Special Issue

Chemical Analytics for the Discovery and Structural Elucidation of Bioactive Natural Products from Biodiversity

Message from the Guest Editor

Exploring the vast molecular diversity found in nature requires the integration of advanced analytical and molecular tools. Together with mass spectrometry equipment and techniques—such as high-resolution tandem mass spectrometry (MS/MS), direct analysis in real time (DART), and imaging spectrometry—which have revolutionized the exploration and analysis of chemodiversity in metabolome studies, these new analytical tools enable scientists to rapidly generate molecular "fingerprints" for countless unknown molecules, even in highly diverse ecosystems. This Special Issue aims to discover and elucidate the structures of bioactive natural products from diverse biodiversity. This involves using modern analytical techniques like chromatography and various spectroscopic methods to separate, identify, and characterize compounds from natural products.

Guest Editor

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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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