Protein Characterisation

AXT

Target Identification & Validation

cloning & expression

assay development

Lead Identification

sequence analysis

activity analysis

Characterisation & Optimisation

biophysical

chemical

Safety & Preclinical

formulation

stability

Manufacturing & Regulatory

scale up

optimisation

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Protein Characterisation

mosquito
ttplabtech
Automated Liquid Handling
- High throughout nanolitre dispensing
- True positive displacement pipetting
- Genomics, crystallography, screening, assay development

UNcle
UNCHAINED LABS
Stability and Aggregation Analysis
- T_m & T_{agg}, isothermal stability, thermal recovery, B_{22} & k_D
- Sizing, polydispersity & viscosity
- 48 samples at a time, 9 µL of each

dragonfly
ttplabtech
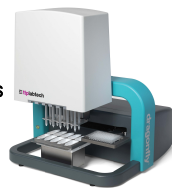### Automated Liquid Handling
- Reliable low volume, non-contact dispensing
- Rapid assay development, significant reagent & cost savings
- Broad dynamic range

Stunner
UNCHAINED LABS
Only system to combine size & concentration
- Concentration analysis
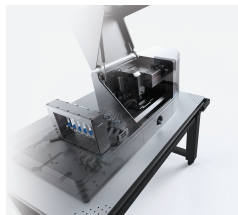- Hydrodynamic size
- Polydispersity & protein aggregation

Trap
LUMICKS — Capture Molecular Interactions
Dynamic Protein Interaction
- Optical tweezers
- DNA–RNA–protein interactions
- Protein folding and conformation

Lunatic
UNCHAINED LABS
Batch Quantification of Protein, DNA & RNA
- Measure multiple 2µL samples at any concentration
- Samples stable in chip for up to 2hrs
- Actual concentration of DNA/RNA without impurities
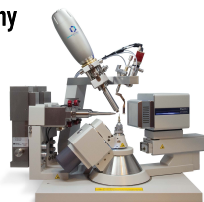
XtaLAB Synergy
Rigaku oxford diffraction
Structural Biology / Protein Crystallography
- 4 fold higher flux PhotonJet sources
- Dual Wavelength sources (Mo/Cu/Ag)
- Leading edge HPC Detectors

HUNKY
UNCHAINED LABS
Quantifying protein stability using ΔG
- $C_{½}$
- ΔG and ΔG_{trend}
- Agg Path

Big Kahuna
UNCHAINED LABS
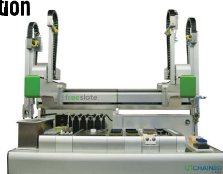### Cutomisable Automated Biologics Formulation
- Automated buffer exchange in microplates
- Characterise formulations with limited material
- Developability and stability screens

pUNk
UNCHAINED LABS
Protein Sizing Platform (DLS)
- Compact and fast
- Just 5µL sample (recoverable)
- Protein size, per cent aggregation & polydispersity

Legend
- 🔴 **Target Identification & Validation** | cloning & expression | assay development
- 🔵 **Lead Identification** | assay development | activity analysis
- 🔵 **Characterisation & Optimisation** | biophysical | chemical
- 🟢 **Safety & Preclinical** | formulation | stability
- 🟣 **Manufacturing & Regulatory** | scale up | optimisation

hoUNd
UNCHAINED LABS
Automatic Contaminant Detection & Identification
- Particle size, count and shape: Microscopy
- Particle identification: Raman spectroscopy and/or LIBS
- Fully configurable to your requirements

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