Special Issue

New Aspects of Pharmacology and Toxicology of Antibacterial Drugs

Message from the Guest Editor

Antibacterial drugs have been widely used for infection therapy worldwide, and they play an important role in human and animal health. Many antibiotics have been widely used in clinical practice, and the primary mechanisms of action have been well established. However, more recent studies have indicated that many antibacterial drugs exhibit secondary killing mechanisms. Additionally, prolonged antibiotic treatment may lead to detrimental side effects in patients yet the mechanisms underlying the effects of antibiotics in mammalian systems remain unclear. Investigations on the new aspects of pharmacology and toxicology of antibacterial drugs, including new targets, new pathways, or new death mode, are very important in the development of attenuation strategies, combination therapy, and development of derivatives of these current clinical available antibacterial drugs. This Special Issue aims to collect all new research aspects of pharmacology and toxicology of antibacterial drugs, including new targets, new pathways, new death mode, new combination therapy based on reduced toxicity or enhanced antibacterial effect, metabolic modulation, and so on.

Guest Editor

Prof. Dr. Chongshan Dai

Department of Veterinary Pharmacology and Toxicology, College of Veterinary Medicine, China Agricultural University, No. 2 Yuanmingyuan West Road, Beijing 100193, China

Deadline for manuscript submissions

closed (31 March 2023)

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/105485

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).