



Synthesis, Characterization, and Biological Evaluation of Alkaloids

Guest Editor:

Dr. Yucheng Zhao

Department of Resources
Science of Traditional Chinese
Medicines, School of Traditional
Chinese Pharmacy, China
Pharmaceutical University,
Nanjing 211198, China

Deadline for manuscript
submissions:

closed (30 September 2025)

Message from the Guest Editor

Dear Colleagues,

Alkaloids are low-molecular-weight, nitrogen-containing compounds that are found in approximately 20% of plant species. They play a crucial role in medicine due to their significant biological activities. This research topic is dedicated to publishing original research articles and review articles that explore the application of omics approaches in studying the biosynthesis of important alkaloids derived from plants. Additionally, we welcome submissions on the structural biology and catalytic mechanisms of biosynthesis enzymes involved in alkaloid production. Contributions that involve the effective identification of molecules with novel structural features, isolation and characterization of trace amounts of natural products, derivatization of natural product analogs to investigate structure–activity relationships, and industrial total synthesis of complex active natural products through synthetic biology are encouraged.





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 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.

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

Contact Us

Molecules Editorial Office
MDPI, Grosspeteranlage 5
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)