



Strategies and Weapons to Fight Antimicrobial Resistance

Guest Editors:

Prof. Dr. Miguel Viñas

Laboratory of Molecular
Microbiology & Antimicrobials
Medical School, Department of
Pathology and Experimental
Therapeutics, University of
Barcelona, Barcelona, Spain

Dr. Josep M. Sierra

Laboratory of Molecular
Microbiology & Antimicrobials
Medical School, Department of
Pathology and Experimental
Therapeutics, University of
Barcelona, 08007 Barcelona,
Spain

Message from the Guest Editors

The MDPI executive editors have invited us to edit a Special Issue of *Microorganisms* devoted to summarizing data and perspectives on the newest strategies and weapons to be used in fighting the worldwide problem posed by antimicrobial resistance. Pharmaceutical techniques, combinations of antibiotics, the use of antimicrobial peptides both natural or synthetic, the inhibition of efflux pumps, new combinations of old antibiotics, the use of nanotechniques, or the use of light and photosensitizers appear to be theoretically useful tools for the near future. Moreover, a deeper knowledge of the mechanisms of both antibiotic action and resistance should constitute the basis for further developments. Theoretical chemistry and modeling may greatly contribute to this objective. The main purpose of this Special Issue is to present the state-of-the-art on this topic.

Deadline for manuscript
submissions:

closed (30 April 2019)





an Open Access Journal by MDPI

Editor-in-Chief

Dr. Nico Jehmlich

Department of Molecular
Systems Biology, UFZ-Helmholtz
Centre for Environmental
Research, 04318 Leipzig,
Germany

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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, PubAg, CAPlus / SciFinder, AGRIS, and other databases.

Journal Rank: JCR - Q2 (*Microbiology*) / CiteScore - Q2 (*Microbiology (medical)*)

Contact Us

Microorganisms Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/microorganisms
microorganisms@mdpi.com
X@Micro_MDPI