



Multi-Drug Resistant Bacteria—A Global Problem

Guest Editors:

Prof. Dr. Agnieszka E. Laudy

Department of Pharmaceutical Microbiology, Medical University of Warsaw, Center for Preclinical Research and Technology, Banacha 1 b Str., 02-097 Warsaw, Poland.

Prof. Dr. Stefan Tyski

1. Department of Pharmaceutical Microbiology, Medical University of Warsaw, Center for Preclinical Research and Technology, Banacha 1 b Str., 02-097 Warsaw, Poland

2. Department of Antibiotics and Microbiology, National Drug Institute, Chelmska 30/34 Str., 00-725 Warsaw, Poland

Deadline for manuscript submissions:

closed (31 March 2021)

Message from the Guest Editors

Dear Colleagues,

The growing number of isolated multi-drug resistant clinical and environmental bacterial strains and the ability to produce and transmit resistance mechanisms to antibiotics and antibacterial chemotherapeutics have become an increasing problem in combating worldwide infections in recent years. One of the main elements in fighting the problem of microbial resistance is an in-depth understanding of the underlying resistance mechanisms. In this Special Issue, we plan to collect original research articles and review articles concerning the molecular basis of resistance mechanisms against antimicrobial agents (e.g., antibiotics, new antibacterial substances and disinfectants) in Gram-positive and Gram-negative bacteria. These strains may be present in the natural environment (water, soil and air) and healthcare environment and, mostly, can be isolated from clinical and veterinary materials. The multi-drug resistance observed in bacterial strains is due to the acquisition and interaction of several various resistance mechanisms.

Prof. Dr. Agnieszka Laudy

Prof. Dr. Stefan Tyski

Guest Editors





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Inorganic Chemistry)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI