

Special Issue

Bioactive Ingredients from Natural Products: From Therapy to Nutrition

Message from the Guest Editors

Bioactive ingredients in natural products have emerged as key food components related to healthy status and disease prevention via various pathways, such as endoplasmic reticulum stress, epigenetic modification, and because of their influence on energy intake, while reducing pro-inflammatory state, oxidative stress, and metabolic disorders. This Special Issue aims to cover aspects including: improving methods and strategies for a sustainable search for bioactive ingredients in natural resources; developing sensitive and selective analytical methods for the determination, isolation, purification and characterization of the bioactive ingredients from natural resources; *in vitro*, *in vivo* and *in silico* bioassays models to quantitated bioavailability of bioactive ingredients from natural products, and to estimate how such biological ingredients can modulate metabolic processes and produce potential beneficial health effects on humans and animals; and sustainable solutions for improvement of quality of life focused on personalized nutrition, including protocols to enhance biostability, bioavailability, and bioaccessibility of bioactive ingredients in the design of food systems.

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th 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 all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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