# Special Issue

# Biofilm Development and Its Eradication

## Message from the Guest Editor

Bacteria readily attach to surfaces, forming biofilms. These are organised communities of bacteria embedded in a protective, self-generated extracellular matrix (ECM) that distinguishes them from free-living cells, such as their intrinsic tolerance to antibiotics and host immune defences and ability to cause persistent infections. Biofilm formation is largely determined by the interplay between bacterial surface sensing, the prevailing environmental conditions, and the physical and chemical properties of the surface. In this Special Issue, we aim to attract papers covering a broad range of disciplines on the development of new preventive approaches and offering a better understanding of the molecular and cellular mechanisms involved in biofilm initiation and development on which they depend. Hereby, we wish to highlight the emerging anti-biofilm strategies that can be translated to combat biofilm-associated infections, including targeting biofilm formation, disrupting the existing biofilms, and preventing the development of antibiotic resistance.

## Guest Editor

Dr. Jean-Frédéric Dubern

Biodiscovery Institute, School of Life Sciences, University of Nottingham, Nottingham NG7 2RD, UK

## Deadline for manuscript submissions

15 March 2026

**Microorganisms**

**an Open Access Journal by MDPI**

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

mdpi.com/si/251839

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

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

# 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).

MDPI