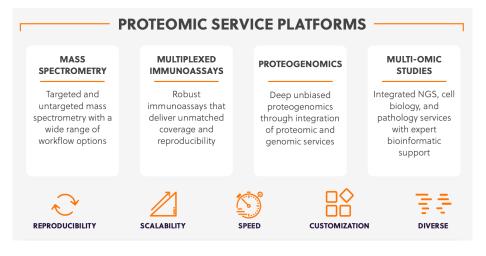
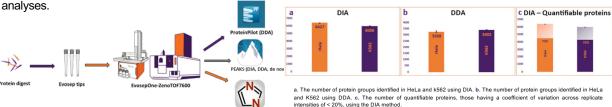


Unleashing the Power of Proteomics **Inside Discovery Life Sciences' Proteomics Services Lab**



Mass Spectrometry

LC-MS/MS provides capabilities for a wide range of services including phenotypic screening, proteomic profiling, biomarker detection and validation, protein-protein interaction studies, expression of peptide variants, and PTM

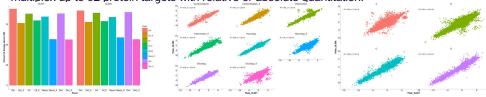


Phosphoproteomics analysis boosts understanding of disease state, cell signaling, and cellular response to exogenous therapeutics. DLS offers services for untargeted, global phosphoproteomics analysis as well as targeted analysis.

	500		0	
c. Th	ps identified in HeLa and k562 using DIA. a number of quantifiable proteins, those DIA method.			
		12000		
	Top 5 KEGG pathwavs identified from mouse brain	10000	-in	A
;	 ✓ Oxytocin signaling pathway ✓ Glutamatergic synapse 	8000		X
	 ✓ GABAergic synapse ✓ Dopaminergic synapse 	6000	10790	atocyte



quantitation.



up to 80 proteins.

Tight junction Insulin signaling pathv Spliceosome AMPK signaling pathway regions in the bar graph) onding proteins (dark shaded regi dentified in mouse brain and hepatocytes using Oneomics. **PRESERVE PRECIOUS SAMPLES THROUGH Untargeted Plasma Proteomics** Seer Proteograph[™] assays offer deep proteomic coverage from complex biological samples. The automated sample preparation utilizes engineered nanoparticles to reproducibly enrich lower abundance proteins by the formation of protein coronas. With focused validation on plasma proteomics, DLS has shown increased performance in complex biological samples. Whole Matched Dissociated Conditione Tissues Serum & Media Blood Plasma FFPE Tumor Cells · lostala: · Simulativ · demos 除聖皇最間間見 Seer Proteograph uses engineered nanoparticles Seer Proteograph Analysis Suite allows for the easy analysis of proteins within large cohorts, including common proteins, individual proteins within a sample looking at plasma from 5 co cancer. Each was analyzed separately on the Seer Proteograph assay and as a sool. An average of 2424 protein groups were detected, with 1974 common amount the complex. When groups detected is 10 4186/14250.017.1550.21 computer the complex. SCIEX ZenoTOF Olink® Explor own cancer pathways, such as PI3K/AKT signaling and kinase doma Alternative Matrices: The engineered nanoparticles can provide selective and specific enrichment from a variety of complex biological samples, including serum, urine, cerebrospinal fluid, and dried blood spots. DLS has shown a 10X improvement in identified protein groups from DBS (206 neat to 1220 with Seer ProteographTM.) CELL BIOLOGY GENOMIC SERVICES SERVICES Protein groups detected from DBS digested neat (A) and enriched using the Seer Proteograph (B.) Data modeled against HPPP (2021-07 build): Human Plasma Proteome \bigcirc Project. Deustch et al. J Proteome (2021.) shows the overlap of proteins y the Proteograph and in neat DBS his shows the power of the ph to perform deep proteomics on 1037 (83,4% 00 0

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• www.dls.com

🔲 info@dls.com

INTEGRATED MULTI-OMIC WORKFLOWS





MOLECULAR PATHOLOGY

SERVICES

, ISH, Histology, Digital







- Biomarker discovery and validation
- Mechanism of action studies
- Phenotypic screening
- Post-translational modification
- Protein complex analysis

Immunoassays

Olink® Proximity Extension Assay

Explore 3072 is a high-throughput protein biomarker discovery platform. The highly multiplexed assay measures ~3000 proteins with highly specific, dual-antibody recognition. Using only microliters of sample, this high throughput assay can power large-scale proteomics studies with relative



Target leverages the sensitivity of Explore for focused biomarker studies. These assays multiplex up to 92 protein targets with relative or absolute quantitation.

Olink Explore data acquired from two identical sample plates of 88 replicates of pooled plasma. Left. The percent of assays above the limit of detection (LOD) across all 88 samples ducibility of assays across plates separated by panel. Right. Rep ucibility of assays ac

Luminex[®] xMAP INTELLIFLEX[®] Systems Are targeted multiplexed panels for either protein or RNA.

ProcartaPlex assays are antibody-based magnetic-bead powered kits for absolute protein quantitation. Kits can be multiplexed to include



QuantiGene Plex assays are hybridization-based assays utilizing branched DNA technology, which uses signal amplification for the measurement of RNA transcripts.

Kits can be customized and multiplexed for multi-omic analysis of common samples.

Custom Service Requests

DLS can provide custom solutions for your analytical needs. This can include characterization, target degradation, PTM analysis, and method development.

Using genomics and transcriptomics data to augment proteomics, DLS offers a custom protein identification pipelines. In these studies, deep proteomics data are searched against custom databases, allowing variant proteins and peptides to be uncovered.

