

Quantitative Proteomics



Spectral Counting



Metabolic Labeling



Isobaric Tags



Data Strategies

Label-Free Quantification

- Spectral counting
- Peak intensity measurement
- No labeling required

SILAC Labeling

- Metabolic incorporation
- Heavy amino acids (^{13}C , ^{15}N)
- Cell culture applications

TMT/iTRAQ Tags

- Isobaric mass tags
- Multiplexing 6-16 samples
- Reporter ion quantification

DIA vs DDA

- DIA: all ions fragmented
- DDA: targeted selection
- Trade-offs in coverage and reproducibility