

## Special Issue

# Natural Products: From Isolation and Identification to Biological Activity

### Message from the Guest Editor

Natural products represent a major source of new chemical entities with potential applications for drug discovery (especially as anticancer and anti-infective agents). The discovery of new bioactive natural products as leads for therapeutic development can be inspired by ethnobotanical knowledge or achieved by screening a collection of extracts for bioactivity using in vitro, in cellulo, and even in vivo assays.

The biological activity and structural diversity of the bioactive compounds are unsurpassed by any available synthetic screening libraries. As such, these privileged scaffolds serve as important biologically prevalidated platforms for the design of compound libraries in the search for new drug candidates with diverse indications for human health.

This Special Issue may include full articles and reviews focused on new extraction procedures; the isolation and characterization of biologically active compounds from a wide range of natural sources; as well as in vitro and in vivo studies of the biological properties of extracts, fractions, and isolated compounds which could potentially be explored for the development of pharmaceuticals, cosmeceuticals, and nutraceuticals.

---

### Guest Editor

Dr. Natalizia Miceli

Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali, University of Messina, Messina, Italy

---

### Deadline for manuscript submissions

closed (31 December 2020)



## Molecules

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.6  
CiteScore 8.6  
Indexed in PubMed



[mdpi.com/si/36347](https://mdpi.com/si/36347)

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

---

### 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 16.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).