



Unlock Brain-Derived Signals with Neuro SPARCs™

Liquid Biopsy Solutions Advancing Neuro Drug Development

What Are Neuro SPARCs?

Neuro SPARCs (Selective Protein Affinity Reagent Chemistries) is FYR's proprietary enrichment technology that captures EV subpopulations originating from neural tissue. SPARCs uses affinity-based capture reagents optimized for **selectively enriching brain-derived EVs from blood**, preserving intact vesicles for downstream multiomic analysis (protein, RNA, other cargos).

This targeted enrichment dramatically improves assay sensitivity and biological relevance for neurological applications.

Neuro SPARCs Improve Detection Of Brain-Derived Proteins From A Variety Of Brain-Specific Cell Types

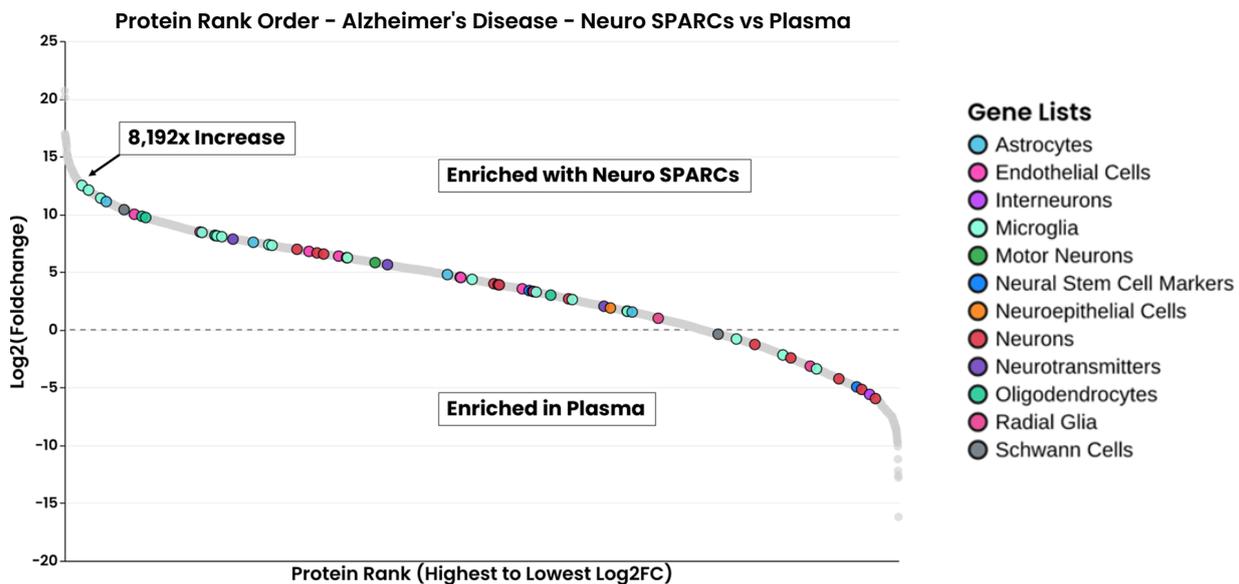


Fig 1. Neuro SPARCs enrich more differentially expressed brain-derived proteins from brain-specific cell types in Alzheimer's Disease samples compared to plasma.

Overcoming Neuro Drug Development Challenges

Neurological drug development is limited by the inaccessibility of the brain and the low signal-to-noise ratio of conventional biofluids. FYR Bio overcomes this challenge with its proprietary Neuro SPARCs technology, a liquid biopsy approach that selectively enriches brain-derived extracellular vesicles (EVs) from blood.

Enriching Brain-Derived EVs, Neuro SPARCs:

- Amplifies neuro-specific markers and disease-associated molecular signals from the brain
- Significantly reduces background noise from peripheral tissues
- Enables sensitive, repeatable, and minimally invasive monitoring

Key Value Proposition

- Non-invasive access to the brain
- Highly enriched brain-derived EVs
- Scalable, reproducible liquid biopsy platform
- Designed for translational and clinical use

Partner With Us To Support Drug Development

We partner with pharmaceutical and biotechnology companies to integrate Neuro SPARCs across the drug development lifecycle:

Preclinical & Translational

- Biomarker discovery
- Target engagement and MOA studies

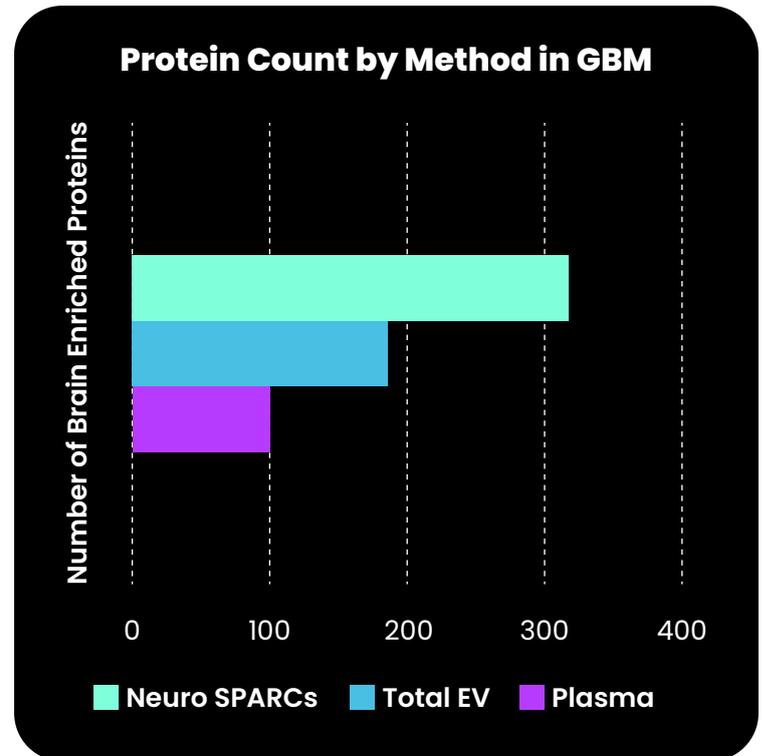
Clinical Development

- Patient stratification and cohort selection
- PD and treatment response biomarkers
- Longitudinal disease monitoring

Why Partners Choose FYR

- End-to-end sample-to-insight services
- Deep expertise in EV biology and neurology
- Flexible study design tailored to programs

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Advance Your Neurology Program with Neuro SPARCs

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