Special Issue

Recent Analytical Technologies and Applications in Metabolomics

Message from the Guest Editor

Metabolomics is devoted to the systematic study of all small molecule metabolites in biological samples derived from different sources. Given NMR and MS have respective strengths and weaknesses, they are often also combined in metabolome analysis for their mutually complimentary benefits in both analyzing and identifying small molecule metabolites. In recent years, the advance of analytical technologies in metabolomics has enabled the discovery of more and more biomarkers in various diseases, making the early detection of diseases and designing personalized treatments a reality. As an emerging research technique, metabolomics still faces the tremendous challenges of methods and applications. This Special Issue will welcome original research and review articles covering sample preparation (sample extraction, metabolite pretreatment and separation), instrumental analysis (new techniques in NMR, LC-MS, GC-MS, and MS imaging), data analysis (data preprocessing, data extraction, quantitative analysis, pattern recognition, and multi-omics integrated analysis), metabolic pathway analysis, and various applications in different fields.

Guest Editor

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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