Special Issue

Medicinal Natural Products and Their Anti-Inflammatory Properties

Message from the Guest Editor

Natural products derived from plants, fungi, marine organisms, and microorganisms have historically served as crucial sources of therapeutic agents. Among their many biological effects, the anti-inflammatory properties of these compounds have drawn significant scientific interest due to their potential in managing both acute and chronic inflammatory conditions with fewer side effects compared to synthetic drugs. We welcome submissions that explore traditional medicinal plants, novel extraction and formulation techniques, bioassay-guided fractionation and in vitro and in vivo anti-inflammatory models, as well as studies on molecular targets such as NF-□B, COX-2, cytokines, and oxidative stress pathways. Studies integrating omics technologies, computational modeling, and structure–activity relationships (SAR) are also highly encouraged. By bringing together cutting-edge contributions from pharmacognosy, medicinal chemistry, pharmacology, and ethnopharmacology, this Special Issue aims to advance our understanding of how bioactive natural products can be harnessed for the development of safe and effective anti-inflammatory therapeutics.

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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