

Special Issue

Biological Evaluation of Plant Extracts

Message from the Guest Editor

Medicinal plants have been traditionally used for centuries in the treatment of various diseases, and modern scientific approaches aim to validate and expand this knowledge through rigorous experimental methods. Biological evaluation involves a wide range of in vitro and in vivo assays designed to assess pharmacological activities, such as antimicrobial, anti-inflammatory, antioxidant, cytotoxic, and immunomodulatory effects. These studies also encompass toxicity screening to ensure safety and identify potential side effects. The efficacy of plant extracts is largely influenced by their phytochemical composition, which includes alkaloids, flavonoids, terpenoids, phenolic compounds, and other bioactive constituents. The standardization of extract preparation, accurate quantification of active compounds, and reproducible testing models are essential for generating reliable data.

Guest Editor

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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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