



Research Progress and Application of Natural Compounds—2nd Edition

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Message from the Guest Editors

Dear Colleagues,

Natural compounds play a crucial role in modern integrative medicine. A natural compound or natural product is a chemical compound or substance produced by a living organism and is thus found in nature.

Within medicinal chemistry, the field is often further restricted to secondary metabolites. Some secondary metabolites are cytotoxic and have been selected and optimized via evolution as "chemical warfare" agents against prey, predators, and competing organisms.

Furthermore, natural product molecules can be conjugated or coated with nanostructures and other organic molecules to enhance their bioactivity or ADME properties. Natural small-molecule compounds with anticancer activity, self-assembly, and co-assembly functions could be utilized as novel drug delivery systems in the biomedical field.

This Special Issue aims to compile research on bioactive natural compounds such as flavonoids and secondary metabolites like phenazine, polyketides, ribosomal peptides, non-ribosomal peptides, glucosides, as well as many others with medical applications. In addition, papers addressing the use of novel nanostructures in conjunction with natural compounds are welcome.





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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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