reproducibility in Proteomics



High sensitivity

Comprehensive proteomics requires direct detection of low-abundance molecules. The Voyager™ Platform is designed for single-molecule measurement.



Scalability across dynamic range

The Voyager Platform is designed to scale to the analysis of many samples while quantifying proteins over a wide range of abundances.



Reproducibility and robustness

The Voyager Platform's standardized workflows and single-molecule counts are designed to provide the reproducibility needed for data integration, longitudinal studies, and the analysis of large cohorts.



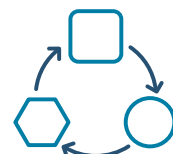
Throughput

The Voyager Platform is designed to analyze tens of thousands of samples within actionable timeframes.



Usability

Broad adoption requires usability across labs and experience levels. The Voyager Platform is designed for ease-of-use through an integrated workflow, hands-off fluidics, and clear, interpretable data.



Adaptability

The Voyager Platform is designed to support multiple run configurations and assay formats to address diverse research needs.

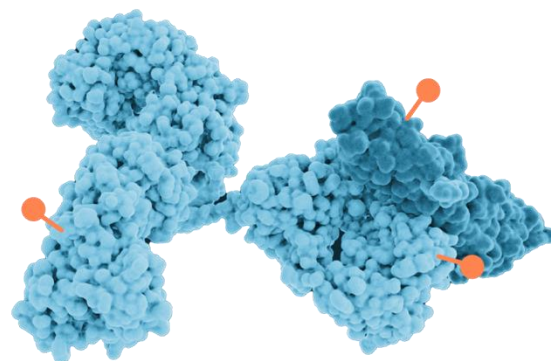
Key Applications of Iterative Mapping

...To date it has been nearly impossible to characterize the proteoform repertoire of any protein, let alone the proteoform repertoire of a given cell or cell type. And I think those are the kinds of approaches that are coming to bear from groups like Nautilus.

- Don Kirkpatrick, SVP Xaira Therapeutics

Targeted proteoform analysis

See molecular differences in protein variants



Broadscale proteomics

See changes to full protein networks



Use cases



- Identify disease pathways
- Drug target discovery
- Biomarker discovery
- Toxicology
- Mechanism of action
- Basic biology

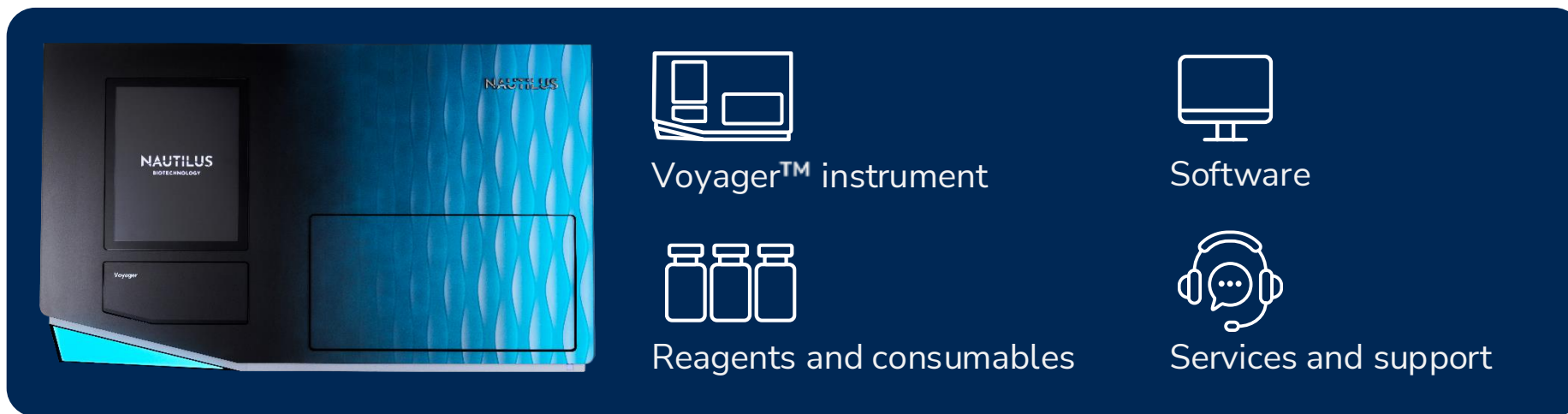
Nautilus Voyager™ Platform

Enabling Iterative Mapping Applications

Applications



Platform



Method



*Planned expansion

What biology underlies Alzheimer's disease risk?

The Nautilus Voyager™ Platform provides answers where others do not.

APOE Variants

APOE2

Decreased
Alzheimer's risk

APOE3

Standard
Alzheimer's risk

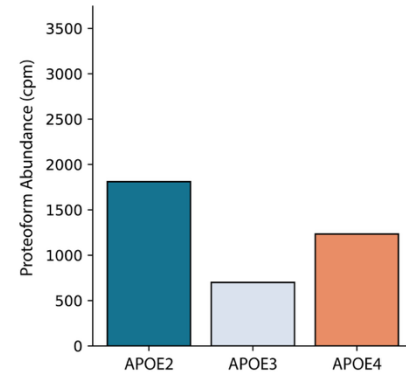
APOE4

Increased
Alzheimer's risk

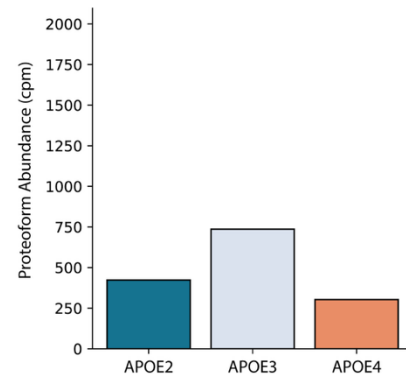
Work done in collaboration with the Schilling and Elerby Labs at the Buck Institute for Research on Aging

Unique Voyager Platform Data

N-0N-pS214-3R-pS396-C



N-0N-pT205-pT231-3R-pS396-C



Unique benefits

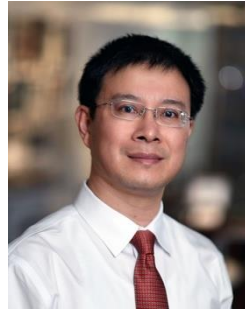
Novel biology

Clear differences between variants that are not visible on other platforms

Industry-leading reproducibility

Single-molecule data that researchers can trust (<5.5% median CV)

Early Customers Engagements



Bing Zhang, Ph.D.

Professor, Baylor College of Medicine

EAP project details

Applying Iterative Mapping to develop new methods to accurately quantify protein isoforms in cancer.



Allen Institute

Multiple researchers

Collaboration details

Investigating the connection between the tau protein and neurodegenerative conditions such as Alzheimer's disease.

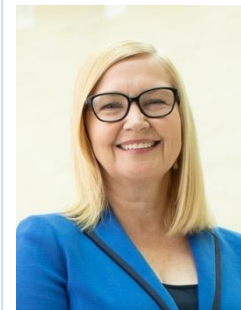


Taylor Bertucci, Ph.D.

Principal Investigator, Neural Stem Cell Institute

Collaboration details

Applying the Tau Proteoforms Assay to investigate the roles of tau proteoforms in tauopathy disease models.



Lisa Ellerby, Ph.D.

Professor, Buck Institute for Research on Aging

Collaboration details

Investigating tau proteoforms and Alzheimer's disease risk conferred by genomic variants. Alpha platform on-site.



Birgit Schilling, Ph.D.

Professor, Buck Institute for Research on Aging

Development collaboration details

Developing the Tau Proteoforms Assay to accept new sample types and expand its impact. Alpha platform on-site.



Hilal Lashuel, Ph.D.

Michael J. Fox Foundation and Weill Cornell Medicine - Qatar

Development collaboration details

Developing targeted proteoform assays for the Parkinson's disease-associated alpha synuclein protein.

Growing proteoform opportunity

Neuroscience proteoforms

- Tau as high impact initial use case
- Alpha synuclein in collaboration with MJFF
- Large market opportunity



Oncology proteoforms

- AKT1, p53, EGFR have massive impact
- p53 alone is mutated in 50% of cancers
- Prevalence of tissue and sample types creates large near-term opportunity



Future targets

- Growing opportunity as value is understood



Cardiology,
Immunology,
& more

Cross-functional Team Driven to Deliver on the Promise of Proteomics



Sujal Patel

Co-Founder & CEO

Founder & CEO,
Isilon Systems

Data science expert who
successfully guided Isilon
acquisition by EMC for
\$2.6B



Parag Mallick, PhD

**Co-Founder &
Chief Scientist**

Stanford Professor

Proteomics expert with
research focused on
translating systems bio
discoveries into precision
diagnostics



Anna Mowry

CFO

Head of Finance and
Sales Operations at Isilon

Cross-disciplinary
background in
biochemistry, finance,
operations, and sales



Gwen Weld

Chief People Officer

VP of Global People and
Infrastructure at Isilon
Systems

More than 25 years of
senior leadership in human
resources, organizational
culture, and business
strategy



Subra Sankar, PhD

**SVP Product
Development**

Led instrument and
Consumable Development
at Illumina,

SVP Product Development
at GenapSys

Seasoned product and
engineering expert

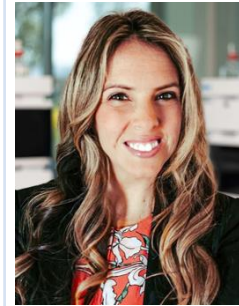


Matt Murphy, Esq

General Counsel

General Counsel at Pacific
Biosciences and 10x
Genomics

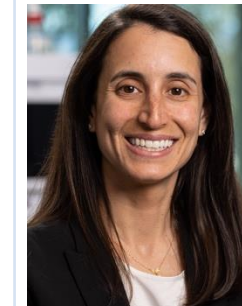
Spent over a quarter
century advising
companies on the cutting
edge of life sciences
technologies



Amber Faust

VP, Global Sales

Veteran life sciences sales
leader with nearly 20 years
of experience advancing
proteomics technologies
across pharma, biotech,
academic, clinical, and
government sectors while at
Olink Proteomics, SomaLogic,
and Waters Corporation



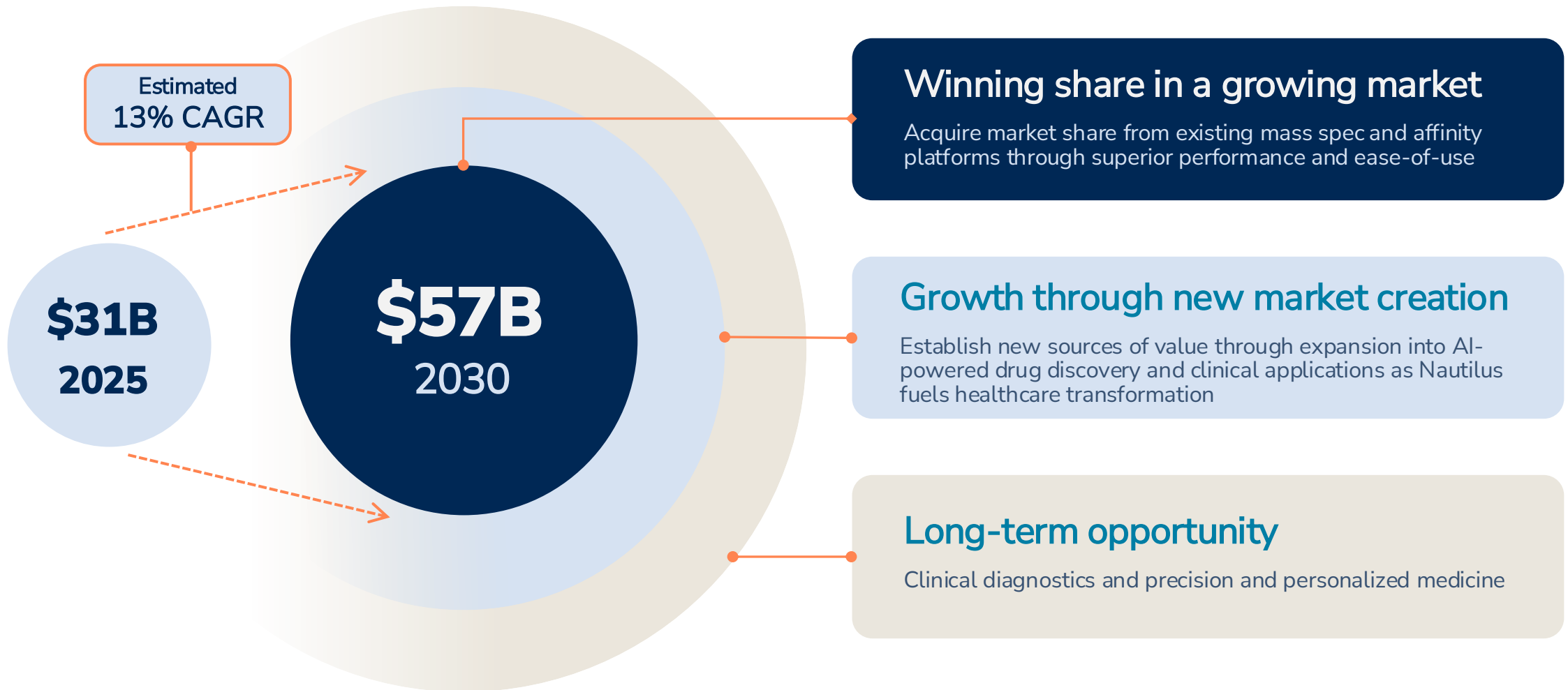
Jame Rose Kuhar, PhD

VP, Marketing

Over a decade of
experience driving
platform strategy and
commercialization
including product
management roles at
NanoString Technologies
focused on spatial biology
and multiomic platforms

All team members carefully selected for world-class, cross functional experience across
bioinformatics, biochemistry, nanofabrication, machine learning, and more

Large Market Opportunity Ready for Disruption



Data from Proteomics Technologies and Global Markets, 2025 (BCC Research). Image generated at Nautilus.

Go-to-Market Plan

In Development Early Access General Availability

Commercial Launch

Commercial Ship

H2 2026

H1 2027

H2 2027

GTM Activities

Early Access

Early Access Service lab,
external beta placements

Commercial Stage

Service lab, instrument, reagent kits,
software, & services sales

Portfolio
Expansion

Nautilus Voyager™ Platform

Tau Proteoform

AKT1 Proteoform

2nd Oncology Proteoform

3rd Oncology Proteoform

~5th-11th Proteoform

~12th-20th Proteoform

Expanded Proteoform Assay capabilities: Lower sample input, sample type expansion, proteoform depth expansion

Broadscale

Target
Customers


Academic and pharma
customers ready to pioneer
our breakthrough technology


Academic and pharma
customers looking beyond current
technologies to unlock proteomics
promise

Financial Overview

Q2 2026

Cash balance

\$129M

(Cash, cash equivalents, and investments)

Cash burn

\$14M

Cash runway

**Into
Q1-2028**

Headcount

127 (-1% YoY)

Operating expense

\$16M (-7% YoY)

Commercial Launch in Reach Fueled by a Decade of Relentless Progress



- Disruptive science
- High profit potential
- World-class team
- Shareholder alignment
- Catalysts represent value-creation opportunities



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