

# Special Issue

## New Insights into Epidemiology, Detection and Characterization of Bacterial Pathogens 2.0

### Message from the Guest Editors

In this Special Issue, We welcome the submission of Original Research Articles, Reviews mainly focused on, but not limited to, the following topics:

- Genomics and proteomics applied to the detection and characterization of bacterial agents
- Whole-Genome Sequencing and MALDI-TOF MS as bacterial species Identification tools
- MALDI-TOF Mass Spectrometry for detection of bacterial agents in clinical specimens
- Bacterial molecules as diagnostic markers
- Detection of bacterial markers by immunological, genomic and proteomic approaches
- PCR-based techniques for detection and characterization of bacterial agents
- Genome typing and epidemiology of bacterial pathogens
- Bioinformatics analysis of microbial sequence data
- Prediction of antimicrobial resistance in bacterial isolates by analysis of whole genome sequences, machine learning or MALDI-TOF MS
- New tools to evaluate epidemiology, population structure and evolution of bacterial pathogens
- Application and impact of Machine Learning in Bacteriology

### Guest Editors

Prof. Dr. Lúcia Martins Teixeira  
Dr. Cheryl P. Andam  
Dr. Stephanie S. R. Souza

### Deadline for manuscript submissions

closed (29 February 2024)



**Microorganisms**

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**Impact Factor 4.2**  
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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

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#### High Visibility:

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#### 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).