

# Special Issue

## The Evolution and Adaptation of Microbes in the Environment

### Message from the Guest Editors

This Special Issue focal points include, but are not limited to, the following:

- Adaptation of microbial communities to different environments. Marine and terrestrial habitats and biotopes.
- Adaptation of microbes to extreme environmental conditions. What is really an “extremophile”? Acido- and alkaliphile, adaptation to high (60 °C to 96 °C) or low temperatures (4 °C to -12 °C), adaptation to high salinity, oligotrophy, and other adaptations.
- Evolution of microbes to form communities and occupy new habitats. Genome modification and adaptation. Horizontal gene transfer.
- Symbiosis as an evolutionary force. Role of symbiosis (intracellular or extracellular, and among microbial populations and communities) in evolution.
- History of the microbial life on Earth. How microbes evolved and thrived in the different ages of our planet.
- The microbiomes of animals. Normal and dystopic human microbiomes. The holobiont concept and its implications. Microbial multiresistance to antibiotics and chemotherapeutics.

Reviews, original research papers, communications and translational articles are welcome.

### Guest Editors

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### Deadline for manuscript submissions

closed (15 March 2024)



## Microorganisms

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## 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.

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### Editor-in-Chief

Dr. Nico Jehmlich

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### Author Benefits

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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).