

Product Specification:

Progenesis™ Stats

Advanced Statistical Analysis Specifications

- Multivariate statistical analysis of selected features (spots, proteins or peptides) from Progenesis SameSpots, Progenesis LC-MS and Progenesis MALDI

Data Table

- Calculation and display of ANOVA p-values
- Calculation and display of q-values for indication of False Discovery Rate (FDR)
- Feature(s) shown in expression profile view
- Selected feature(s) highlighted on Principal Components Analysis (PCA) plot
- Selected feature(s) highlighted on Correlation Analysis dendrogram view
- Calculation and display of feature power
- Colour coding of data in table by cluster

Feature Tags

- Colour coded tags to assist with data exploration
- Right click on highlighted group of features to tag
- Add name label to spot tag
- Filter spot list by tags
- Tag editing
- Features can be tagged multiple times
- Feature tags maintained throughout the workflow

Image View*

- Display of whole image with selected features highlighted
- Colour coded display of features which cluster in the correlation analysis

*Currently only available for the analysis of 2D image analysis data from Progenesis SameSpots

Principal Components Analysis

- Calculate principal components based on all features
- Visualisation of samples and features score and as loading plots on PCA graph with samples and features highlighted for visual confirmation of clustering
- Colour coded display of features which cluster in the correlation analysis
- Selection of principal components to display on axis
- Zoom functionality

Correlation Analysis

- Correlation analysis and visualisation of feature expression
- Visualisation of clustered features showing correlation expression profiles
- Hierarchical clustering of features based on expression profile data and visualisation with an interactive dendrogram

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- Multiple selection of dendrogram nodes for expression profile comparison
- Multiple group selection on dendrogram by setting click and drag “pruning threshold” for expression profile comparison
- Zoom functionality

Power Analysis

- Post hoc, per feature power calculations
- Prediction of required replicates for 80% power per spot based on measured data