

Special Issue

The Epidemiology, Clinical Aspects, Treatment and Preventive Strategies for Infectious Diseases in the Era of Antimicrobial Resistance (AMR)

Message from the Guest Editor

We welcome original research articles, reviews, and short communications addressing, but not limited to, the following topics:

- Local, regional, and global epidemiology of multidrug-resistant bacterial and fungal infections;
- Mechanisms of resistance in Gram-positive, Gram-negative, and fungal pathogens;
- Clinical outcomes and management of infections caused by resistant organisms;
- Rapid microbiological diagnostics and antimicrobial susceptibility testing;
- Development of new antimicrobial agents and combination therapies;
- Stewardship programs targeting high-risk settings and vulnerable populations;
- Nosocomial outbreaks and infection prevention strategies;
- Resistance surveillance in humans;
- Biofilm-associated resistance in chronic infections;
- Translational research on host–pathogen interactions in resistant infections.

This Special Issue aims to contribute to a more informed and coordinated global response to AMR by bridging clinical microbiology, infectious diseases, and public health. By fostering collaboration across disciplines, we hope to drive innovation in treatment and prevention, ultimately improving patient outcomes and the sustainability of antimicrobials.

Guest Editor

Prof. Dr. Victoria Birlutiu

1. Faculty of Medicine, Lucian Blaga University of Sibiu, Sibiu, Romania
2. County Clinical Emergency Hospital, Sibiu, Romania

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

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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

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).