



Drug Metabolism Analysis using Liquid Chromatography-Mass Spectrometry

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Case study 1: Proteomic analysis of disease biomarkers using mass spectrometry

Background: A study was conducted to identify potential biomarkers for a specific disease. The researchers used mass spectrometry to analyze the proteome of the disease-affected individuals. The goal was to identify proteins that were differentially expressed compared to healthy controls.

Challenge: The complexity of the proteome and the high dynamic range of protein abundance made it difficult to identify all relevant biomarkers. The researchers faced challenges in data analysis and interpretation.

Solution: The researchers employed advanced mass spectrometry techniques and bioinformatics tools to analyze the data. They identified several potential biomarkers that were significantly differentially expressed.

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Received: 01-Aug-2023, Manuscript No: jabt-23-110986, **Editor assigned:** 03-Aug-2023, Pre QC No: jabt-23-110986 (PQ), **Reviewed:** 17-Aug-2023, QC No: jabt-23-110986, **Revised:** 21-Aug-2023, Manuscript No: jabt-23-110986(R), **Published:** 28-Aug-2023, DOI: 10.4172/2155-9872.1000556

Citation: Michael T (2023) Drug Metabolism Analysis using Liquid Chromatography-Mass Spectrometry (LC-MS). J Anal Bioanal Tech 14: 556.

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