



Biomanufacturing of Natural Bioactive Compounds

Guest Editor:

Dr. Honglei Liu

State Key Laboratory of Microbial
Technology, Shandong
University, Qingdao 266237,
China

Deadline for manuscript
submissions:

closed (30 May 2024)

Message from the Guest Editor

Dear Colleagues,

Natural bioactive compounds are natural products with pharmacological activity produced by animal, plants, and microorganisms, such as podophyllotoxin, paclitaxel, and (-)- β -elemene. These compounds are commonly secondary metabolic products with complex structures and low yields, 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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical
Biology and Phytochemistry,
University of Münster,
Corrensstrasse 48, D-48149
Münster, Germany

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.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Reaxys](#), [CaPlus / SciFinder](#), [MarinLit](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Chemistry, Multidisciplinary*) / CiteScore - Q1 (*Chemistry (miscellaneous)*)

Contact Us

Molecules Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/molecules
molecules@mdpi.com
[X@Molecules_MDPI](https://twitter.com/Molecules_MDPI)