

# Metabolomics

A metabolome is the set of all metabolites (low molecular weight compounds) present in a biological sample. This set is a product of the genome of the organism, the expression of that genome and the operation of the metabolism is a particular part of the organism in a particular environment (possibly including incorporation of exogenous compounds).

Metabolomics involves the systematic estimation of metabolomes from a range of organisms, followed by statistical analyses and other investigations of that large quantity of data.

This estimation involves a range of analytical techniques including GC-MS, LC-MS, NMR, FT-IR etc.

The high levels of variability in the metabolome and the need to undertake sophisticated analysis of the data based on meaningful comparisons mean that relatively large amounts of metadata must be stored with the basic results of metabolome estimation.

The leading specialist journal in the field is [Metabolomics](#)

