

Special Issue

Antimicrobial Resistance and Healthcare-Associated Infections: Epidemiology and Implementation of Global Strategies

Message from the Guest Editors

Antimicrobial resistance (AMR) and healthcare-associated infections (HAIs) remain among the most pressing threats to patient safety and health system resilience worldwide. In recent years, AMR has been elevated to the highest levels of international political commitment, including United Nations, G20, and World Health Assembly processes, with a strong emphasis on a One Health approach. While One Health has become a central organizing framework for global and national AMR strategies, its definition and practical application remain heterogeneous.

In this context, this Special Issue aims to bring together high-quality epidemiological, microbiological, and implementation-focused research that supports the translation of global AMR strategies into effective action within healthcare systems. We welcome original research and reviews addressing the epidemiology of HAIs and AMR, surveillance systems and methodologies, outbreak investigations, genomic and molecular epidemiology, and infection prevention and control interventions, with particular attention to studies that inform or evaluate the implementation of national, regional, or global AMR strategies.

Guest Editors

Dr. Ulf Reidar Dahle

Centre for Antimicrobial Resistance, Norwegian Institute of Public Health, Oslo, Norway

Prof. Dr. Belinda Farias Nicolau

Faculty of Dental Medicine and Oral Health Sciences, McGill University, Montreal, QC, Canada

Deadline for manuscript submissions

31 August 2026



Microorganisms

an Open Access Journal
by MDPI

Impact Factor 4.7
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/271752

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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 Systems Biology, UFZ-Helmholtz Centre for Environmental Research, 04318 Leipzig, Germany

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