



Investor Presentation

November 2024

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All statements other than statements of historical fact could be deemed forward-looking. These forward-looking statements are subject to a number of risks, uncertainties and assumptions, including, among other things the risk factors described in the Company's filings with the Securities and Exchange Commission (“SEC”) and other documents that the Company subsequently files with the SEC from time to time.

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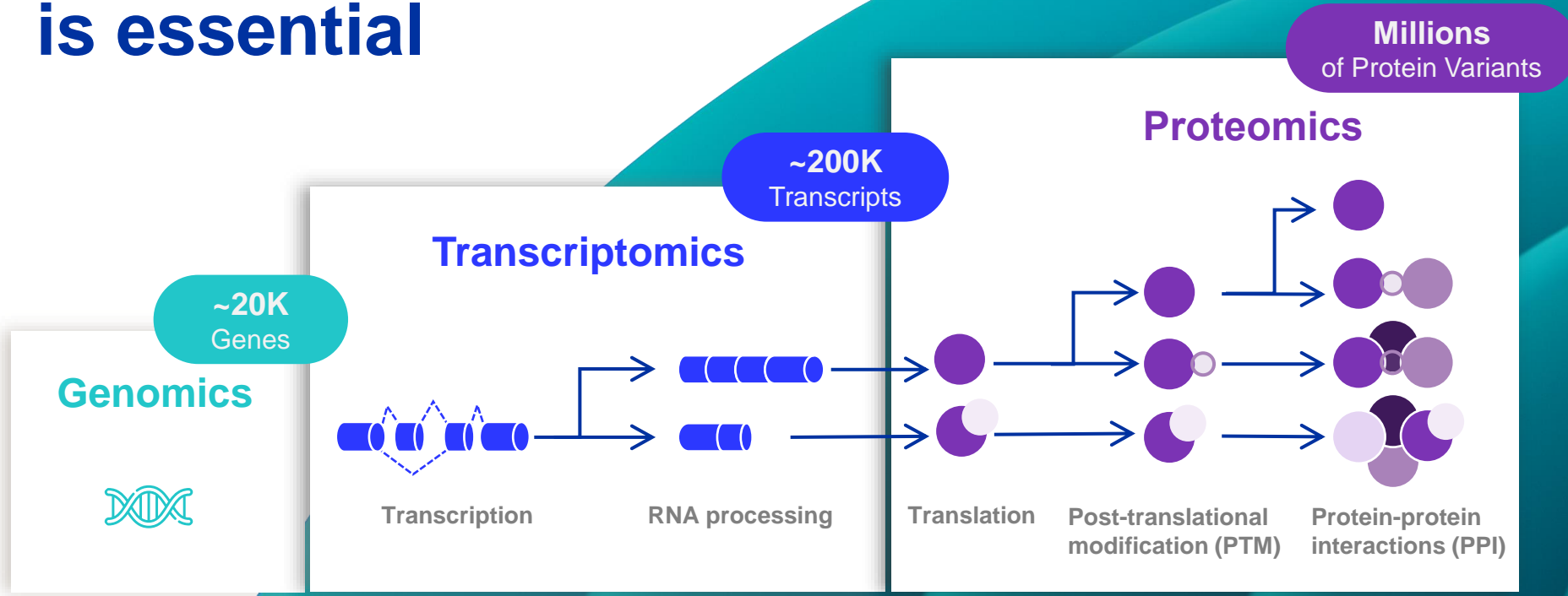
We imagine and
pioneer new ways to

decode the biology of the proteome

to improve human health



Full characterization of the proteome is essential



>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



Resource: **Widespread Expansion of Protein Interaction Capabilities by Alternative Splicing**
 Xinying Yang^{1, 2, 3, 4, 17}, Jasmin Coulombe-Huntington^{5, 17, 18}, Shuli Kang^{6, 17, 18}, Gloria M. Sheynkin^{1, 2, 3, 17}, Tong Hae^{1, 2, 3, 17}, Aaron Richardson^{1, 2, 3, 17}, Song Sun^{7, 8, 9, 10}, Fan Yang^{7, 8, 9}, Yun A. Steh^{1, 2, 3}, Ryan R. Murray^{2, 3, 17}, Kristin Swoboda^{1, 2, 3}, Richard E. Steen^{1, 2, 3, 17}, Michael Dumas-Fitzeth¹¹, Andrew Grotzinger^{11, 12, 13}

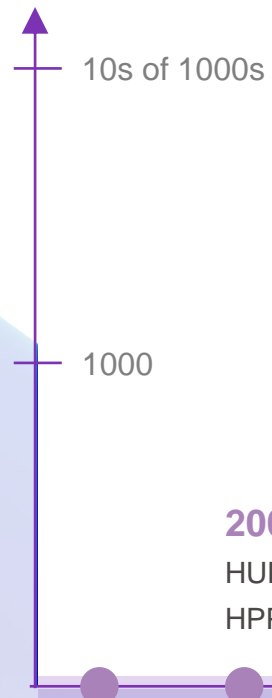
Science Translational Medicine
 HOME > SCIENCE TRANSLATIONAL MEDICINE > VOL. 13, NO. 605 > TGFβ2 AND TGFβ3 ISOFORMS DRIVE FIBROTIC DISEASE PATHOGENESIS
 RESEARCH ARTICLE | FIBROSIS
TGFβ2 and TGFβ3 isoforms drive fibrotic disease pathogenesis
 TIANHE SUN¹, ZHYU HUANG¹, WELCHING LIANG¹, JIANPING YIN^{1, 11} AND JOSEPH R. ARRON¹ +30 authors | Authors Info & Affiliations
 SCIENCE TRANSLATIONAL MEDICINE • 9 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-Solano[✉], Stephanie E. Crilly, Duccio Malinverni, Christian Munk, Matthew Harris, Abigail Pearce, Tezz Quon, Amanda E. Mackenzie, Xusheng Wang, Junmin Peng, Andrew B. Tobin, Graham Ladds, Graeme Milligan, David E. Gloriam, Manojkumar A. Puthenveedu & M. Madan Babu[✉]

Science Signaling
 Opposing roles of RUBCN isoforms in autophagy and memory B cell generation
 CHAO-YUAN TSAI¹, SHUHEI SAKAKIBARA², YUJIRO KIKUKAWA³, HIROKO ONDRE^{1, 4} AND HITOSHI KIKUTANI⁵ +7 authors | Authors Info & Affiliations
 SCIENCE SIGNALING • 19 Sep 2023 • Vol 16, Issue 803 • DOI: 10.1126/scisignal.ade3592

Changing the trajectory of deep unbiased proteomics

Deep Unbiased Study Size (# samples)



1999

1st PubMed mention of Human Proteome Project

2001

HUPO founded
HPPP launched

2015

Deepest study (16 samples; 5,300 proteins)

2017

Seer founded

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

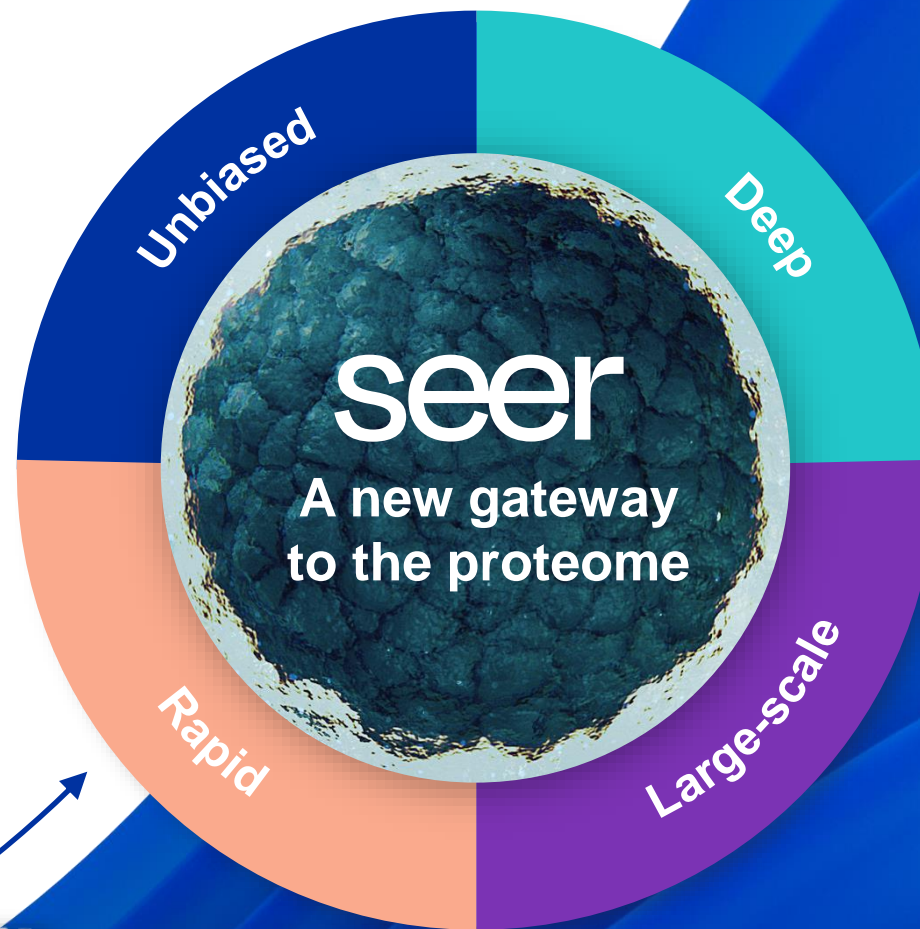
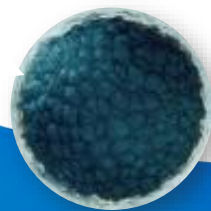


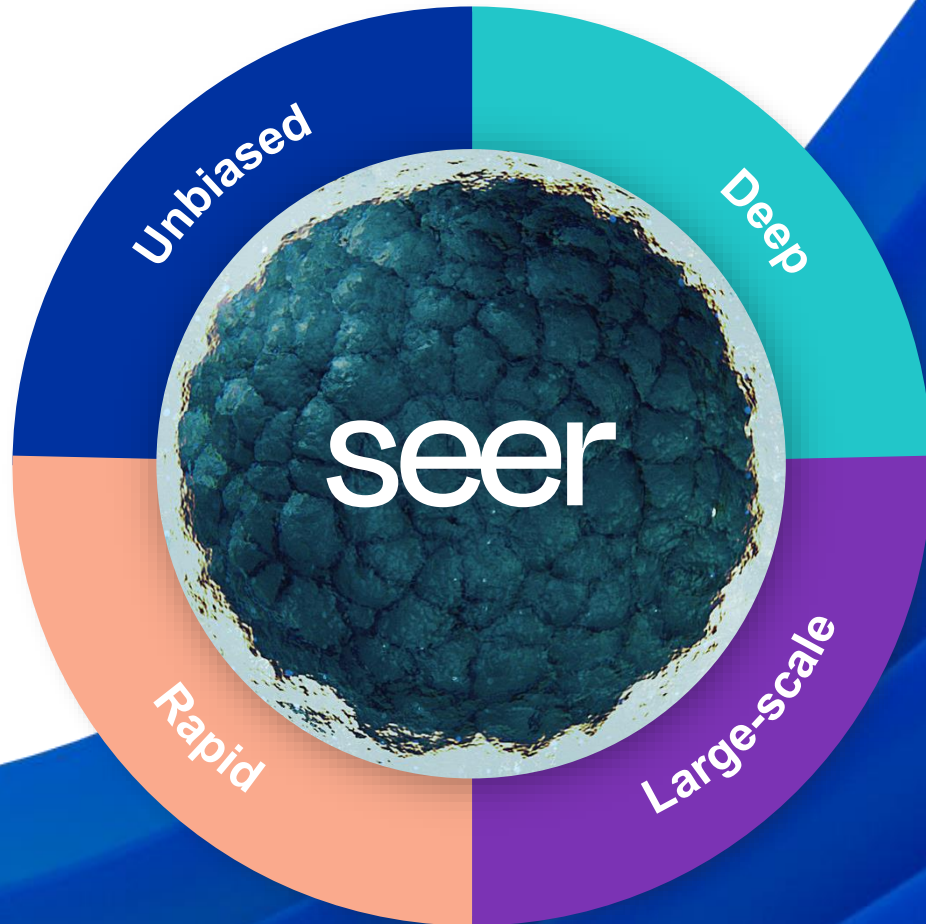
Seer enables unbiased, deep and rapid proteomic analysis at scale

Taking advantage of the way proteins interact



Lab on a nanoparticle



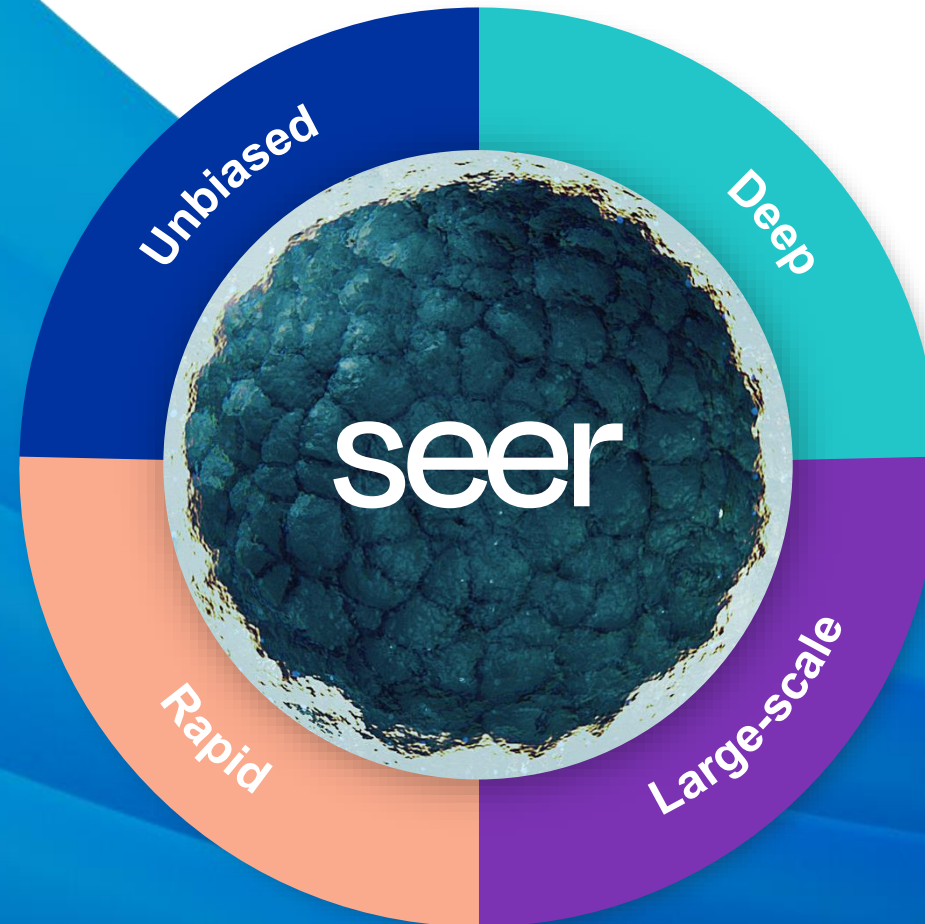


Exceptional performance and flexibility

- 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

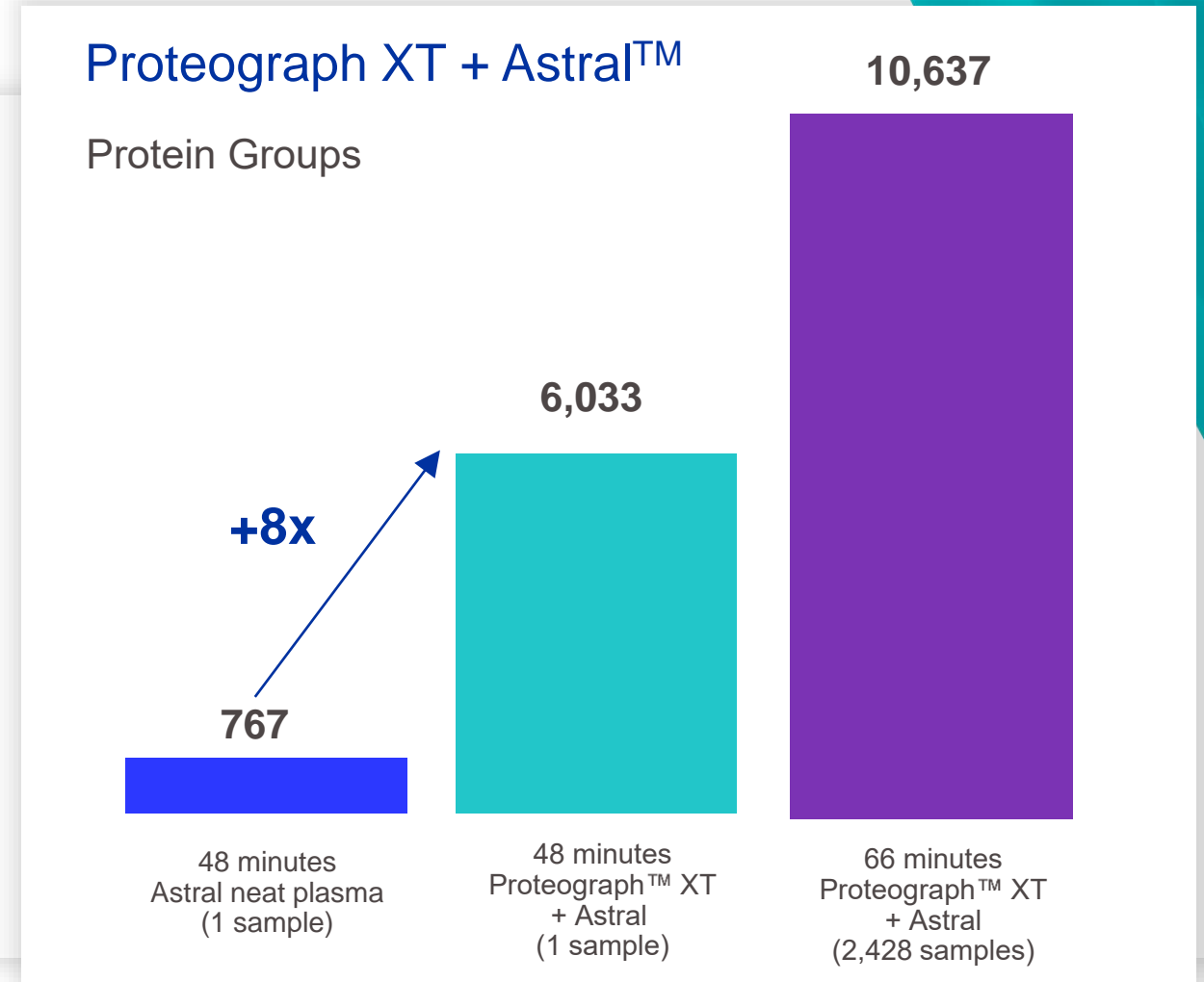
Applied

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

2.5x sample throughput
without sacrificing depth

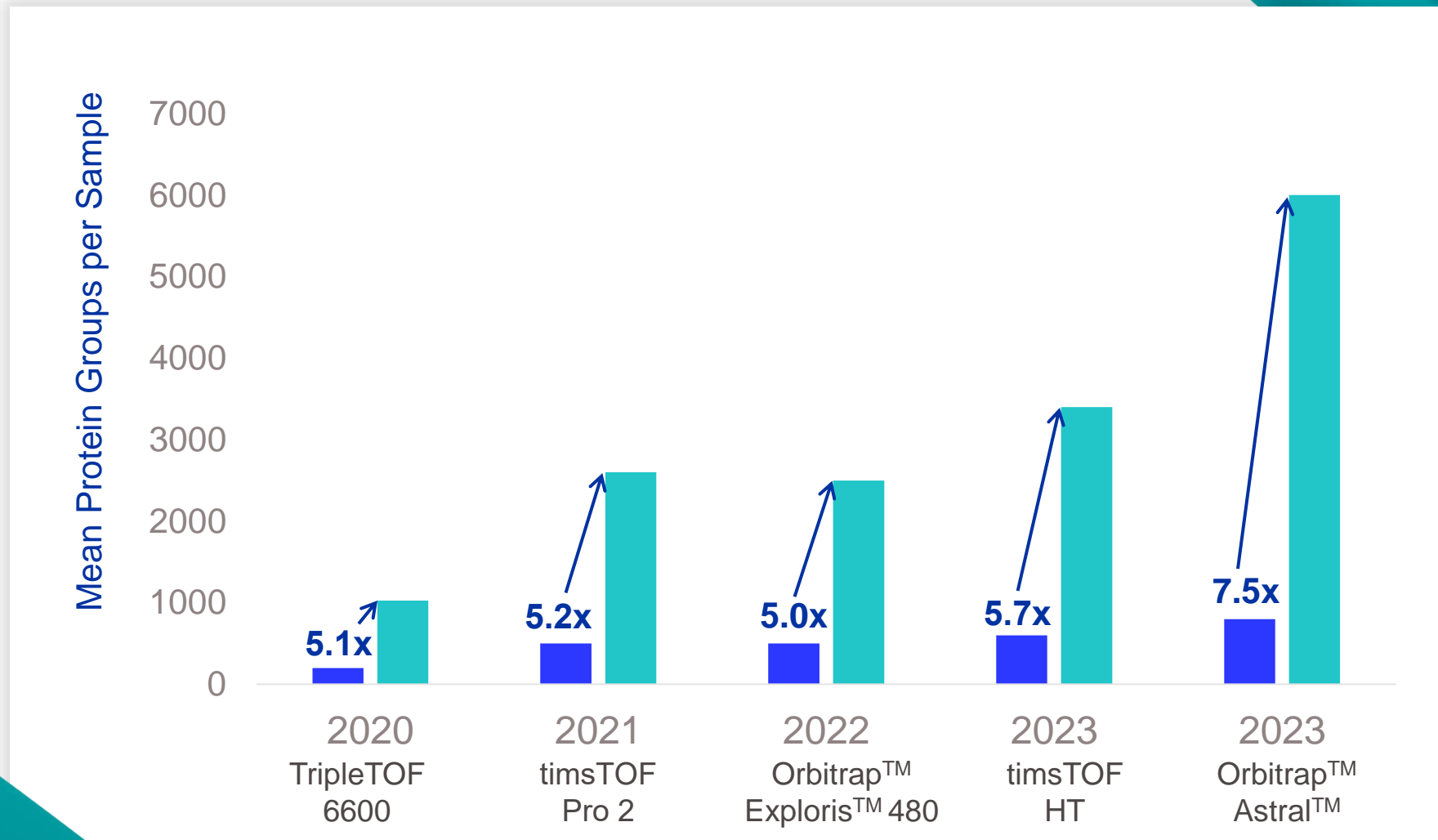
Significantly more proteins detected by mass spec with Seer technology

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



Seer's Proteograph consistently improves mass spec performance

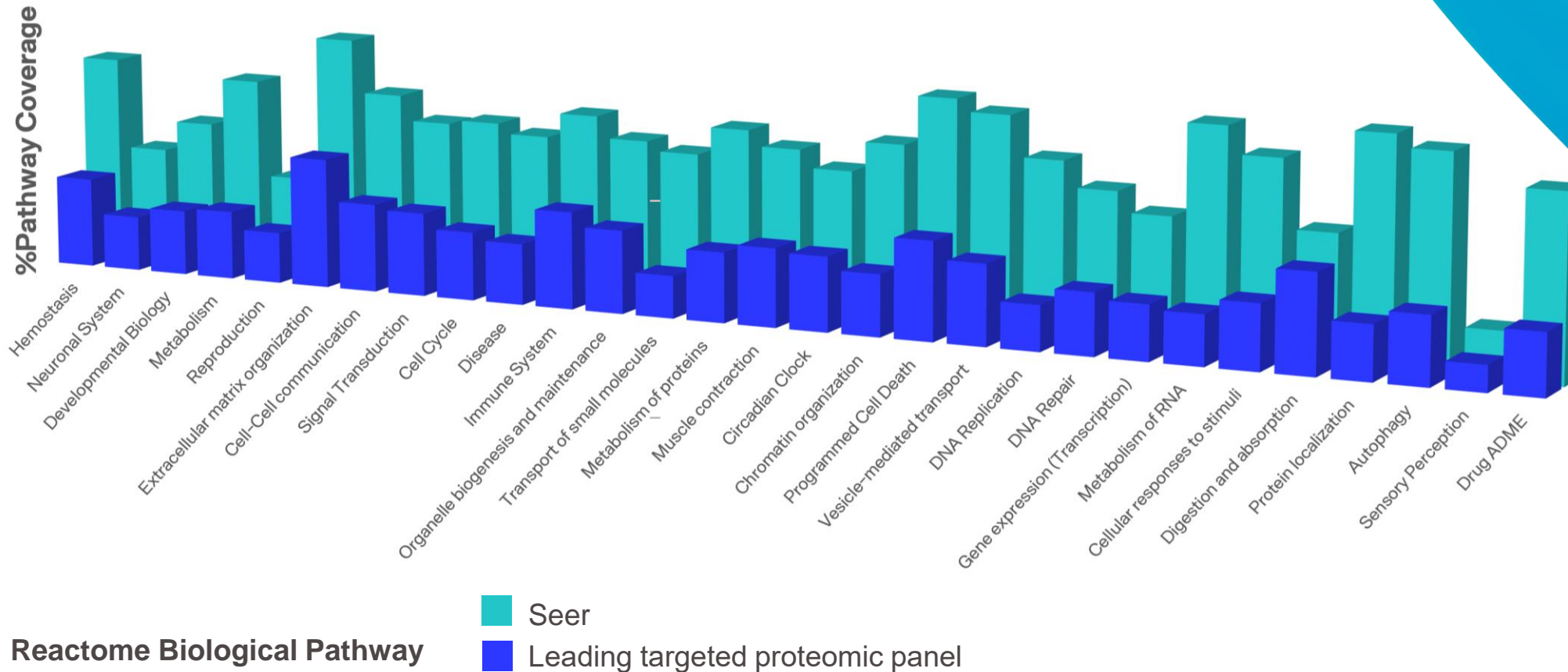
■ Neat Plasma
■ Proteograph



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 for Products, Technology, Resources, Support, Company, and Careers. A user profile icon labeled 'PAS' is in the top right. The main heading is 'SEER TECHNOLOGY Protein Discovery Catalog'. Below the heading is a descriptive paragraph: '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 this is a 'Protein List' table with search and filter options.

Protein List					
Q Search					
Show all disease areas					
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

Therapeutics

Oncology

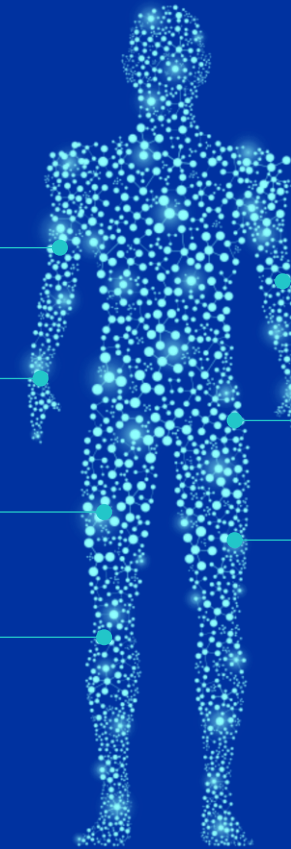
Diagnostics

Reproductive health

Complex disease

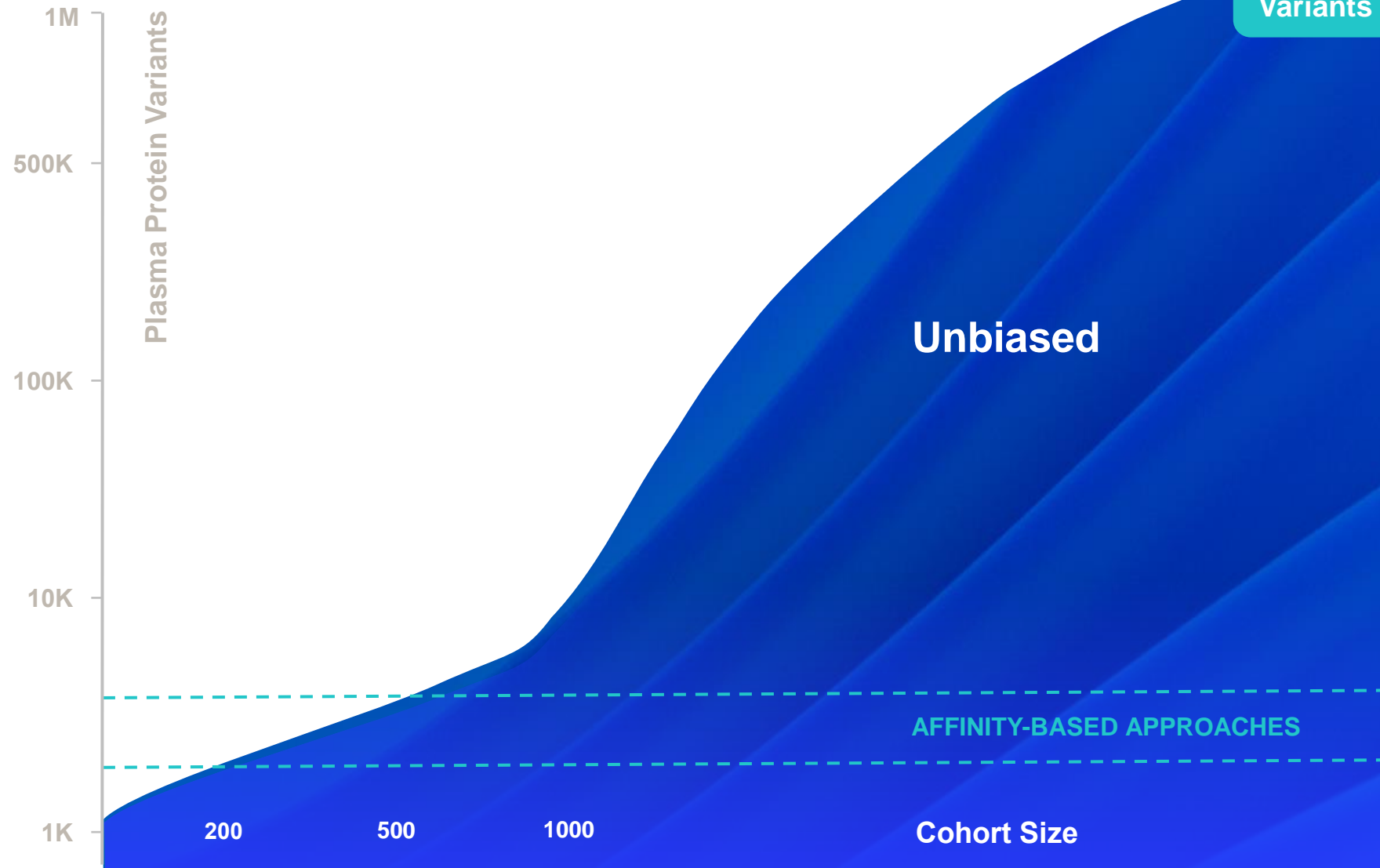
Rare disease

Infectious disease



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

Revenue inflection point

Phase 4

Widespread adoption and revenue growth

Phase 3

We are here

Biological insight

Phase 2

Facilitate scaling

Phase 1

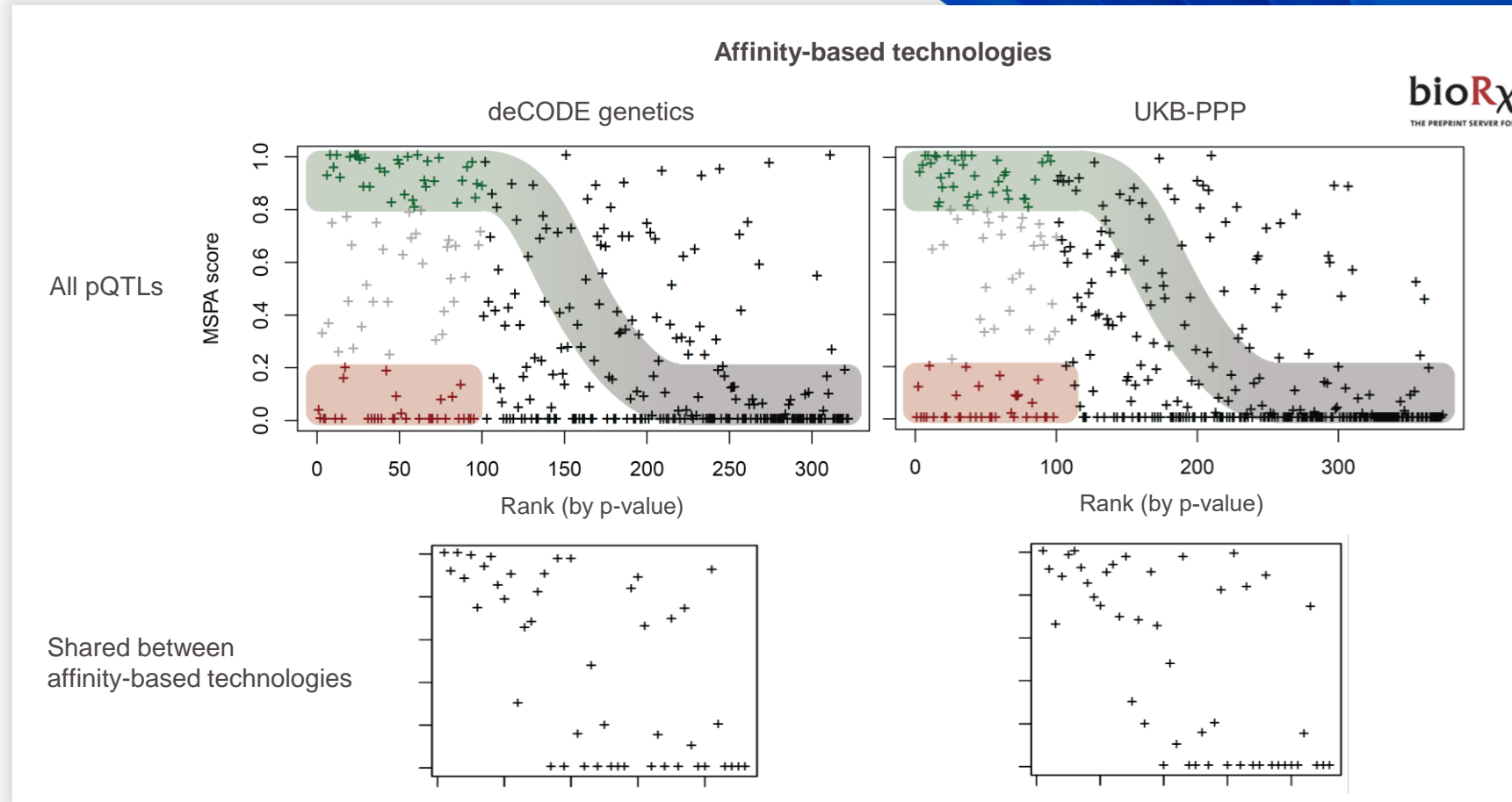
Content discovery

Growth

Time

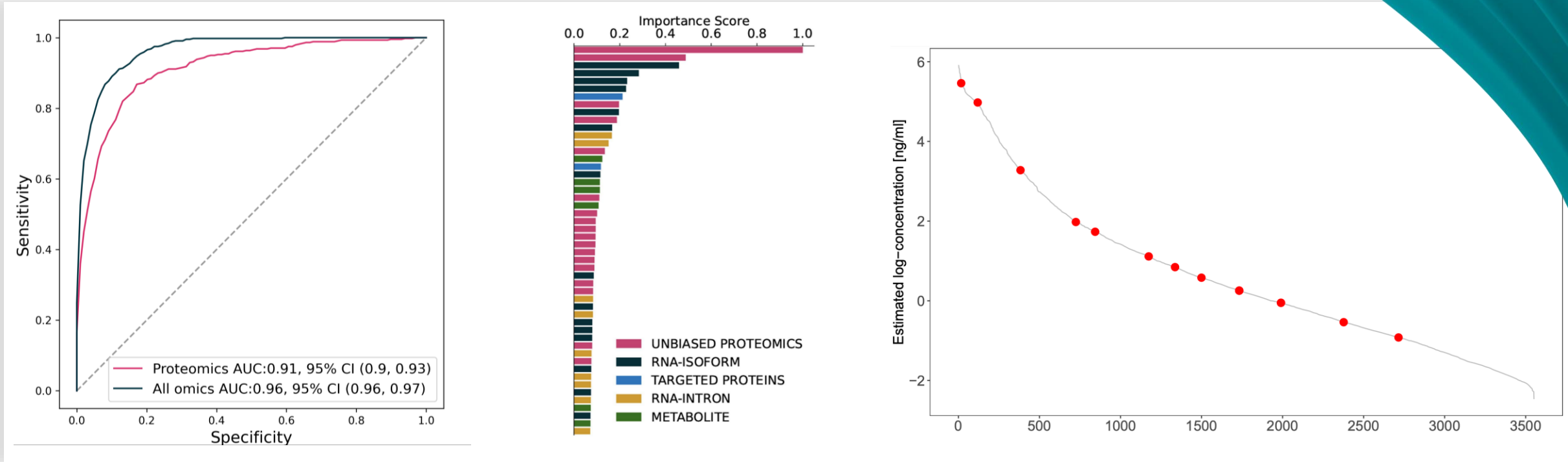
Proteograph distinguishes between true pQTLs and false positives

- **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

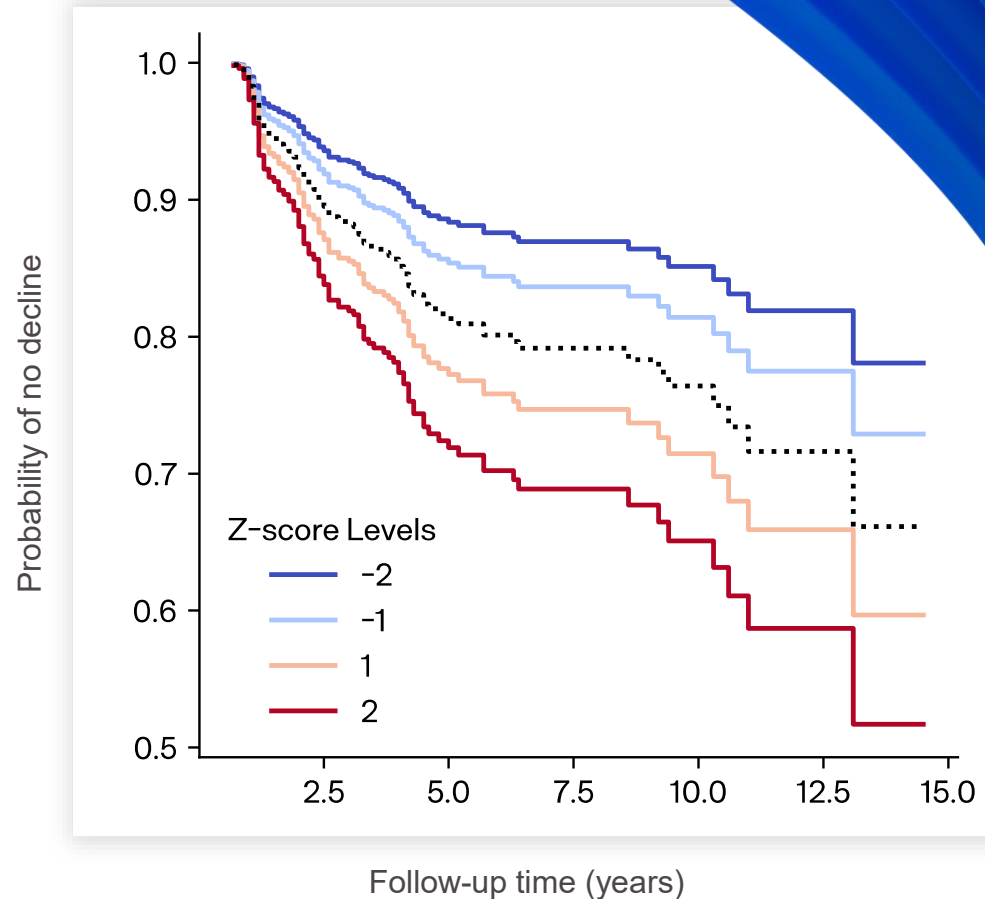
putative novel Alzheimer's disease biomarkers

8

identified markers distinguishing fast and slow progressors of cognitive decline

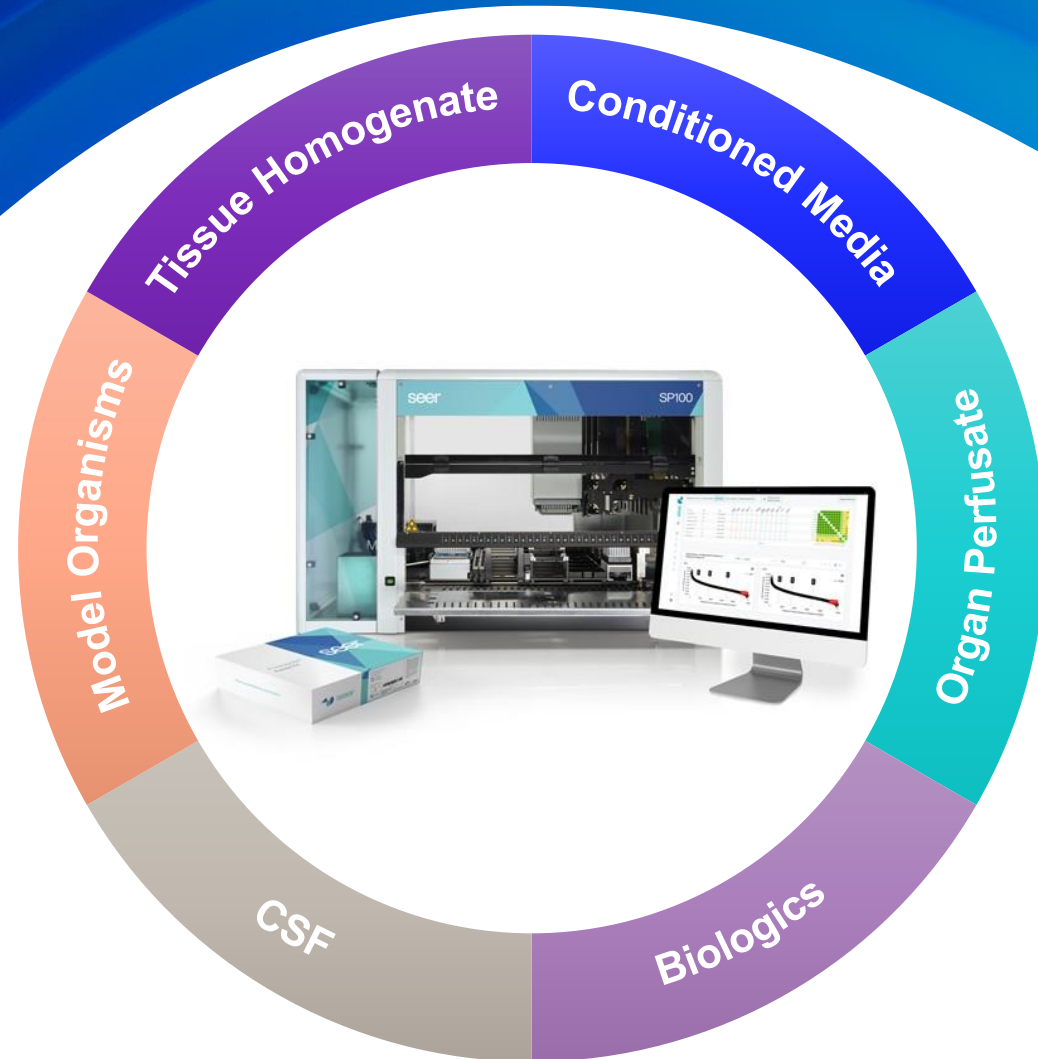
75%

are not present on high-plex affinity panel

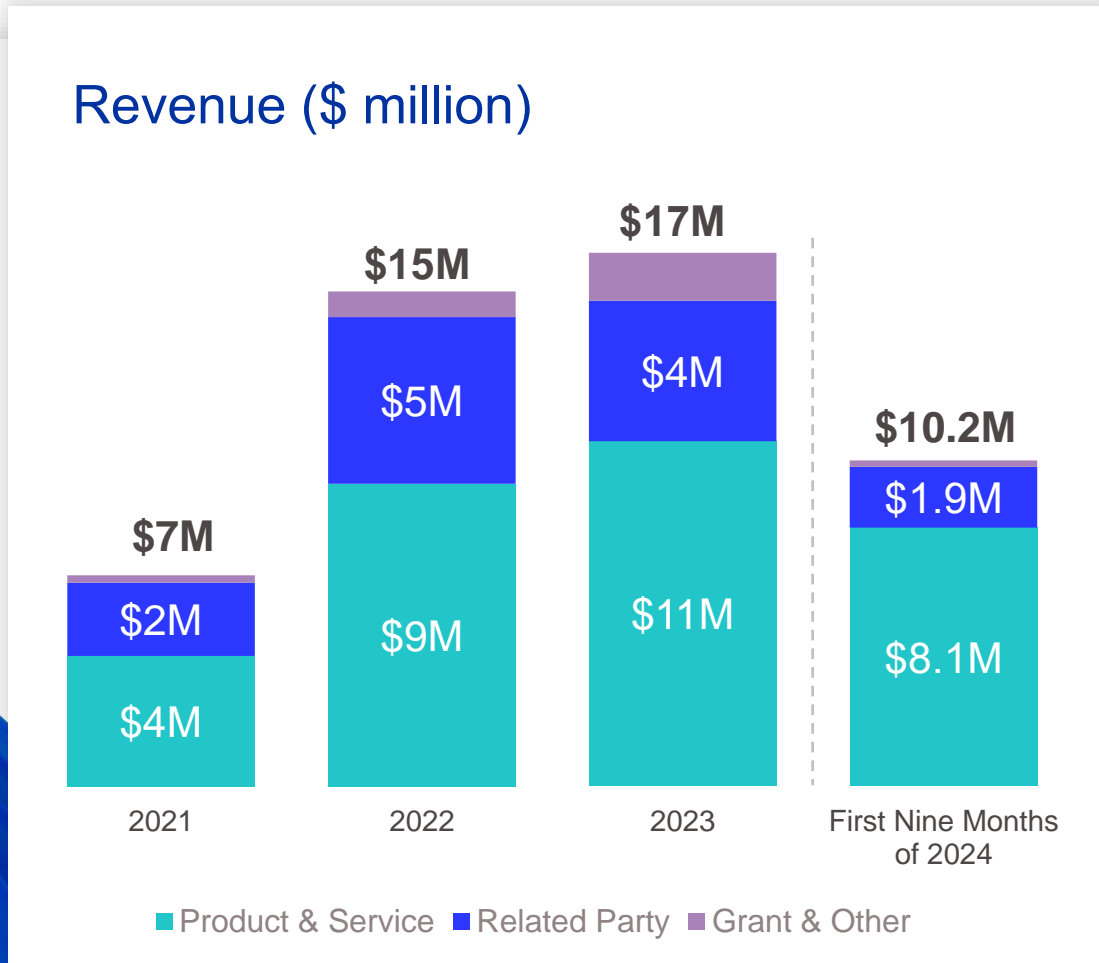




Apps Lab continues to expand protocols, sample types & applications



Enhancing access to Proteograph while preserving strong balance sheet



\$312.5 million

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

49.5% gross margin in first nine months of 2024

Reduced operating cash burn
with increased cost efficiency

Authorized \$25 million
open-market repurchase program in Q2 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



seer