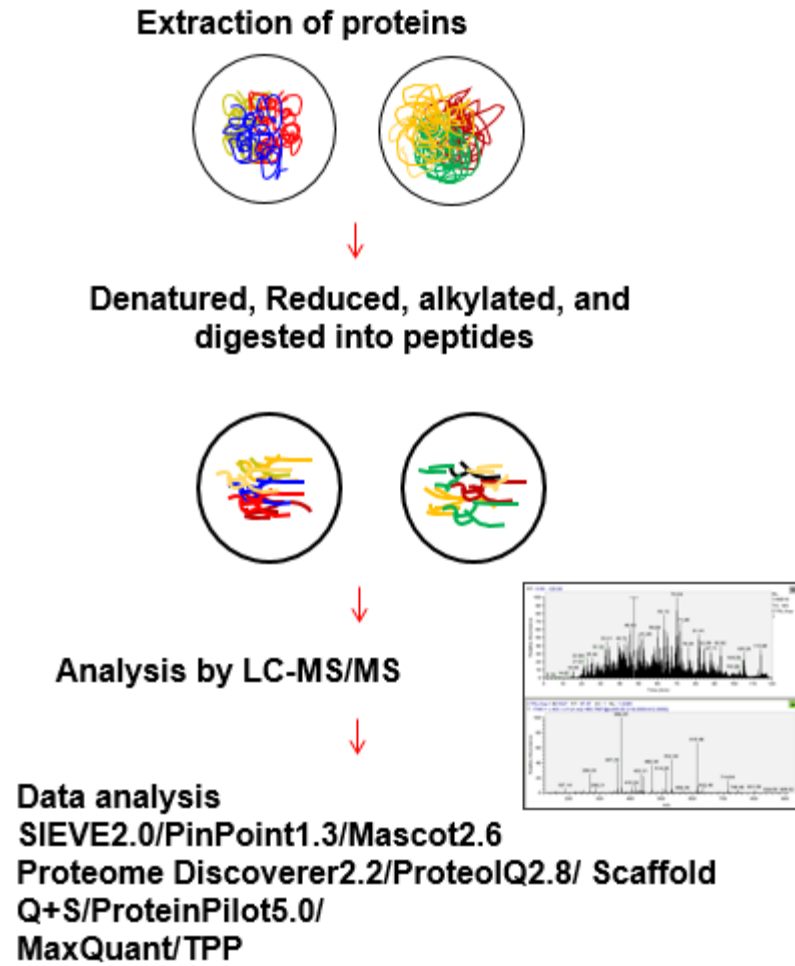


Label-Free Shotgun Proteomics



Recently, many studies have provided a relationship between protein abundance and sampling statistics based on sequence coverage, peptide count, and spectral count using label-free liquid chromatography–tandem mass spectrometry (LC–MS/MS) shotgun proteomics. The use of sampling statistics offers a promising method of measuring relative protein abundance and detecting differentially expressed or co-expressed proteins. Finally, this method supports robust quantification of relative protein abundance and for sensitive detection of biologically significant differential protein expression under multiple experimental conditions.