

Special Issue

Strategies and Weapons to Fight Antimicrobial Resistance

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.

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

Deadline for manuscript submissions

closed (30 April 2019)



Microorganisms

an Open Access Journal
by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed



mdpi.com/si/18977

Microorganisms
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
microorganisms@mdpi.com

[mdpi.com/journal/
microorganisms](https://mdpi.com/journal/microorganisms)





Microorganisms

an Open Access Journal
by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed



[mdpi.com/journal/
microorganisms](https://mdpi.com/journal/microorganisms)



About the Journal

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.

Editor-in-Chief

Dr. Nico Jehmlich

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPlus / SciFinder, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Microbiology) / CiteScore - Q1 (Microbiology (medical))

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 20 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).