

## Special Issue

# Synthesis, Characterization, and Biological Evaluation of Alkaloids

### Message from the Guest Editor

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.

### Guest Editor

Dr. Yucheng Zhao

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### Deadline for manuscript submissions

closed (30 September 2025)



## Molecules

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## About the Journal

### 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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### Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

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