

QTOF Metabolomics

Metabolomics is a comprehensive study of huge array of smaller molecules commonly called metabolites in biological samples. Metabolomics was originally proposed as a method of functional genomics but its utility extends well beyond assessments of changes in metabolite level. Metabolomics is for understanding genetic manipulation, comparing different growth stages, toxicity, drug discovery, nutrition, cancer, diabetes and natural product discovery. There are numerous analyses at different abundance levels and their investigations in analytical chemistry no mass spectrometry. Metabolite profiling whether targeting specific metabolite classes or untargeted can also be applied as a tool similar to fingerprinting for its uniqueness resulting in thousands of datasets. It uses a limited number of concentrations of known metabolites. Metabolites profiling is used in measurement of the level of the metabolites set in the sample on biological fluids as a diagnostics.

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