



## Advances in Antibiotic and Antifungal Resistance and Related Alternative Therapies

Guest Editor:

**Prof. Dr. Alexandra Tabaran**

Faculty of Veterinary Medicine,  
University of Agricultural  
Sciences and Veterinary  
Medicine, Mănăștur Street, No.  
3/5, Cluj-Napoca, Romania

Deadline for manuscript  
submissions:

**closed (31 August 2023)**

### Message from the Guest Editor

Dear Colleagues,

Antibiotic resistance has become the greatest challenge in the field of public health, particularly when treating infections in animals and humans caused by multi-drug-resistant strains. The most concerning fact in pathogenic bacterial growth is their increasing resistance to various groups of antibiotics that are currently used in therapy. This ongoing process represents the most dangerous threat to the effectiveness of the existing antibiotics, and that is why research is needed to find more effective alternative treatments. There is a need for accurate data concerning the constant way in which bacteria evolve and manage to evade drug influence. In this way, more knowledge will be brought to the field concerning the mechanisms of resistance and ways to combat this. This Special Issue is focused on publishing multidisciplinary research that focuses on this complex issue. We encourage the publication of all important and updated results in the field of food microbiology, antibacterial resistance, characterization of alternative methods, efficient antimicrobial agents and techniques to develop them.





an Open Access Journal by MDPI

## Editor-in-Chief

### Dr. Nico Jehmlich

Department of Molecular  
Toxicology, 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 - Q1 (Microbiology (medical))

## Contact Us

---

*Microorganisms* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

mdpi.com/journal/microorganisms  
microorganisms@mdpi.com  
X@Micro\_MDPI