

# Special Issue

## Sepsis: Underlying Mechanisms, Pathogen-Host Interactions, Precision Diagnostic, Therapeutic Approaches, and Supportive Management

### Message from the Guest Editor

Sepsis, a life-threatening condition triggered by an overwhelming immune response to infection, remains the leading cause of death in hospitalized patients and continues to present a significant global health challenge. The understanding of the basic mechanisms has also progressively evolved. Starting from the search for factors related to the causative microorganism and host, it has been recognized that the components related to sepsis include the pathogen, the immune system, the endothelia and microcirculation, blood coagulation, and the nervous system with microglia and neurons. The current focus remains on gaining insight into underlying disease mechanisms and providing new diagnostics for early detection of patients with sepsis. Therefore, I invite all investigators working on sepsis to contribute with original papers or a literature review related to this topic.

### Guest Editor

Dr. Kenneth Remy

1. Department of Pediatrics, Case Western University School of Medicine, Rainbow Babies and Children's Hospital, Cleveland, OH, USA
2. Department of Medicine, Case Western University School of Medicine, University Hospitals of Cleveland, Cleveland, OH, USA

### Deadline for manuscript submissions

closed (31 October 2024)



**Microorganisms**

an Open Access Journal  
by MDPI

**Impact Factor 4.2**  
**CiteScore 7.7**  
**Indexed in PubMed**



[mdpi.com/si/191152](https://mdpi.com/si/191152)

*Microorganisms*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[microorganisms@mdpi.com](mailto: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).