



Early Detection, Smarter Decisions

How proteomics can improve
clinical trial efficiency

The drug development challenge



The most expensive failures
occur in late-stage trials.



Alternately, when drugs solve
unexpected problems, it takes
companies years to capitalize
on these benefits.



New tools are needed to improve decision-making early.

Why proteomics matters for the future of clinical trials

LOWER COSTS



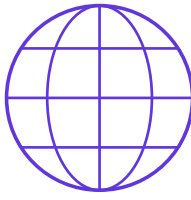
Fewer participants,
shorter durations

IMPROVED PRODUCTIVITY



Terminate programs
earlier for lack of efficacy
or adverse effects

WIDER UTILITY



Drug mechanisms,
efficacy, adverse events

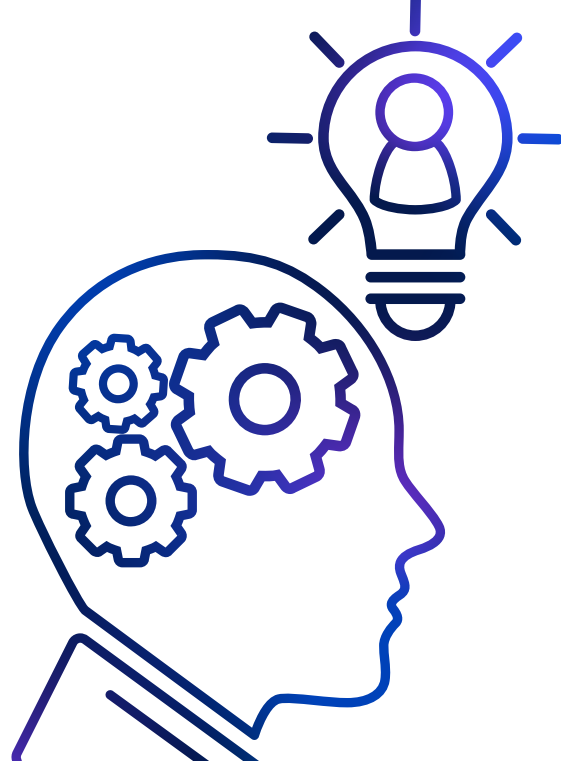
FASTER DECISION



Accelerate time to market

From trial challenges to smarter decisions

Key insights from a multi-trial analysis



Using advanced proteomic testing, such as SomaSignal™ Tests (RUO), can help overcome major drug development challenges by:

- Detecting benefits and adverse effects much earlier in the trial process
- Reducing costs by identifying drug effects with fewer participants and shorter study durations
- Improving safety by flagging unsafe drugs sooner, minimizing risk for participants and companies
- Enabling a holistic approach to trial design across many diseases and drug types

Multi-trial analysis across disease areas

This study conducted a retrospective
proteomic analysis of four completed
clinical trials:

- EXSCEL: exenatide trial in type 2 diabetes (cardiovascular outcomes)
- SUGAR-DM-HF: empagliflozin trial in heart failure (with prediabetes or type 2 diabetes)
- AMPLE: abatacept and adalimumab trial in rheumatoid arthritis
- PRADA: FEC anthracycline chemotherapy in early breast cancer (cardiovascular imaging outcomes)

Key methods:

- Longitudinal blood samples
- Proteomic profiling using the SomaScan™ Assay
- SomaSignal Tests to predict changes in cardiometabolic traits (for example, liver fat, body fat, cardiovascular risk)

Unlock the potential of proteomics in your drug development pipeline

Read the full publication to learn how
blood-based proteomic testing enables
faster, smarter and safer trials

accp1.onlinelibrary.wiley.com/doi/10.1002/jcph.70077

Learn about SomaSignal Tests

somalologic.com/somasignal-tests-for-research-use/

