

Special Issue

Genomics in Bacterial Taxonomy: Impact on the Genus *Pseudomonas*

Message from the Guest Editors

The genus *Pseudomonas* is one of the most complex bacterial genera and is currently the genus of Gram-negative bacteria with the largest number of species, a number which is increasing every year. The difficulty in phenotypically identifying *Pseudomonas* species has been highlighted through the years, the use of phylogenetic molecular markers in taxonomic studies being necessary. The introduction of genomics is profoundly changing the current bacterial taxonomy. In this context, this Special Issue on “Genomics in Bacterial Taxonomy: Impact on the Genus *Pseudomonas*” of *Microorganisms* welcomes researchers all over the world to contribute with original articles addressing the latest knowledge about the taxonomy of the genus *Pseudomonas* and of species within the genus using the genomic approach.

Keywords: genomics; phylogenomics; evolution; taxonomy; phylogeny; comparative genomics; horizontal gene transfer; phytopathogenic *Pseudomonas*; biological control agent; clinical *Pseudomonas*; plant growth promotors; biodegradation; habitat correlation with genomics; *Pseudomonas*; ecological distribution; novel species

Guest Editors

Prof. Dr. Margarita Gomila
Prof. Dr. Jorge Lalucat
Dr. Antonio Busquets

Deadline for manuscript submissions

closed (30 December 2021)



Microorganisms

an Open Access Journal
by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed



mdpi.com/si/73843

Microorganisms
Editorial Office
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 4.2
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).