Special Issue

Trends of Drug Synthesis in Medicinal Chemistry

Message from the Guest Editor

This Special Issue highlights cutting-edge advances in synthetic methodologies across anticancer, antimicrobial, antiviral, anti-inflammatory, cardiovascular, and endocrine therapeutics. With the rise of targeted drug design, green chemistry, and AI platforms redefine oncology treatment, novel small-molecule protease inhibitors combat drug-resistant pathogens, and continuous-flow systems enhance scalable production. We invite contributions exploring catalytic asymmetric synthesis, bioorthogonal chemistry, and computational modeling applications, emphasizing their roles in improving drug efficacy, sustainability, and clinical translation. This collection aims to bridge interdisciplinary insights from organic chemistry, pharmacology, and engineering, fostering discussions on next-generation synthesis paradigms for global health challenges.

Guest Editor

Dr. Cheng-Hua Jin

1. College of Pharmacy, Yanbian University, Yanji 133002, China
2. Key Laboratory of Natural Medicines of the Changbai Mountain, Ministry of Education, Yanbian University, Yanji 133002, China

Deadline for manuscript submissions

30 September 2025

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/235635

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

mdpi.com/journal/molecules

MDPI

About the Journal

Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all 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).