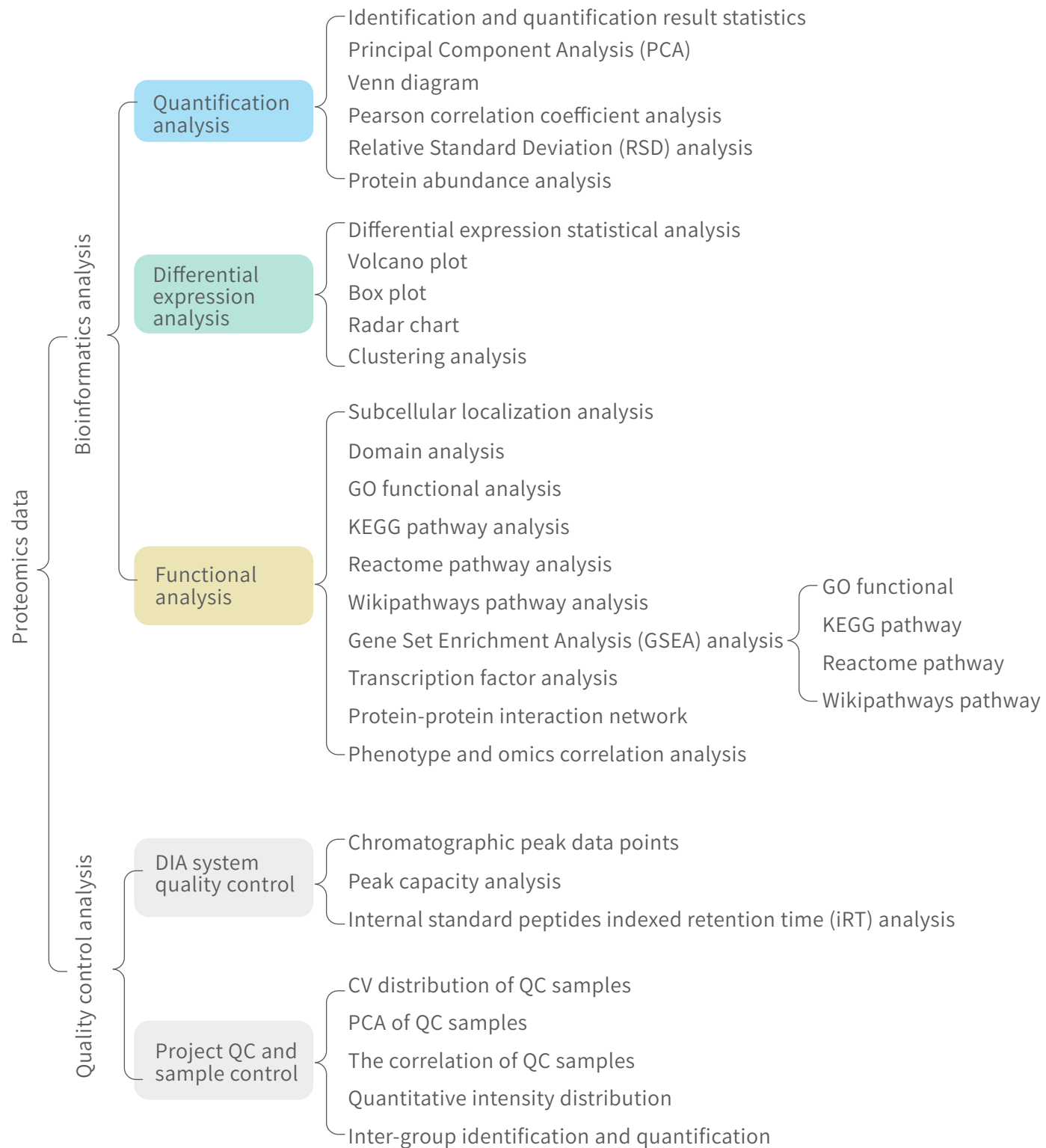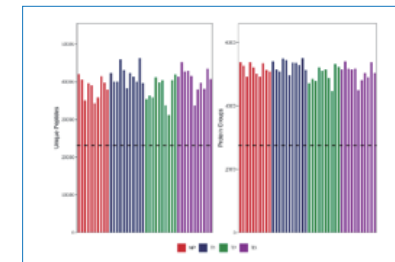# Bioinformatics Analysis

INOMIXO can provide a variety of bioinformatics analysis services for proteomics research, and we have the expertise, technology, and experience to customize the analysis as your research needs. If you have any questions or order, please feel free to contact **info@inomixo.com.**
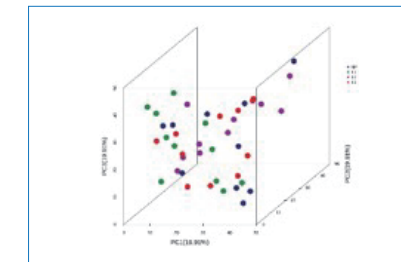
Proteomics data

Bioinformatics analysis

Quantification analysis
- Identification and quantification result statistics
- Principal Component Analysis (PCA)
- Venn diagram
- Pearson correlation coefficient analysis
- Relative Standard Deviation (RSD) analysis
- Protein abundance analysis

Differential expression analysis
- Differential expression statistical analysis
- Volcano plot
- Box plot
- Radar chart
- Clustering analysis

Functional analysis
- Subcellular localization analysis
- Domain analysis
- GO functional analysis
- KEGG pathway analysis
- Reactome pathway analysis
- Wikipathways pathway analysis
- Gene Set Enrichment Analysis (GSEA) analysis
  - GO functional
  - KEGG pathway
  - Reactome pathway
  - Wikipathways pathway
- Transcription factor analysis
- Protein-protein interaction network
- Phenotype and omics correlation analysis

Quality control analysis

DIA system quality control
- Chromatographic peak data points
- Peak capacity analysis
- Internal standard peptides indexed retention time (iRT) analysis

Project QC and sample control
- CV distribution of QC samples
- PCA of QC samples
- The correlation of QC samples
- Quantitative intensity distribution
- Inter-group identification and quantification

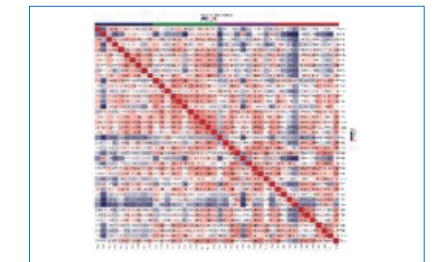# Analysis Content Display

Protein identification and quantitation analysis

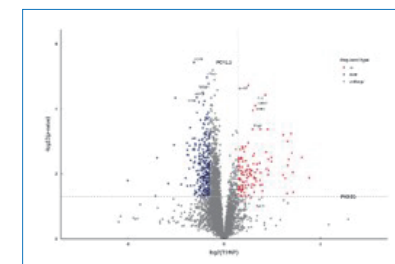Protein and peptides identification Column chart
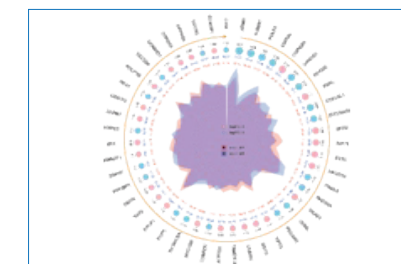

Principal Component Analysis 3D-PCA

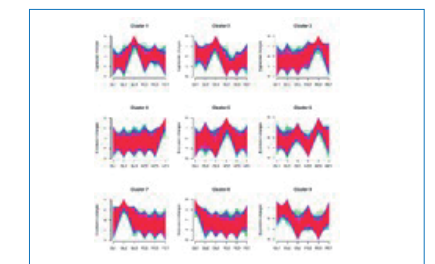Pearson's Correlation Coefficient，PCC

Differential protein expression analysis
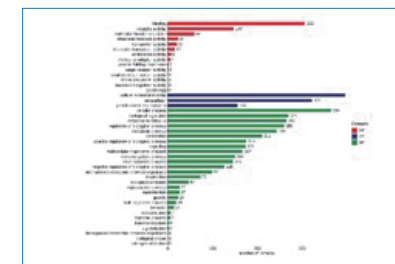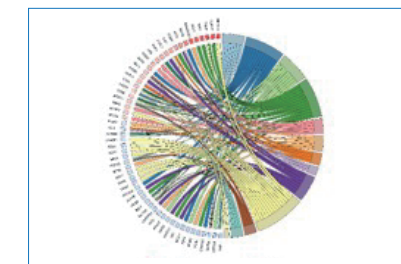

Volcano plot
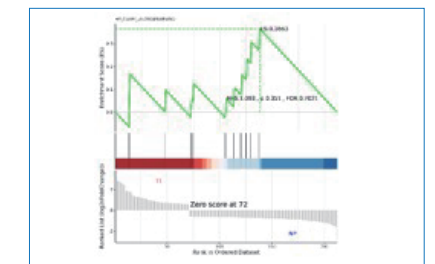

Radar chart

Clustering chart

Protein functional analysis

GO annotaion

KEGG enrichment Chord diagram

GESA
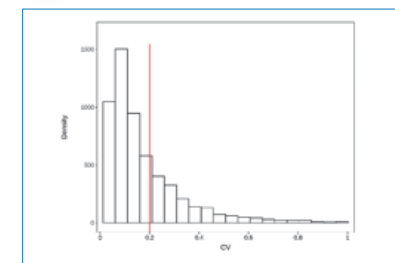
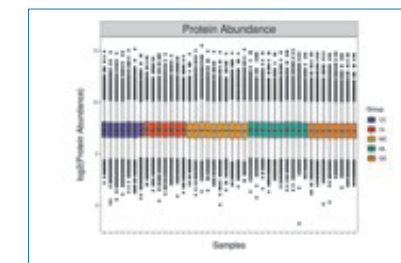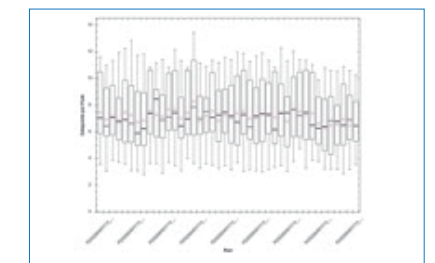## Quality control analysis

CV value

Quantitative Box plot

DIA system analysis