

The next generation in LC-MS proteomics data analysis software.

Discover the significantly changing proteins in your samples.

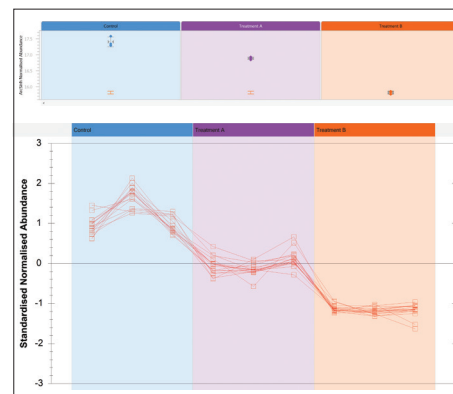
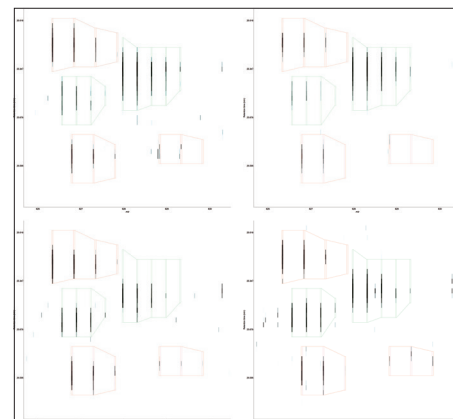
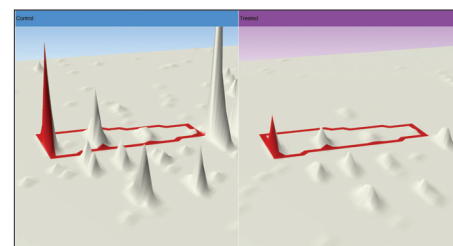
Progenesis® QI for proteomics enables you to quantify and identify proteins in your complex samples using the advantages of label-free analysis. With support for all common vendor data formats and a guided workflow, Progenesis QI software helps to overcome your data analysis challenges, enabling you to rapidly, objectively and reliably discover proteins of interest and export results for 'omics research applications.

Solving your analysis challenges

- Consistent peak picking across all runs, vital for accurate and precise quantification, using our unique approach to co-detection of peptide ions.
- No restrictions on the number of groups, samples or experimental designs you can compare within your analysis.
- Complete data matrix and no missing values, for reliable multivariate statistics.
- Query databases using common search engines to automatically combine identifications with peptide ion quantification data.
- Fully compatible with ion mobility to achieve three dimensions of resolution.
- Powerful data visualization and guided-workflow for DIA and DDA analyses as well as support for analysis of fractionated samples.

“...label free MS-based approach using Progenesis software overcomes many of the limitations of traditional proteomic methods, leading to the comparison of protein expression profiles between multiple complex mixtures, followed by a fast and effective identification of proteins of interest.”

DR. ALINE ZIMMER, DR. MAXIME LE MIGNON, DR. JULIEN BOULEY
 Stallergenes, Antony, France



Progenesis® QI
 for proteomics

PROGENESIS QI FOR PROTEOMICS – KEY STEPS IN LC-MS DATA ANALYSIS

Quantify

Raw data import and quality control

- LC-MS vendor independent, supports all major data formats plus mzXML and mzML
- Peak modelling and data reduction for fast analysis without affecting quantification
- Generate ion intensity maps of retention time (RT) vs. m/z vs. ion intensity to review raw data quality
- Automated reference run selection and RT alignment to increase objectivity
- Specific 2D-LC workflow to support analysis of fractionated samples
- Ion mobility separation adds a third dimension of resolution and increases peak capacity

Retention time alignment

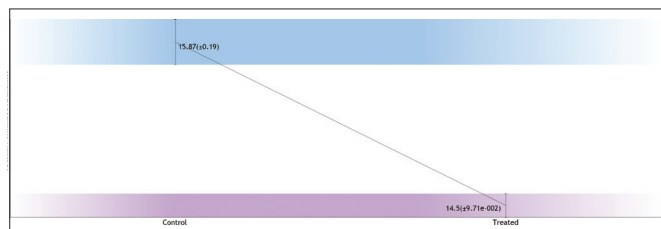
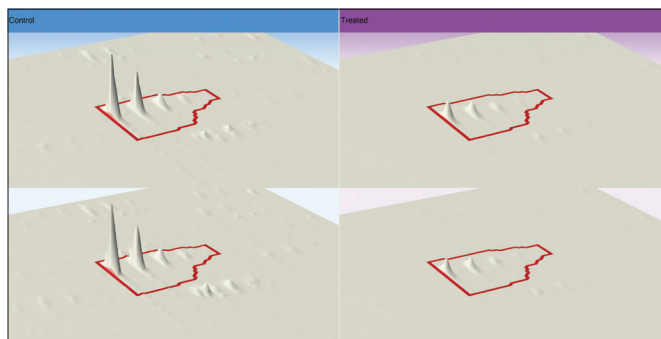
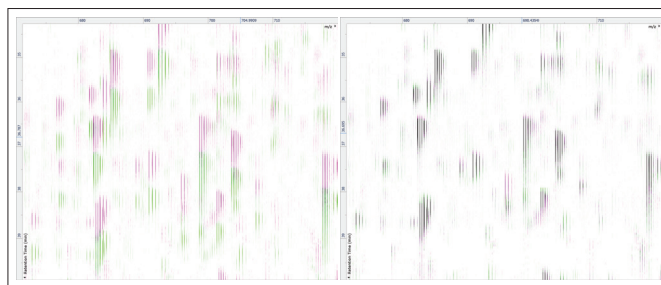
- Automatically correct for RT differences between runs and create an “aggregate run” containing every peptide to consistently detect and quantify features across all samples
- No missing values, no matter how many replicates you run
- Measure the quality of your alignment for confidence in your downstream results

Quantify peptides

- Ion abundance is measured from an isotope peak cluster detection applied consistently to every run
- Automatic normalization accounts for sample loading variation for direct comparison of up or down regulation between runs
- Quickly compare features across multiple groups within your experiment
- Visually evaluate ion mobility separated isobaric peptides
- Validate peptide quantification and expression with data tables linked to visual displays
- Simple but powerful Tagging feature to explore ions of interest in your results

“...minimize the fractions needed to achieve good peptidome coverage and so save instrument time and costs in achieving experimental goals.”

DR GEUN-CHEOL GIL, DR GABRIELA CHIRICA
Systems Biology Department, Sandia National Laboratories, Livermore, CA, USA



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