Special Issue

Advances in Extraction, Biological Activity of Natural Products and Their Derivatives

Message from the Guest Editors

Understanding the biological activity of natural compounds and their derivatives is essential for their application in various fields, including medicine, agriculture, and cosmetics. Recent studies have highlighted the potential of natural products to exhibit antimicrobial, anti-inflammatory, antioxidant, antiviral, and anticancer properties, making them promising candidates for drug development.

This Special Issue invites contributions that delve into the latest advancements in extraction methodologies, the assessment of biological activities, and the potential applications of natural products and their derivatives. We encourage researchers to share their insights on innovative extraction techniques, novel bioactive compounds, their mechanisms of action, and their absolute configuration assignment. By fostering collaboration and knowledge exchange, we aim to advance the field of natural product research and highlight the significance of these compounds in addressing contemporary health and environmental challenges.

Guest Editors

Dr. Ernesto Santoro

Department of Applied and Basic Science, Università degli Studi della Basilicata, 85100 Potenza, PZ, Italy

Prof. Dr. Antonio Evidente

Institute of Biomolecular Chemistry, National Research Council, Via Campi Flegrei 34, 80078 Pozzuoli, Italy

Deadline for manuscript submissions

31 December 2025



Molecules

an Open Access Journal by MDPI

Impact Factor 4.6 CiteScore 8.6 Indexed in PubMed



mdpi.com/si/222330

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

mdpi.com/journal/molecules





Molecules

an Open Access Journal by MDPI

Impact Factor 4.6 CiteScore 8.6 Indexed in PubMed



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).

