

# Special Issue

## Bacterial Pathogenesis and Host Immune Responses

### Message from the Guest Editor

Pathogenic bacteria are the leading causes of morbidity and mortality globally. The importance of researching their pathogenesis and the host immune responses is paramount. In this Special Issue, we invite papers focusing on identifying and analyzing factors that enable bacteria to cause diseases in their hosts, examining molecular and cellular interactions between pathogenic bacteria and their hosts, exploring how bacteria develop resistance to antibiotics and strategies to combat this challenge, designing and developing vaccines that stimulate protective immune responses, understanding how pathogenic bacteria spread and trigger outbreaks, and identifying risk factors and prevention strategies. These studies will enhance our understanding of disease mechanisms, aid in the development of therapeutic strategies, improve the prevention and control of infectious diseases, advance scientific knowledge, and ultimately contribute to better public health outcomes. In this Special Issue, original research articles and reviews are welcome. We look forward to receiving your contributions.

### Guest Editor

Prof. Dr. Zhihui Cheng

College of Life Sciences, Nankai University, Tianjin, China

### Deadline for manuscript submissions

31 May 2026



## Microorganisms

---

an Open Access Journal  
by MDPI

---

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



[mdpi.com/si/209215](https://mdpi.com/si/209215)

*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).