Quantum Si

ABOUT

Quantum-Si is transforming proteomics with a benchtop platform that brings single-molecule protein analysis to every lab, everywhere. The Company's platform enables real-time kinetic-based detection and allows researchers to move beyond traditional, multistep workflows and directly access dynamic, functional protein insights with unparalleled resolution. By making protein analysis simpler, faster, and more informative, Quantum-Si is accelerating proteomic discoveries to improve the way we live. Learn more at quantum-si.com or follow us on LinkedIn or X.

INDUSTRY TALK

Özge Canli Neumann – Commercial Business Development Manager

Quantum-Si Protein Sequencing: Unleashing the Power of Proteomics

Understanding the relationship between protein sequences and biological function is essential for advancing human health and disease research. While genomic and transcriptomic analyses provide valuable insights into genetic predispositions and gene expression, they fall short of capturing the dynamic changes at the protein level, which are essential for understanding cellular function, disease mechanisms, and therapeutic interventions. Quantum-Si protein sequencing on the Platinum® Pro addresses this critical gap by enabling direct interrogation of protein primary

structure, post-translational modifications (PTMs), and isoform diversity. In this presentation, we explore how Platinum is revolutionizing biological research by empowering scientists to sequence proteins directly in their own labs. Complementing this, the Platinum Barcoding Kit enables multiplexed pooled screens with direct protein-level readouts, facilitating both in vitro and in vivo screening across diverse drug delivery and cargo formulations. The Platinum Pro instrument is a compact and affordable benchtop device that enables direct sequencing of proteins with single-amino-acid resolution using a simple workflow. We demonstrate how researchers can incorporate proteomics into their workflows, unlocking deeper biological insights and accelerating advancements in disease understanding and therapeutic discovery.