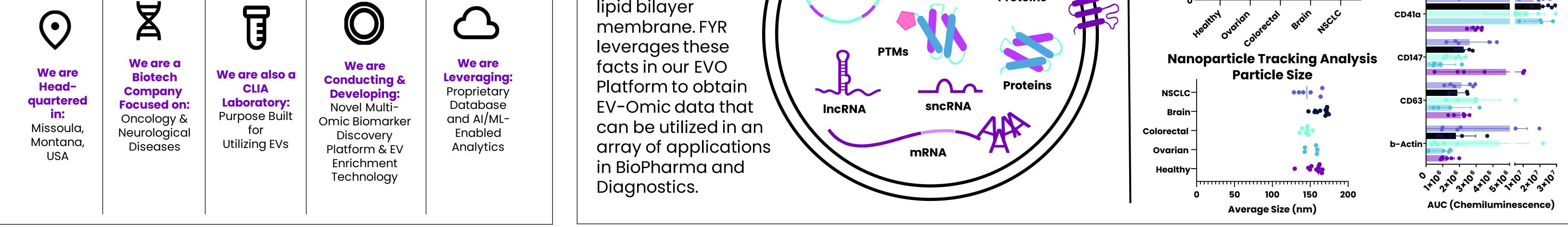


The Clinical Utility of Extracellular Vesicles in Liquid Biopsy

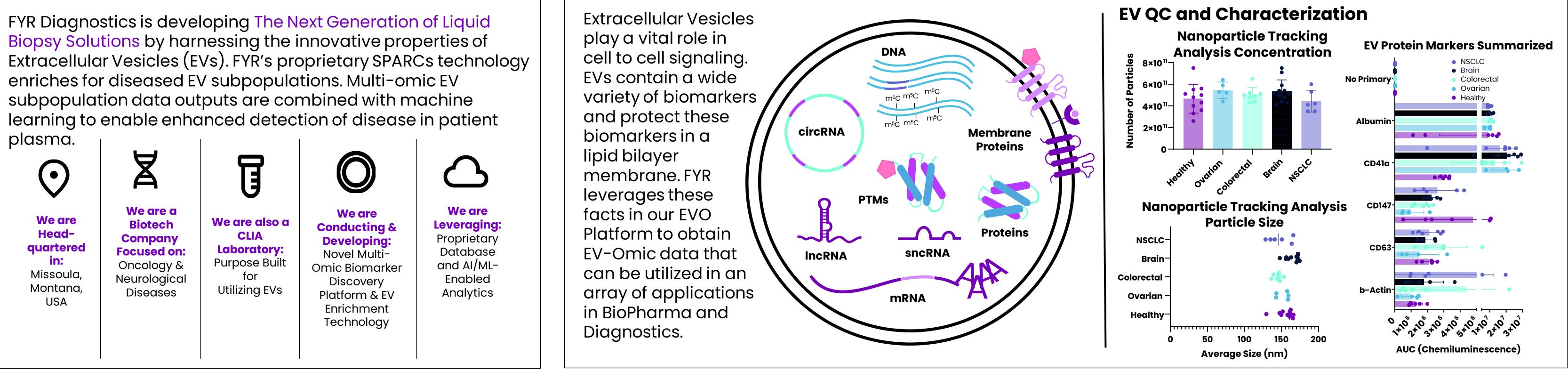
Adam LaBonte, Rachel Short-Miller, Lara Taubner, Sean Lodmell, Matt Manwaring, Claire Seibold, Katie Havranek

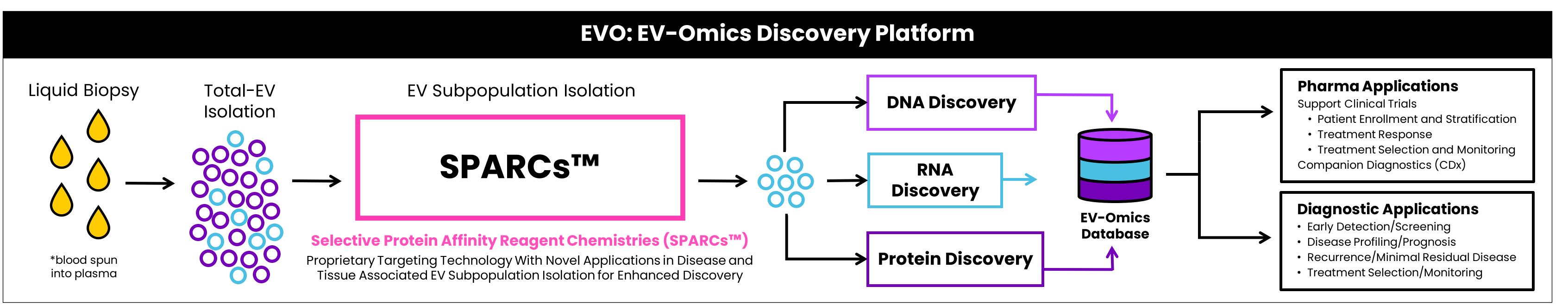




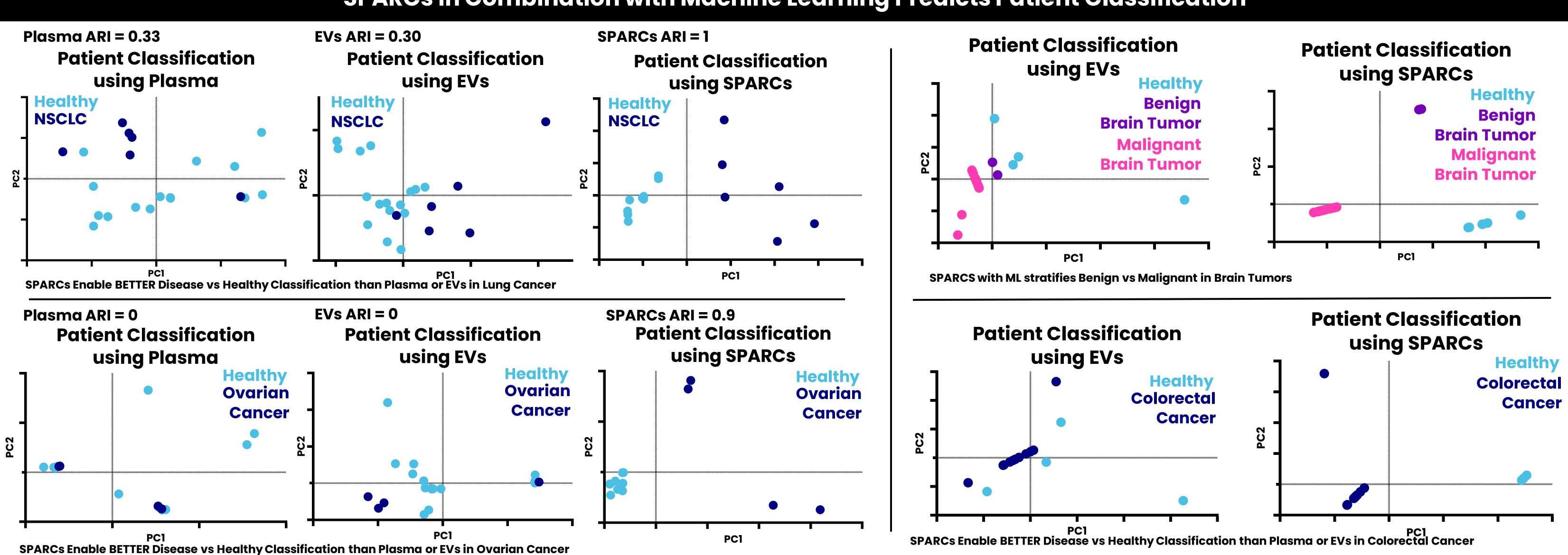
Extracellular Vesicles play a vital role in cell to cell signaling. EVs contain a wide variety of biomarkers and protect these biomarkers in a lipid bilayer

Extracellular Vesicles

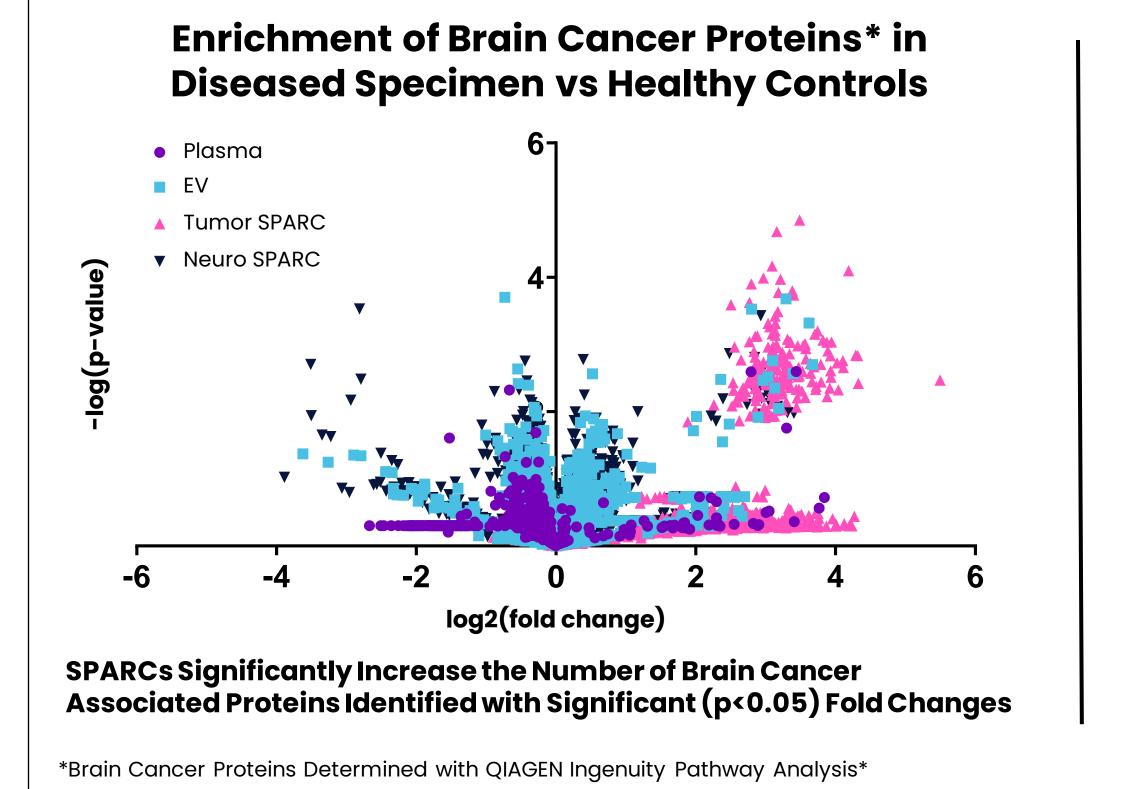




SPARCs in Combination with Machine Learning Predicts Patient Classification

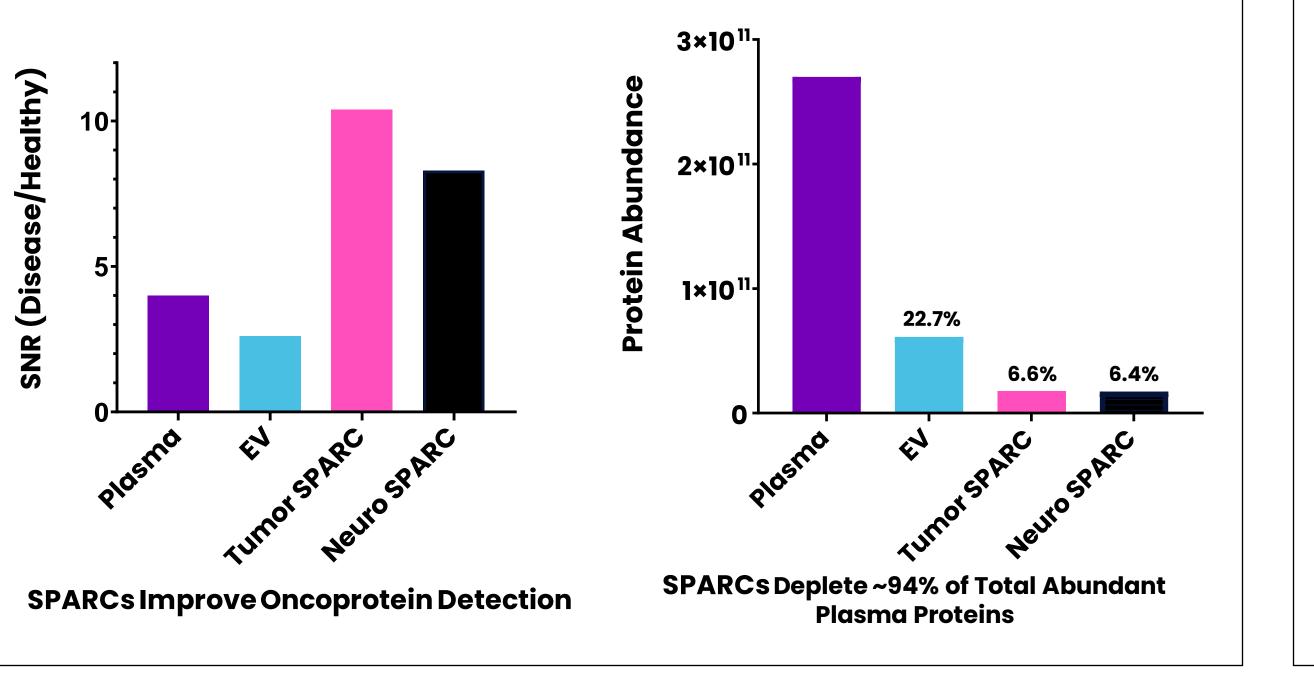


SPARCs Enrich for Markers of Disease

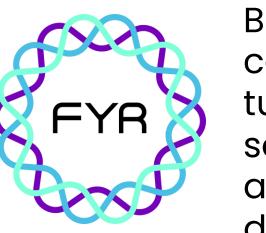


Signal to Noise Ratio of **Oncoproteins by Method**

Total Abundant Plasma Protein Contamination by Method



Conclusions



Blood plasma of cancer patients contains EVs derived directly from tumor tissue that serve as rich sources of insight into tumor biology and disease pathology. We have developed a clinically applicable,

multi-omic EV subpopulation interrogation pipeline that robustly profiles tumor derived EVs. Application of machine learning approaches to the omics data enables classification and distinction of cancer versus healthy patients.

Learn more at https://fyrdiagnostics.com/

Acknowledgements: Reference Medicine, Thermo Fisher Scientific



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