

Special Issue

Complex Infectious Issues in Critically Ill Patients 2.0

Message from the Guest Editors

Infection and sepsis, whether community or hospital-acquired, are important causes of morbidity and mortality in ICU and postoperative patients. These conditions require an early, prophylactic and appropriate antibiotic treatment, associated with rapid infection source control, hemodynamic optimization, and support of organ failure. Furthermore, concomitant infection with COVID-19 requires particular attention that requires specific treatment. The β -lactam antibiotics, because of their large antimicrobial spectrum and low toxicity, are among the first-line therapies for critically ill patients, particularly when a Gram-negative infection is suspected. This Special Issue will increase our knowledge of the epidemiology and treatment of complex infections in ICU and postoperative patients, and improve our understanding of the effects of antibiotic use in critical conditions. In addition, we would like to focus attention on the role of co-infection with COVID-19. We welcome all submissions dealing with the emergence of resistance, the epidemiology of multi-drug-resistant pathogens, drug dosing, and/or toxicity related to the use of β -lactam antibiotics.

Guest Editors

Dr. Savino Spadaro

Department Morphology, Surgery and Experimental Medicine Faculty of Medicine, University of Ferrara, Ferrara, Italy

Dr. Gaetano Scaramuzzo

1. Department of Translational Medicine Ferrara University, 44121 Ferrara, Italy

2. Emergency Department, Azienda Ospedaliera Universitaria Ferrara, 44121 Ferrara, Italy

Deadline for manuscript submissions

closed (30 April 2023)



Microorganisms

an Open Access Journal
by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed



mdpi.com/si/140546

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).