



Investor Presentation

September 2024

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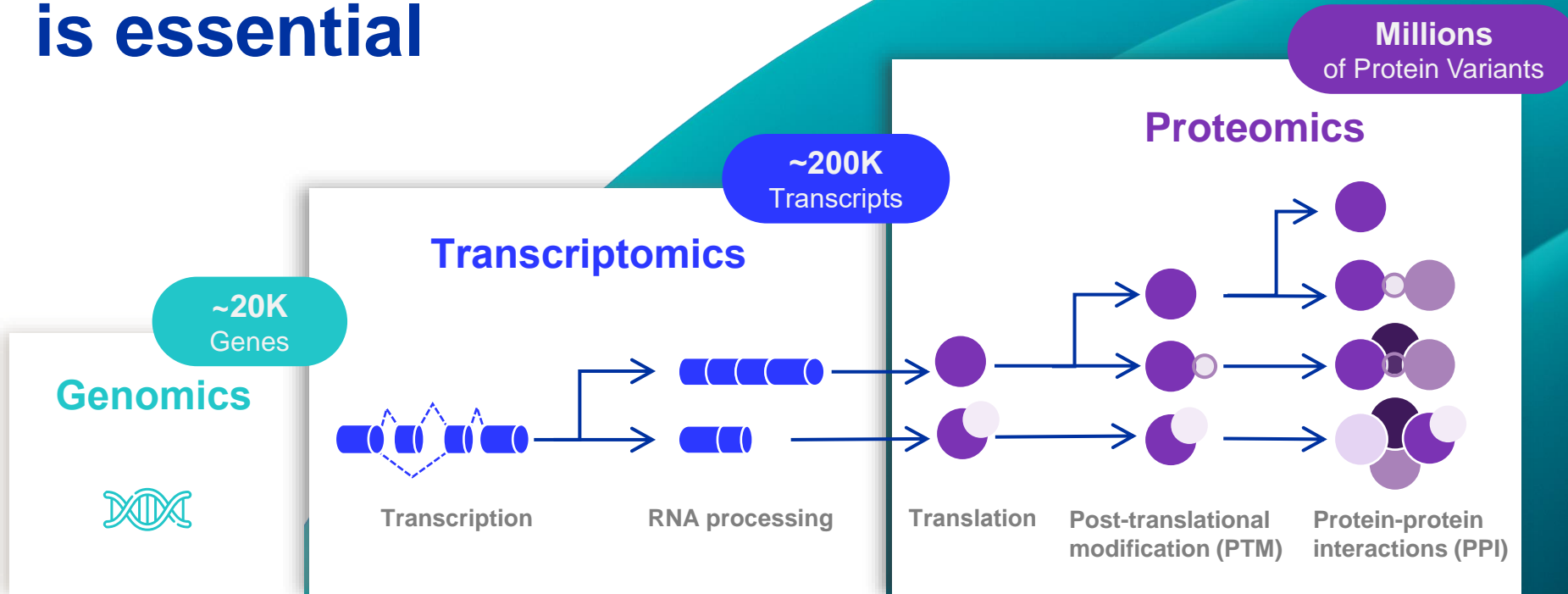


We imagine and
pioneer new ways to

decode the biology of the proteome

to improve human health

Full characterization of the proteome is essential



Static

Dynamic

>1.3 B genetic variants
<0.2% characterized

Modest correlation of mRNA to proteins
Distinct expression patterns in different cells

Protein variants can have distinct function
Population proteomics will annotate genome variants

Source: Isabell Bludau et al. Proteomic and interactomic insights into the molecular basis of cell functional diversity. Nature Reviews Molecular Cell Biology (2020).

Phenotype

Cell

Volume 164, Issue 4, 11 February 2016, Pages 805-817



Resource

Widespread Expansion of Protein Interaction Capabilities by Alternative Splicing

Xinping Yang^{1,2,3,4,17}, Jasmin Coulombe-Huntington^{5,17,18}, Shuli Kang^{6,17,19}, Gloria M. Sheynkman^{1,2,3,17}, Tong Hae^{1,2,3,17}, Aaron Richardson^{1,2,3}, Song Sun^{7,8,9,10}, Fan Yang^{7,8,9}, Yun A. Shen^{1,2,3}, Ryan R. Murray^{2,3,21}, Martin Sussknecht^{1,2,3}, Richard E. Steen^{1,2,3,22}, Michael Dasso^{1,2,3,23}, Andrew Grotzinger^{1,2,3,24}

Science Translational Medicine

HOME > SCIENCE TRANSLATIONAL MEDICINE > VOL. 13, NO. 605 > TGFβ2 AND TGFβ3 ISOFORMS DRIVE FIBROTIC DISEASE PATHOGENESIS

RESEARCH ARTICLE | FIBROSIS

TGFβ2 and TGFβ3 isoforms drive fibrotic disease pathogenesis

TIANHE SUN¹, ZHENYU HUANG², WELCHING LIANG³, JIANPING YIN^{1,2,3} AND JOSEPH R. ARRON¹ +30 authors Authors Info & Affiliations

SCIENCE TRANSLATIONAL MEDICINE • 3 Aug 2021 • Vol 13, Issue 605 • DOI: 10.1126/scitranslmed.aba0407

nature

Article | Published: 04 November 2020

Combinatorial expression of GPCR isoforms affects signalling and drug responses

Maria Marti-Solano¹, Stephanie E. Crilly², Duccio Malinverni³, Christian Munk⁴, Matthew Harris⁵, Abigail Pearce⁶, Tezz Quon⁷, Amanda E. Mackenzie⁸, Xusheng Wang⁹, Junmin Peng¹⁰, Andrew B. Tobin¹¹, Graham Ladds¹², Graeme Milligan¹³, David E. Gloriam¹⁴, Manojkumar A. Puthenveedu¹⁵ & M. Madan Babu¹⁶

Science Signaling

Opposing roles of RUBCN isoforms in autophagy and memory B cell generation

CHAO-YUAN TSHI¹, SHUNJI SAKAKIBARA², YUJI KAWA³, HIROKO OMORI^{1,2} AND HITOSHI KUNITANI¹ +7 authors Authors Info & Affiliations

SCIENCE SIGNALING • 19 Sep 2023 • Vol 16, Issue 803 • DOI: 10.1126/scisignal.adc3592

Changing the trajectory of deep unbiased proteomics

Deep Unbiased
Study Size
(# samples)

10s of 1000s

1000

2001

HUPO founded
HPPP launched

1999

1st PubMed mention
of Human Proteome Project

2017

Seer founded

2015

Deepest study
(16 samples; 5,300
proteins)

2020

Seer study of 141 samples; 2,500 proteins
First Proteograph™ shipped to customer

2022

Multiple studies of >1,000 samples completed
Deepest customer study >6,000 proteins

2023

PrognomiQ begins 15,000 sample study
Customers studies at scale with >8,000 proteins

2024

Differentiated biological insights of unbiased
proteomics for early cancer detection



**OPENING UP A NEW
GATEWAY TO THE PROTEOME**

Seer is positioned to lead the proteomics revolution

Deep, unbiased, high- throughput

Able to analyze 10,000+
samples per year

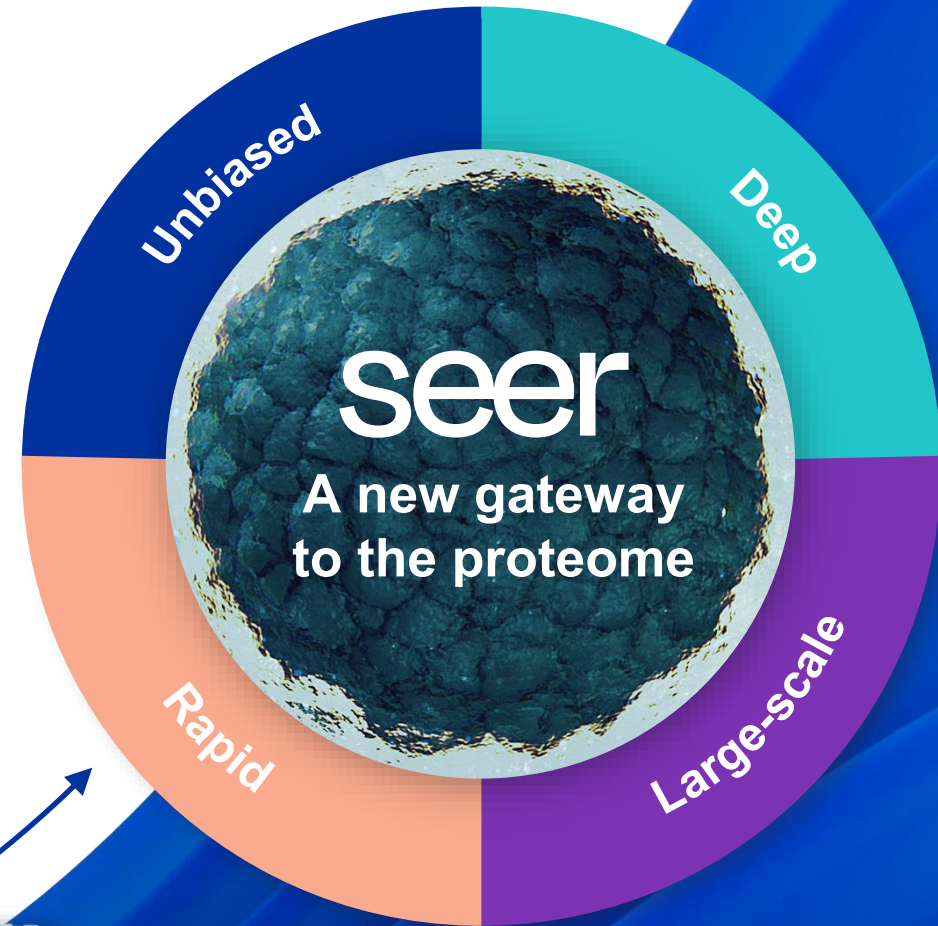
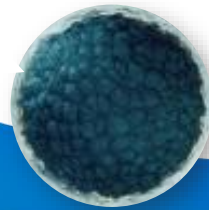


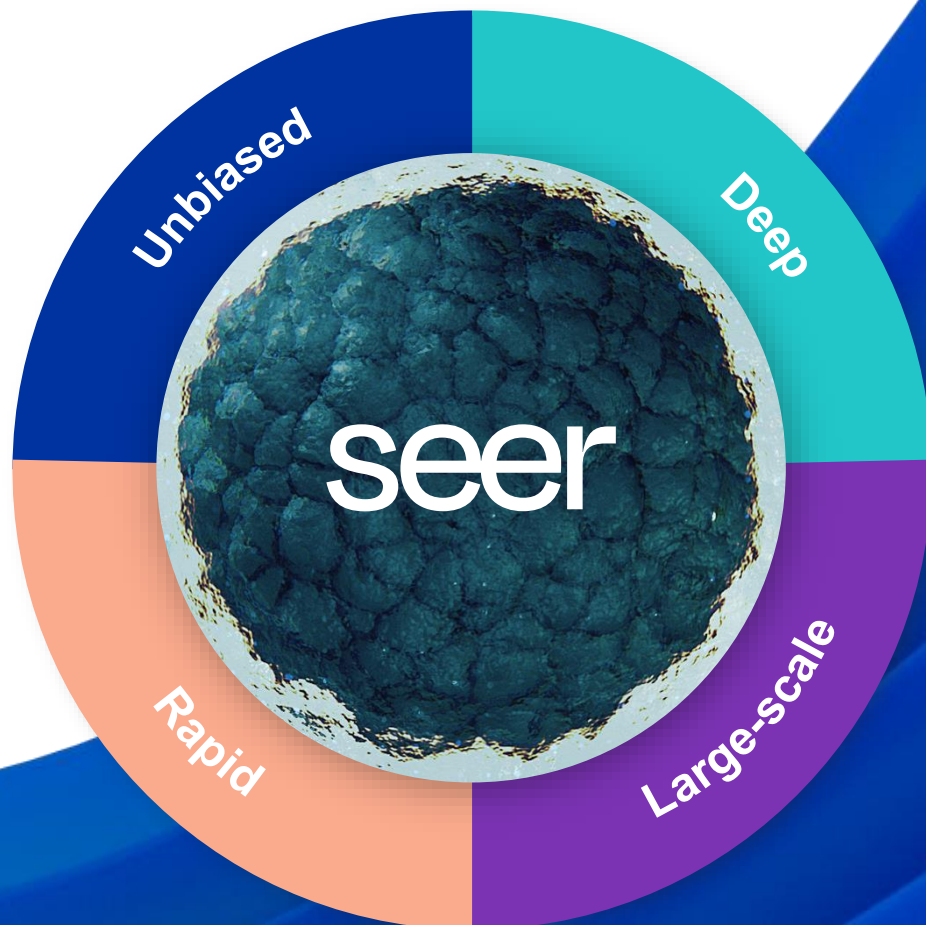
Seer enables unbiased, deep and rapid proteomic analysis at scale

Taking advantage of the way proteins interact



Lab on a
nanoparticle



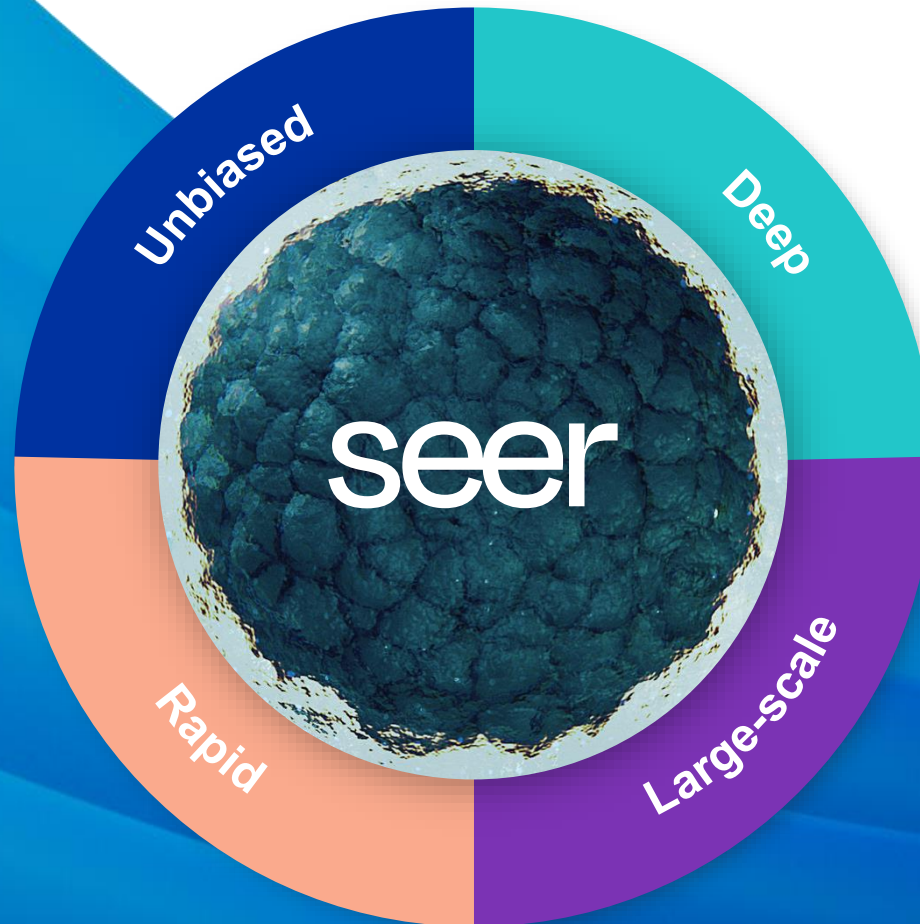


Exceptional performance and flexibility

- High accuracy and reproducibility
- Quantitative measurement
- Broad dynamic range
- 1% false discovery rate (FDR)
- Wide range of sample types
- Species agnostic

Differentiated biological insights and applications

- Protein isoforms
- Protein variants
- pQTLs
- Biomarker discovery
- Drug target discovery
- Model organisms
- QC of biomanufacturing



Significant need for unbiased proteomics at scale



Academic

Translational

Commercial

Pharma

Applied

Customers are excited about the expanded protein coverage and throughput of XT

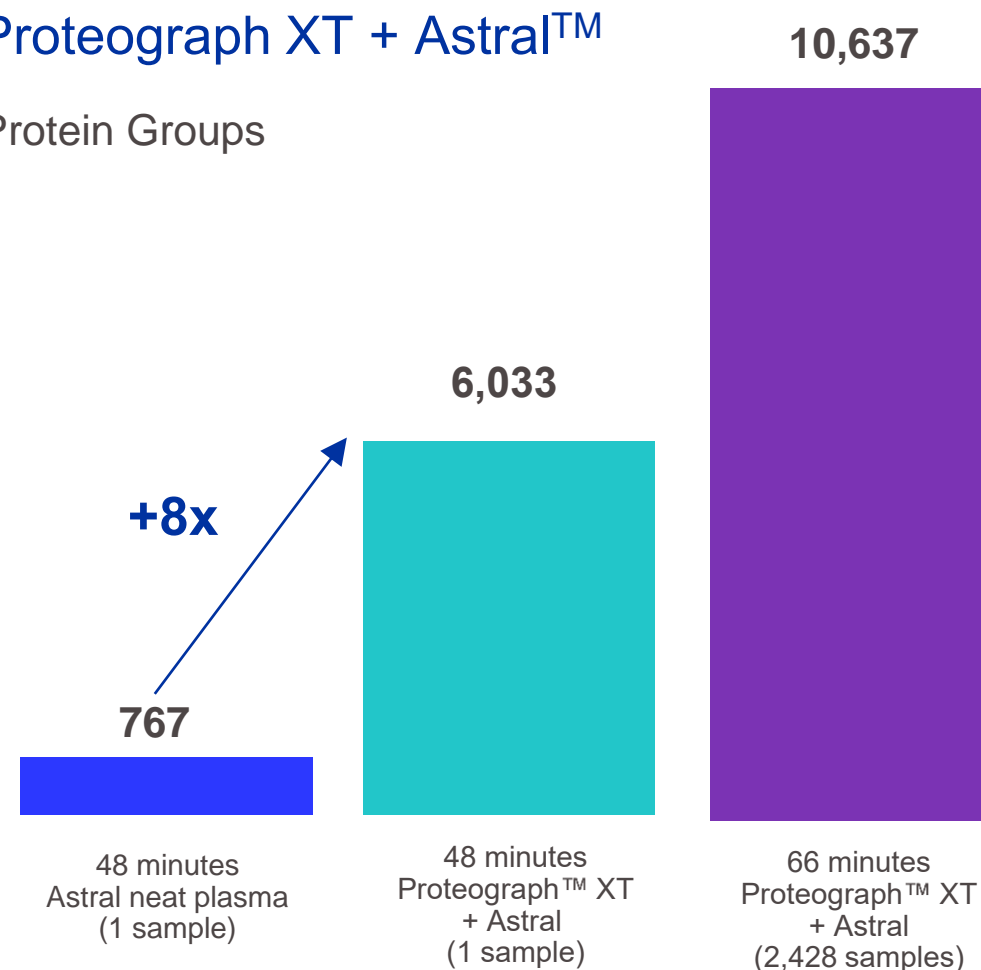
2.5x sample throughput
without sacrificing depth

Significantly more proteins
detected by mass spec with
Seer technology

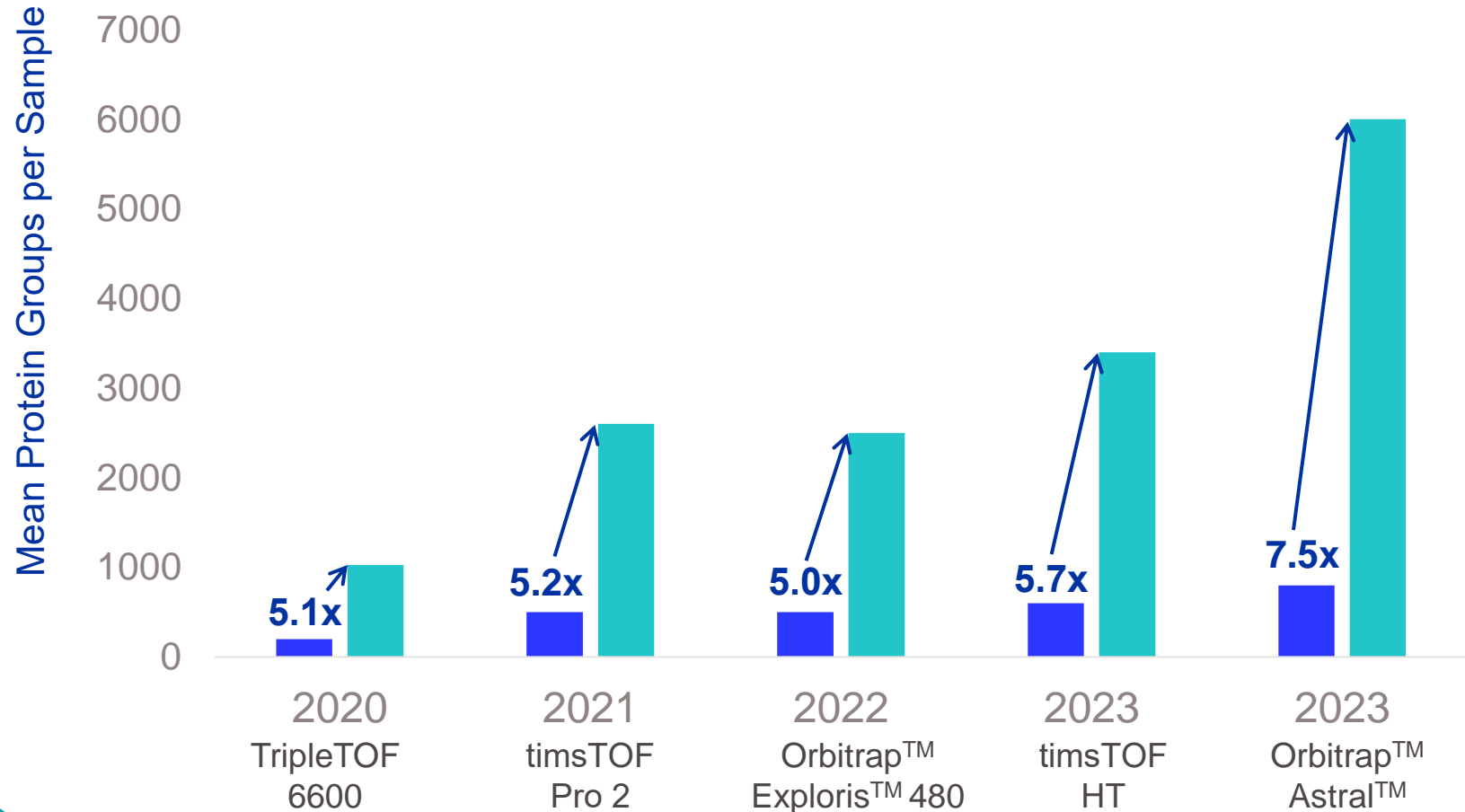
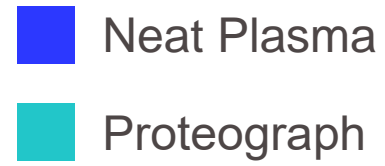
~80% of installed base
using **Proteograph XT**

Proteograph XT + Astral™

Protein Groups



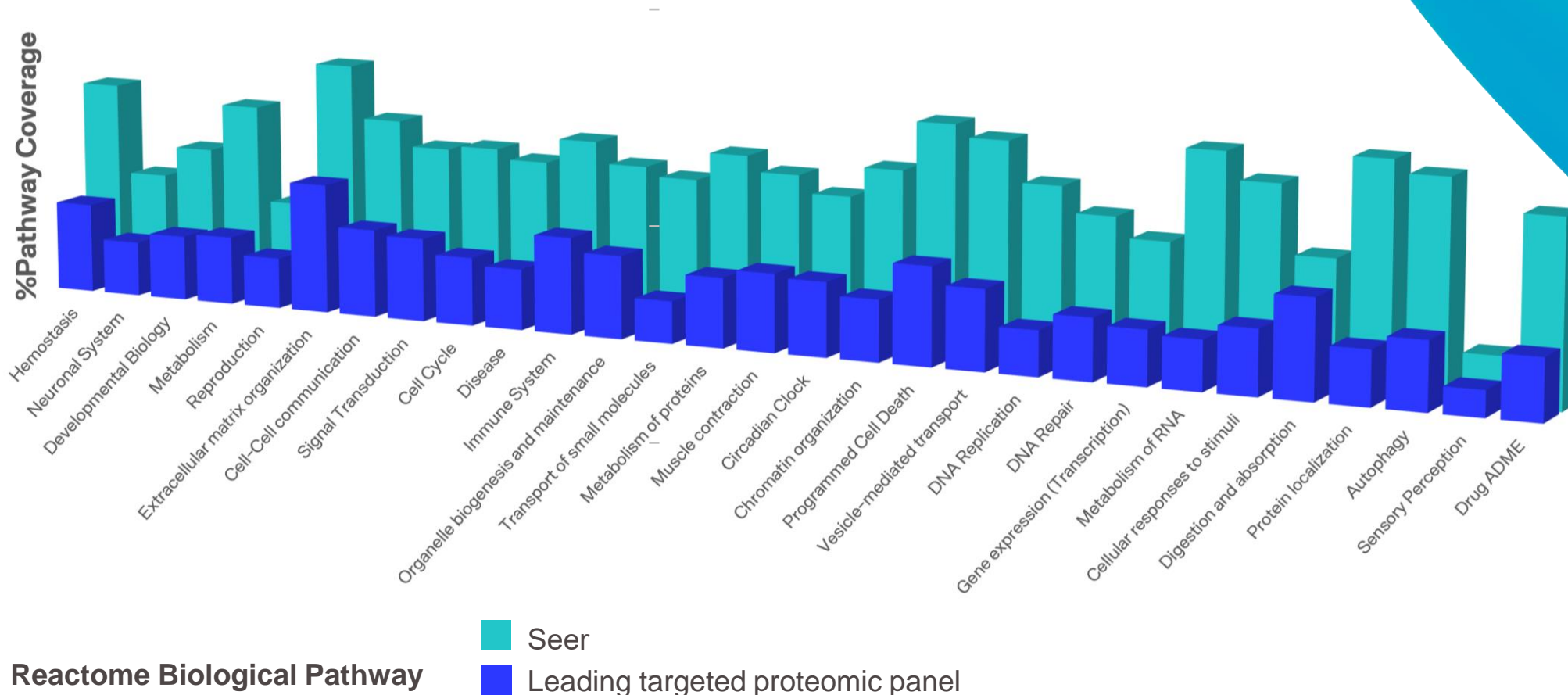
Seer's Proteograph consistently improves mass spec performance



These are representative numbers achieved on these platforms in these years. This is not a direct head-to-head evaluation

Proteograph XT provides industry-leading measurement depth

150,000+ peptides,
10,000+ human proteins,
>1,900 biological
pathways



Seer's Protein Discovery Catalog enables the discovery of biological value

- Growing catalog of 36,000+ proteins across multiple species
- Enables discovery of proteins associated with 100,000+ possible biomarkers
- Includes proteins not yet associated with diseases
- Adds precision, insights, and opportunities for biomarker discovery to genomics and proteomics studies

The screenshot shows the Seer Protein Discovery Catalog website. The header includes the Seer logo and navigation links: Products, Technology, Resources, Support, Company, and Careers. A user profile icon labeled 'PAS' is in the top right. The main banner features the text 'SEER TECHNOLOGY' and 'Protein Discovery Catalog', followed by a description: 'Explore our growing catalog of mass-spec based proteomics data with definitive measurements across multiple sample types and species to bolster confidence in your research.' Below the banner is a 'Protein List' table with search and filter options.

Protein List					
<input type="text" value="Search"/>					
<input type="button" value="Show all disease areas"/>					
<input type="button" value="Show all reactome pathways"/>					
Full Name	Gene Name	Uniprot ID	Keywords	Disease Association(s)	Reactome Pathway
Alpha-1B-glycoprotein	A1BG	P04217	Alternative splicing; Direct protein sequencing; Disulfide bond; Glycoprotein; Immunoglobulin domain; Reference proteome; Repeat; Secreted; Signal	Glioblastoma multiforme	Hemostasis; Immune System
Alpha-1B-glycoprotein	A1BG	P04217-2	Alternative splicing; Direct protein sequencing; Disulfide bond; Glycoprotein; Immunoglobulin domain; Reference proteome; Repeat; Secreted; Signal	Glioblastoma multiforme	Hemostasis; Immune System

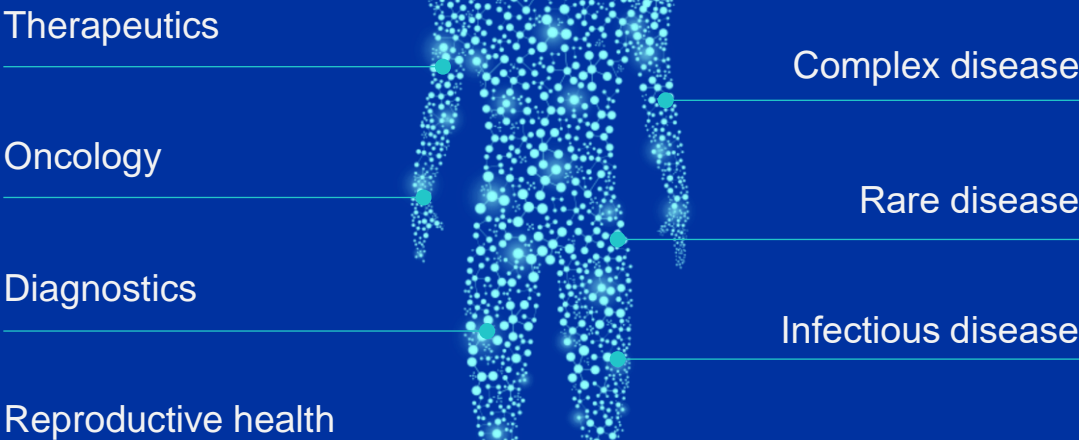
Functional implication of protein variants across the population is massive

Population (~455,000 individuals)



All protein genetic variants	8,868,971
Potential deleterious variants	6,345,457
Protein loss of function	915,289
Change protein structure/binding	> 3 million

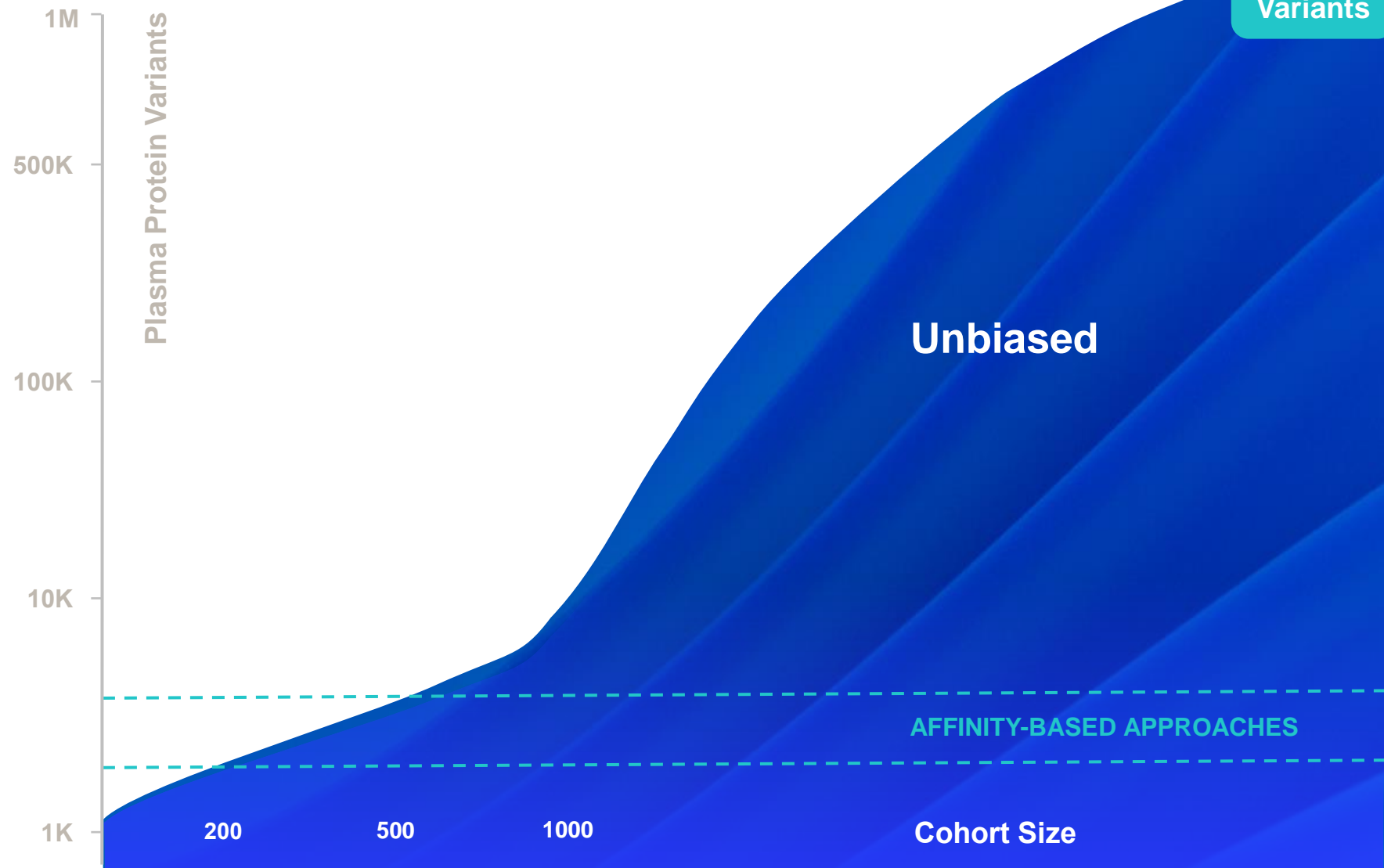
Proteogenomics



Source: Backman, J.D. *et al.* Exome sequencing and analysis of 454,787 UK Biobank participants. *Nature* **599**, 628–634 (2021)

Proteograph enables proteomic content discovery

To date, we have seen 10,000+ human proteins and 150,000+ peptides and the numbers are growing



Strong demand for STAC services exemplifying the power of the Proteograph XT and accelerating adoption

Partnership with
Thermo Fisher Scientific
provides access to newly
launched **Proteograph XT**
+ **Orbitrap Astral LC-MS**

STAC (Seer Technology Access Center)
available in the U.S. and Europe



66

Organizations
served



10

Large pharma
customers



6,000

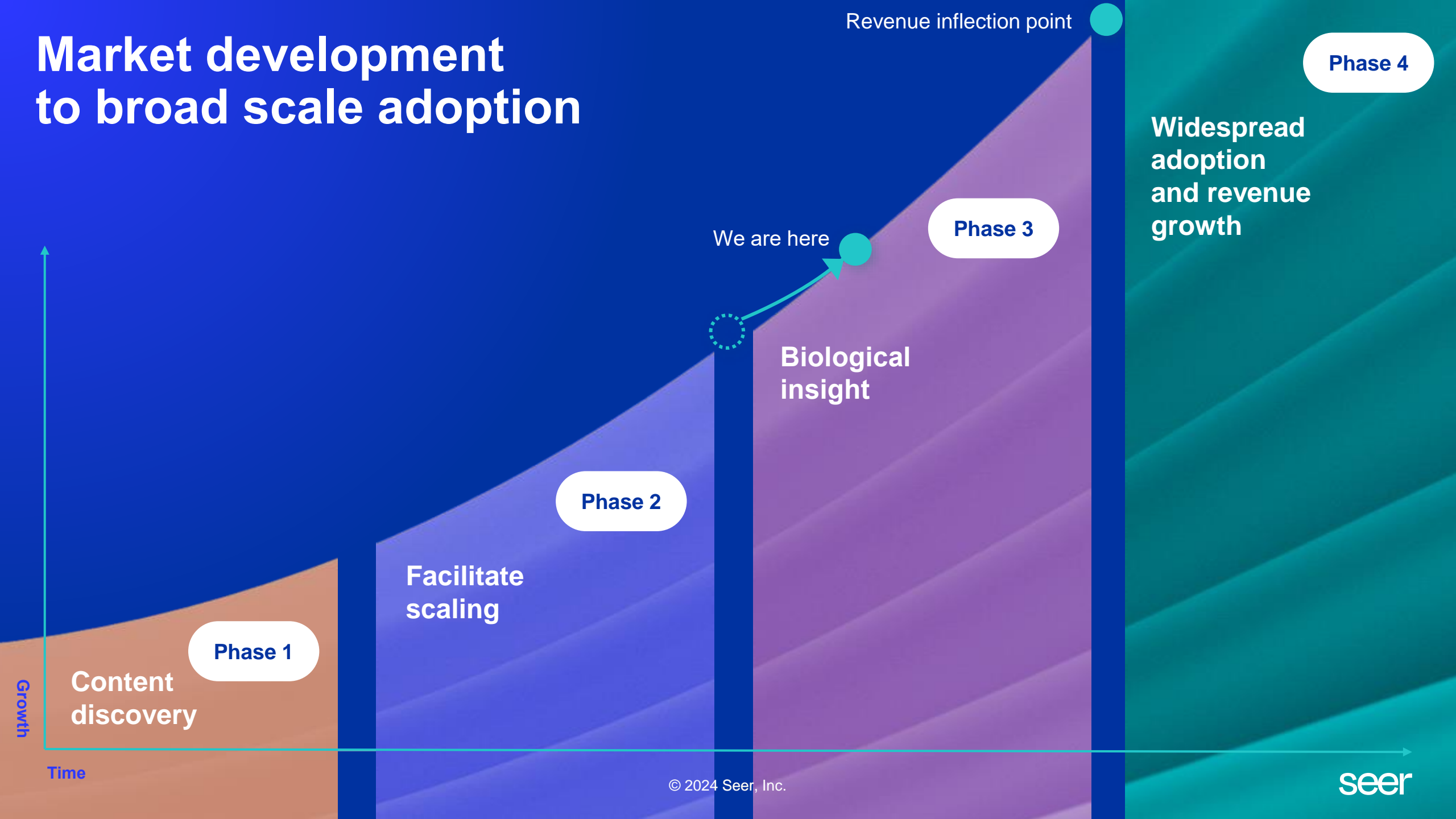
Average protein
groups per plasma
sample



6x

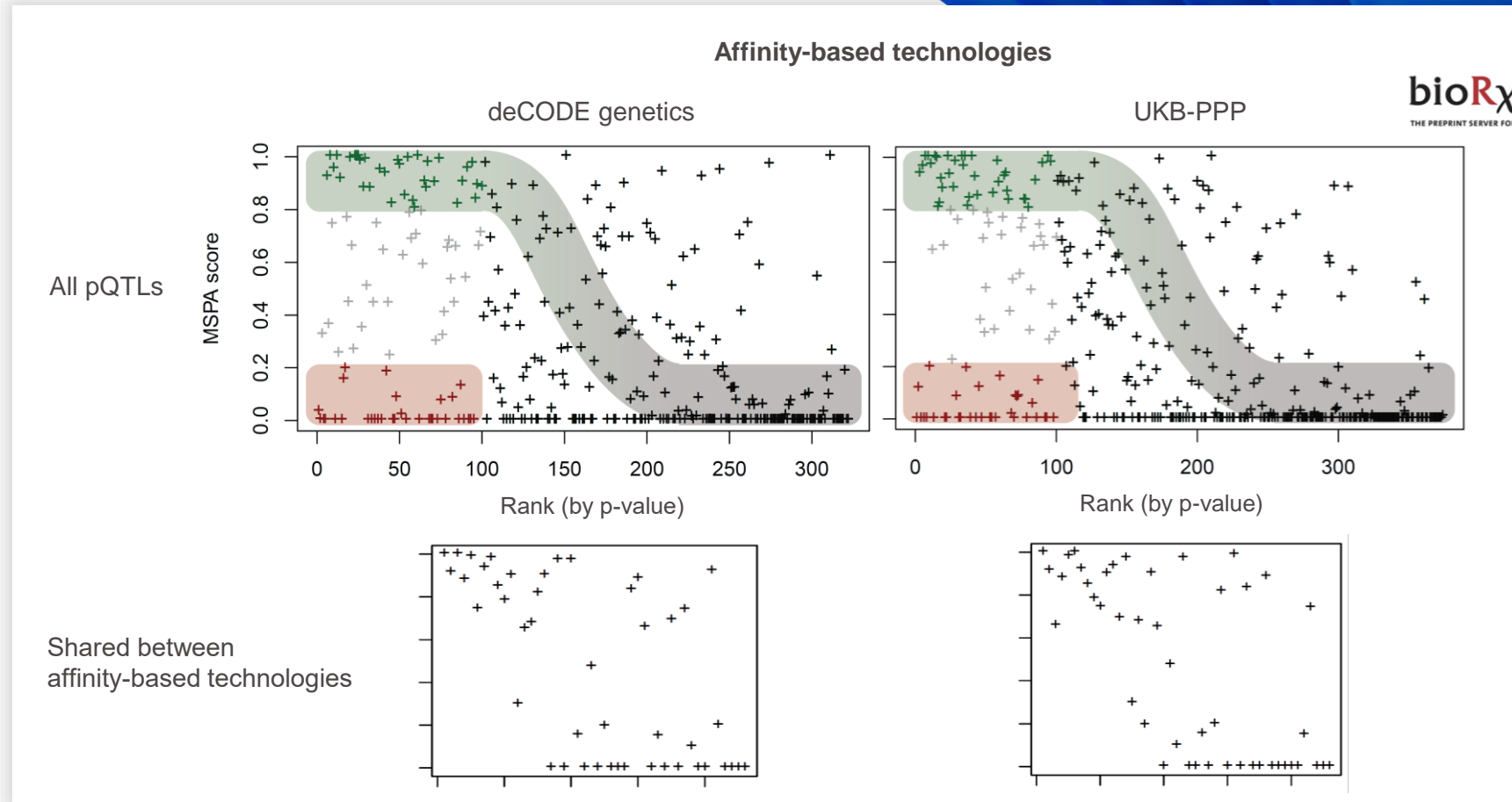
Average fold improvement
over neat plasma

Market development to broad scale adoption



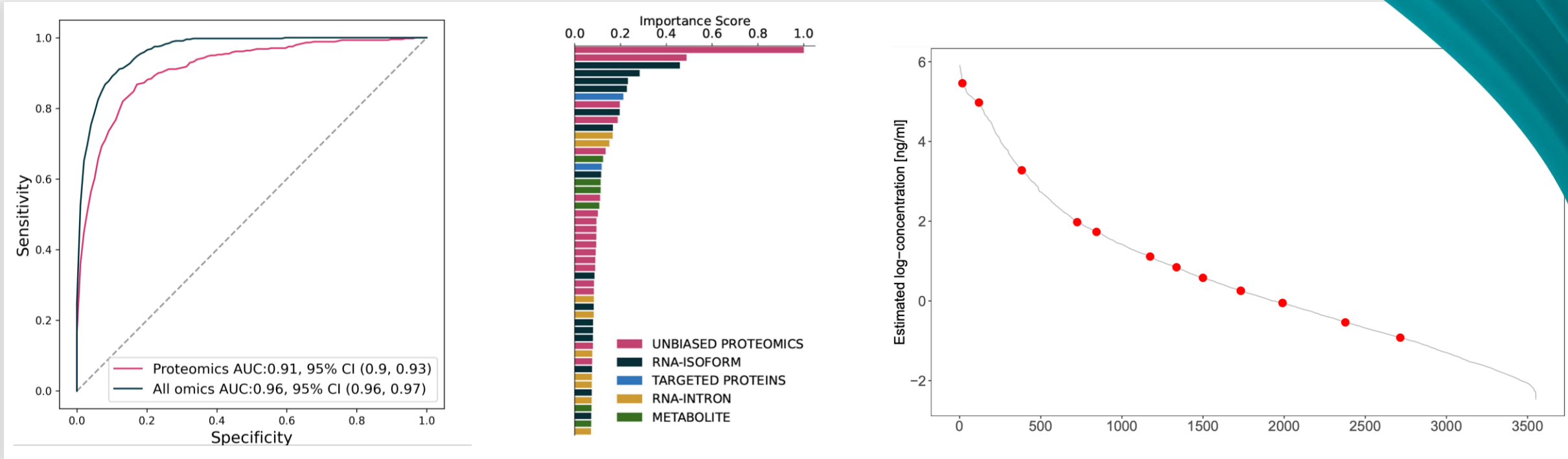
Proteograph distinguishes between true pQTLs and false positives

- **First large-scale pQTL study** using Proteograph for deep, unbiased proteomics with mass spec
- **Up to one third** of strongest pQTLs identified with affinity-based proteomics technologies in two cohorts are **likely false** due to epitope effects
- Follows *Nature Communications* publication demonstrating the ability of the Proteograph to **properly account for variant peptides**



Deep, unbiased proteomics at scale powers a breakthrough advance in early lung cancer detection

Multi-omics profiling detected >13,000 proteins groups, >200,000 RNA transcripts, and >1,000 metabolites



✓ Extremely strong performance

✓ Unbiased proteomics is the key driver

✓ Classifier proteins fall across the dynamic range

~1,800 sample cohort identifies markers of Alzheimer's Disease, fast and slow cognitive decline

138

identified markers of Alzheimer's Disease vs normal

55%

are not present on high-plex affinity panel

94/138

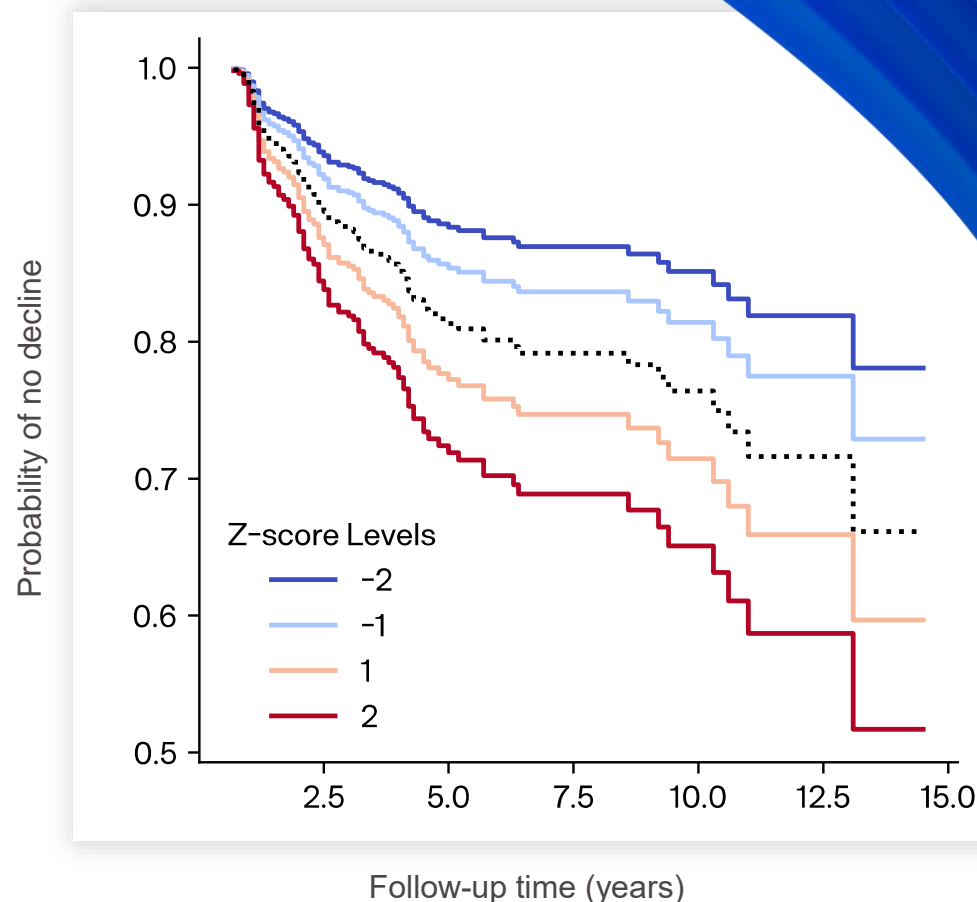
putative novel Alzheimer's disease biomarkers

8

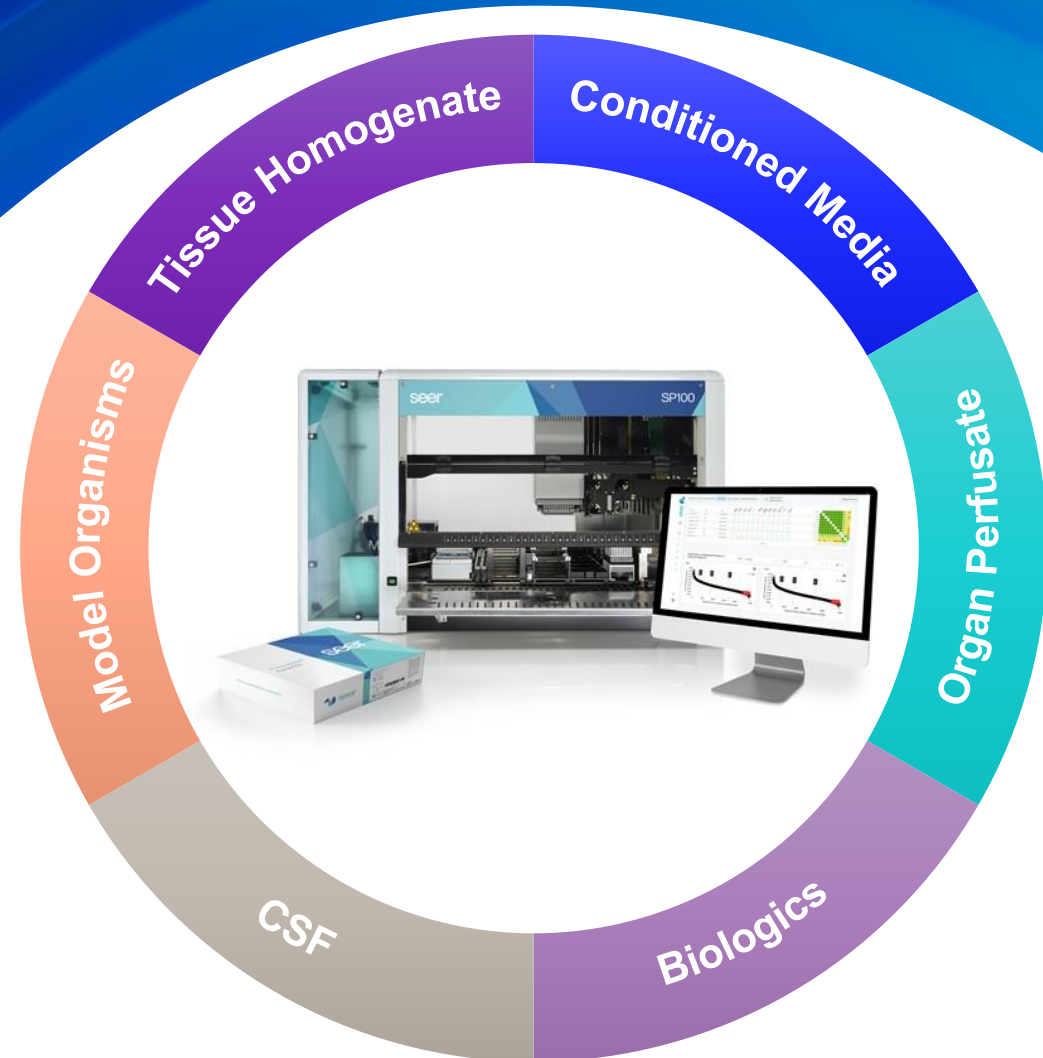
identified markers distinguishing fast and slow progressors of cognitive decline

75%

are not present on high-plex affinity panel

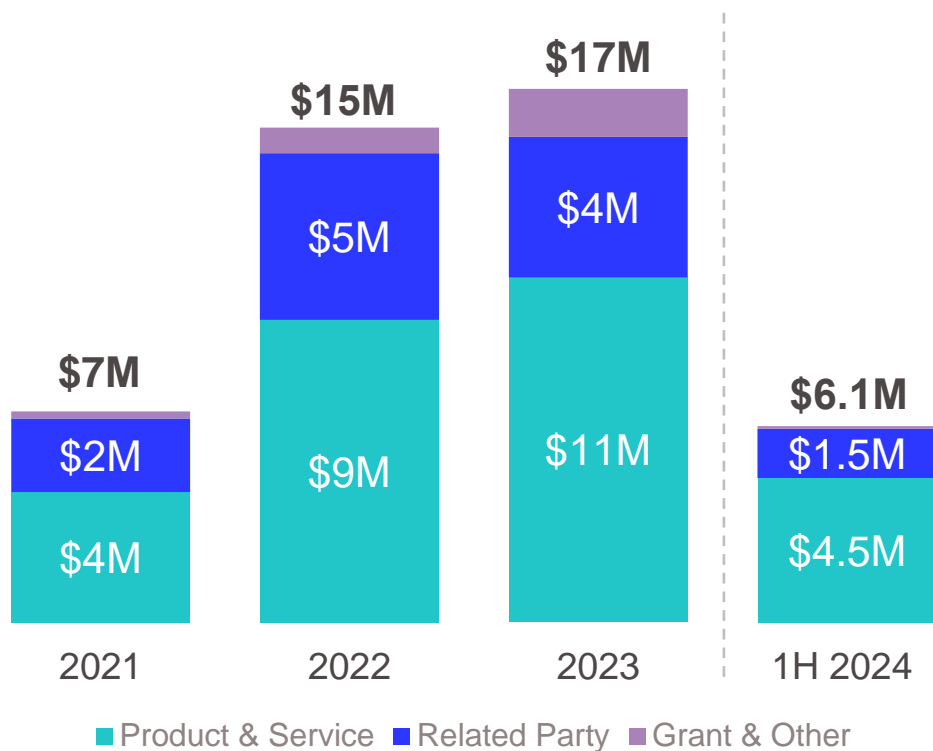


Apps Lab continues to expand protocols, sample types & applications



Enhancing access to Proteograph while preserving strong balance sheet

Revenue (\$ million)



\$344.6 million

cash, cash equivalents and investments,
no debt as of June 30, 2024

50% gross margin in 1H 2024

Reduced operating cash burn
with increased cost efficiency

Authorized \$25 million
open-market repurchase program in Q1 2024

Focus areas for 2024

1

Drive evidence and publications

Deliver cohort studies and strategic collaborations to drive third-party data and evidence

2

Continue to enhance access

Continue to enhance market access and drive additional revenue through STAC

3

Product innovation and application expansion

Address customer adoption barriers with new automation, assays, and software to improve performance, throughput, and lower cost

