Special Issue

Biomanufacturing of Natural Bioactive Compounds

Message from the Guest Editor

Natural bioactive compounds are natural products with pharmacological activity produced by animal, plants, and microorganisms, such as podophyllotoxin, commonly secondary metabolic products with complex structures and low vields, which make it difficult to obtain them as well as synthesize them chemically. Biosynthesis, with the use enzymatic reactions, shows prominent advantage in the synthesis of natural bioactive products. Using cell factory or engineering enzyme to synthesize and catalyze the production of highly active natural products has broad prospects. The cellular uptake of special substrates, biosynthesis using enzymatic reactions with cloned gene (clusters) to improve yields or activity, and improved final products extraction methods are widely studied by many groups. This Special Issue aims to provide a broad overview of the biosynthesis of natural bioactive compounds. Original research articles or reviews are welcome.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2025)



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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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