





an Open Access Journal by MDPI

The Medicinal Chemistry of Antibiotics

Guest Editor:

Prof. Dr. Michio Kurosu

Department of Pharmaceutical Sciences, College of Pharmacy, University of Tennessee Health Science Center, 881 Madison Avenue, Memphis, TN 38163, USA

Deadline for manuscript submissions:

closed (30 April 2020)

Message from the Guest Editor

Dear Colleagues,

Since the introduction of antibiotics and vaccines, millions of lives have been saved and life expectancy has rapidly increased. Despite the increase in antimicrobial resistance, the development of new antimicrobial agents is declining due in large part to the fact that research and development (R&D) in large pharmaceutical industries have leaned towards drug development for the leading chronic diseases in the last few decades.

Under the current research environment, antibacterial drug discovery has advanced to innovative translational sciences including target-oriented drug discovery, new organic syntheses, drug delivery approaches, and analytical and assay methods.

The aim of this Special Issue is to highlight the recent advances in antibacterial drug discovery. This Special Issue may include original research articles and reviews on drug targets, medicinal chemistry (structure–activity relationships), new chemical entities, natural products, novel assays, phage therapy, vaccines, computational chemistry, new formulations, drug delivery, pharmacokinetic and dynamic aspects, and new strategies to use approved drugs.

Prof. Dr. Michio Kurosu Guest Editor













an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Reaxys, CaPlus / SciFinder, MarinLit, AGRIS, and other databases.

Journal Rank: JCR - Q2 (Chemistry, Multidisciplinary) / CiteScore - Q1 (Chemistry (miscellaneous))

Contact Us