

Special Issue

Advancement in Phytochemistry and Pharmacology of Medicinal Plants

Message from the Guest Editors

The study of medicinal plants remains a vital area of interdisciplinary research, bridging phytochemistry, pharmacology, ethnobotany, and biotechnology. This Special Issue aims to showcase the latest progress in the phytochemical and pharmacological investigation of medicinal plants, including in vivo and in vitro ethnopharmacological studies, bioprospecting, and the standardization of herbal formulations. We welcome original research and reviews that address green chemistry and sustainable chemical processes, advanced chromatographic methods such as high-performance thin-layer chromatography (HPTLC), and novel pharmaceutical biotechnology approaches. Particular attention will be given to the ethical application of artificial intelligence in natural product research and the development of new therapeutic platforms based on bioactive compounds. By highlighting promising chemical–biological studies and fostering collaboration among global research groups, this issue seeks to contribute to the scientific validation, innovation, and responsible integration of phytomedicine into modern healthcare.

Guest Editors

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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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