

Special Issue

Advances in Metabolomics in Health and Disease

Message from the Guest Editor

Metabolomics represents an emerging area of research, as a comprehensive technology that focuses on small molecules involved in different metabolic pathways of living organisms, from microorganisms, to plants, animals and humans. It reflects an organism's phenotype through a global comprehensive analysis of metabolite profiles (untargeted metabolic state of a biological system, e.g., tissue, blood, urine, saliva, cell cultures) or quantification of specific metabolites, as part of the metabolome. It addresses the interconnections with genomics, proteomics and epigenetics, including microbiome and environmental factors. Metabolomics takes advantage of high-throughput techniques (mass spectrometry or nuclear magnetic resonance coupled or not with high-performance liquid or gas chromatography) for the screening of numerous molecules. These may unravel the specific physiological and pathological mechanisms related to the systems biology approach and personalized medicine. It offers possibilities to find biomarkers of diagnosis, which are critical for precision health approaches and improved diagnostics, with an impact on clinical decisions.

Guest Editor

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Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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