

# Special Issue

## Clinical Implications of Microbial Biofilm 2.0

### Message from the Guest Editors

This Special Issue welcomes research articles, review articles, short communications and case reports focused mainly (but not only) on the following:

- mechanisms underlying the antimicrobial tolerance of biofilm communities;
- mechanisms in which bacterial biofilms evade, dampen, or actively counterattack the host immune response;
- definition of clinical indicators for biofilm formation (i.e., failure of appropriate antibiotic treatment, recalcitrance to appropriate antibiotic treatment, recurrence of delayed healing on cessation of antibiotic treatment, and unresponsiveness to antimicrobial therapy);
- in vitro predictors of biofilm formation and therapeutic outcomes for biofilm-related infections;
- non-device-related chronic biofilm disease;
- device-related biofilm disease;
- biofilm-related device malfunction;
- classic (antibiotic treatment) and alternative therapeutic strategies to combat biofilm-related infections;
- evaluation of the clinical impact of biofilm formation in human and animal studies;
- standardization of in vitro and in vivo models that allow for biofilm formation under environmental conditions similar to the infection site.

### Guest Editors

Prof. Dr. Giovanni Di Bonaventura

Department of Medical, Oral and Biotechnological Sciences, Center for Advanced Studies and Technology (CAST), Gabriele d'Annunzio University of Chieti-Pescara, 66100 Chieti, Italy

Dr. Arianna Pompilio

Department of Medical, Oral and Biotechnological Sciences, Center for Advanced Studies and Technology (CAST), Gabriele d'Annunzio University of Chieti-Pescara, 66100 Chieti, Italy

### Deadline for manuscript submissions

closed (31 May 2024)



## Microorganisms

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 7.4  
Indexed in PubMed



[mdpi.com/si/156210](https://mdpi.com/si/156210)

*Microorganisms*  
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 4.1  
CiteScore 7.4  
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 - Q2 (Microbiology)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 11.7 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2024).