



Natural Products: From Isolation and Identification to Biological Activity

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Message from the Guest Editor

Natural products represent a major source of new chemical entities with potential applications for drug discovery (especially as anticancer and anti-infective agents). The discovery of new bioactive natural products as leads for therapeutic development can be inspired by ethnobotanical knowledge or achieved by screening a collection of extracts for bioactivity using *in vitro*, *in cellulo*, and even *in vivo* assays.

The biological activity and structural diversity of the bioactive compounds are unsurpassed by any available synthetic screening libraries. As such, these privileged scaffolds serve as important biologically prevalidated platforms for the design of compound libraries in the search for new drug candidates with diverse indications for human health.

This Special Issue may include full articles and reviews focused on new extraction procedures; the isolation and characterization of biologically active compounds from a wide range of natural sources; as well as *in vitro* and *in vivo* studies of the biological properties of extracts, fractions, and isolated compounds which could potentially be explored for the development of pharmaceuticals, cosmeceuticals, and nutraceuticals.





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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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