

Special Issue

Genomic Research and Applications of Insect Gut Microbes

Message from the Guest Editor

Plastics have highly versatile physical and chemical properties, allowing for the production of a broad range of affordable products for a variety of purposes. The purpose of this Special Issue is to bring to the scientific community studies on the biodegradation of plastics by microbes found in the gut of insects. As , I encourage the scientific community to send contributions (original research articles, review articles, and short communications) in areas including, but not limited to, the following:

- Identification of gut microbiota from plastic-degrading insects;
- Isolation and characterization of microbes from the gut of plastic degrading insects;
- Genomic studies of plastic-degrading microorganisms isolated from insect guts;
- Genetic manipulation of plastic-degrading microbes from insect guts;
- Use of microbes (and or enzymes isolated from them) derived from microbes' guts for the degradation of plastics;
- Genes and enzymes isolated from insect gut microbes involved in plastic degradation.

Guest Editor

Prof. Dr. Flávio Henrique-Silva

Department of Genetics and Evolution, Federal University of São Carlos, Rodovia Washington Luis, Km 235, São Carlos 13565-905, SP, Brazil

Deadline for manuscript submissions

closed (30 April 2024)



Microorganisms

an Open Access Journal
by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed



mdpi.com/si/163929

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).