



# **Metabolomics: Concepts and applications to drug development**

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Metabolic Profiling – also named as metabolomics or metabonomics – is an emerging key technology in life science research.

It comprises a range of advanced analytical methods and statistical data processing tools to simultaneously measure and quantify the repertoire of endogenous metabolites (metabolome) and xenobiotics in cells, tissue and body-fluids.

Especially NMR and LC/MS profiling approaches have been used in biomedicine to discover differences between disease/control and treatment groups. Observed changes reflect 'actual' biological events in the network of metabolic pathways, which can be exploited to identify potential single or combination bio-markers for disease diagnosis and monitoring of treatment efficacy or toxicity.

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