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## Advances in Metabolic Profiling of Biological Samples

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Deadline for manuscript  
submissions:

**closed (31 December 2022)**

### Message from the Guest Editor

Dear Colleagues,

Metabolomics has been a powerful approach for studying the low-molecular weight metabolites and their interactions within a biological system in a wide range of research fields (e.g., clinical and biomedical research, toxicology, microbiology, nutrition, environment). The biological samples analysed include blood serum/plasma, urine, tissues, cells, saliva, cerebrospinal fluid, and feces, among others. Due to the chemical diversity and concentration range of all metabolites present in biological samples, there are still several challenges from sample collection to metabolite annotation that need to be addressed. This Special Issue of *Metabolites* is dedicated to reviews and original articles covering the current methodological and technological advancements on the pre-analytical handling of biological samples, sample preparation protocols, analytical approaches for untargeted and targeted metabolic profiling, data quality assessment in large-scale metabolomics studies, and data processing and metabolite annotation tools.



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# Special Issue



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## Editor-in-Chief

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## Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

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