

Special Issue

Synthesis of Natural Products Using Engineered Plants and Microorganisms

Message from the Guest Editors

Plants and microorganisms, especially medicinal herbs, harbor diverse natural products. Among them, many are bioactive molecules, which have potential pharmaceutical or health applications. However, the compositions of these bioactive molecules in plants or microorganisms are usually low. The development of omics technologies and synthetic biology provide opportunities to produce bioactive molecules using metabolically engineered plants or microorganisms. Artemisinin, rare ginsenosides, and several other natural products have been produced on a large-scale. To further apply natural products, using cutting-edge synthetic biology and engineering biology technologies in plants and microorganisms is of great interest.

Guest Editors

Dr. Yongjun Wei
Prof. Dr. Lingbo Qu
Prof. Dr. Xiao-Jun Ji

Deadline for manuscript submissions

closed (31 July 2024)



Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



mdpi.com/si/13775

Molecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

[mdpi.com/journal/
molecules](https://mdpi.com/journal/molecules)





Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



[mdpi.com/journal/
molecules](https://mdpi.com/journal/molecules)



About the Journal

Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th 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.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Reaxys, CaPlus / SciFinder, MarInLit, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).