

Special Issue

Prevention and Treatment of Healthcare-Associated Infections

Message from the Guest Editor

Out of every 100 hospitalized patients, around seven patients in high-income countries and around ten in low-income countries acquire a healthcare-associated infection (HCAI). Among critically ill patients, a HCAI may affect 10 to 40% of all ICU patients. The enormous heterogeneity of the incidence rates shows that most HCAIs are avoidable and that adequate prevention strategies would significantly lower the incidence. Unfortunately, HCAIs receive less public and political attention than they deserve, and social media generally only pays attention to the topic when epidemics or outbreaks occur. Moreover, the rising incidence of multi-resistance among bacteria and fungi increases the likelihood of inadequate antimicrobial selection, which worsens outcomes and/or leads to the overuse of broad-spectrum antibiotics, which stimulates a greater antibiotics resistance spiral. This Special Issue aims to gather up-to-date research and knowledge on the best strategies for HCAI prevention, early diagnosis and cutting-edge therapy, in an era of antimicrobial resistance.

Guest Editor

Dr. José-Artur Paiva

1. Intensive Care Medicine Service at Centro Hospitalar Universitário São João (CHUSJ), 4200-319 Porto, Portugal 2. Medicine Department at Faculty of Medicine, University of Porto, 4200-319 Porto, Portugal

Deadline for manuscript submissions

closed (30 April 2025)



Microorganisms

an Open Access Journal
by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed



mdpi.com/si/181261

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 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).