

Title of proposed idea:

Nominator: Robert Gerszten

What is the major obstacle/challenge in the field? What is needed to overcome this obstacle/challenge?

Over 95% of human proteins cannot be studied because we lack reliable laboratory methods (assays) for measuring their abundances. This lack of reliable assays for measuring the vast majority of human proteins has left the proteome clinically inaccessible and indeed is the *biggest impediment to translating novel protein diagnostics into clinical use*.

What emerging scientific opportunity is ripe for investment by a Trans-NIH program (e.g. the NIH Common Fund)?

More extensive resources are needed for the the development and implementation of immuno-SRM assay technology across the entire human proteome

What are the potential Trans-NIH investments that could accelerate scientific progress in this field?

Investment in the above technology.