

Development and application of mass spectrometry-based metabolomics methods for disease biomarker identification

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Mass spectrometry is a powerful tool for discovering novel disease biomarkers and biologically active compounds from complex mixtures such as natural product extracts. Here, we provide examples of the development and use of mass spectrometry-based approaches (i.e., proteomics, glycomics, lipidomics, peptidomics) to elucidate protein-glycan interactions, endogenous lipids regulating adipogenesis, and proteolytic pathway of bioactive peptides.