

## Special Issue

# The Evolution of SARS-CoV-2: Molecular Properties, Virulence and Epidemiology

### Message from the Guest Editor

The world is grappling with the unprecedented COVID-19 pandemic caused by the novel severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). As the virus continues to spread globally, understanding its evolution and epidemiology is critical to developing effective strategies to control its transmission, protect vulnerable populations, and mitigate its impact on public health. The field of epidemiology plays a vital role in studying the patterns, determinants, and dynamics of infectious diseases within populations. By studying the epidemiology of SARS-CoV-2 infection, we can gain insights into various aspects of the pandemic, such as the evolution of the virus, disease transmission, risk factors, clinical outcomes, and the effectiveness of interventions. This Special Issue aims to connect researchers, scientists, and health professionals, and thus encourage them to share their research and contribute to our collective understanding of the epidemiological characteristics of SARS-CoV-2. Within the "One Health" concept, we invite researchers from various disciplines to contribute original research articles and comprehensive reviews to this Special Issue.

### Guest Editor

Dr. Barbara Camilloni

Department of Medicine and Surgery, Microbiology and Clinical Microbiology, Santa Maria Della Misericordia Hospital, University of Perugia, 06129 Perugia, Italy

### Deadline for manuscript submissions

closed (31 May 2025)



**Microorganisms**

---

an Open Access Journal  
by MDPI

---

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



[mdpi.com/si/183163](https://mdpi.com/si/183163)

*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 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).