



Specialized Metabolites from Microorganisms

Guest Editor:

Prof. Dr. Laurent Dufossé

Laboratoire de Chimie des
Substances Naturelles et des
Sciences des Aliments, ESIROI
Département Agroalimentaire,
Université de La Réunion, 2 rue
Joseph Wetzell, F-97490 Sainte-
Clotilde, La Réunion, France

Deadline for manuscript
submissions:

30 May 2024

Message from the Guest Editor

Specialized metabolites, formerly (or usually) called secondary metabolites, toxins, secondary products, or natural products, are organic compounds produced by any lifeform, e.g. bacteria, fungi, animals, or plants, which are not directly involved in the normal growth, development, or reproduction of the organism. This Special Issue will only focus on microbial specialized metabolites, fully in line with *Microorganisms* ISSN 2076-2607 aims and scope (over 7,700 articles published since 1996, on October 17, 2022). Please have a look there: https://www.mdpi.com/search?q=&journal=microorganisms&sort=pubdate&page_count=50. Bacterial production of secondary metabolites starts in the stationary phase as a consequence of lack of nutrients or in response to environmental stress. Secondary metabolite synthesis in bacteria is often described as not essential for their growth, however, they allow them to better interact with their ecological niche. The main synthetic pathways of secondary metabolite production in bacteria are b-lactam, oligosaccharide, shikimate, polyketide and non-ribosomal pathways.





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Editor-in-Chief

Dr. Nico Jehmlich

Department of Molecular
Systems Biology, UFZ-Helmholtz
Centre for Environmental
Research, 04318 Leipzig,
Germany

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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Journal Rank: JCR - Q2 (*Microbiology*) / CiteScore - Q2 (*Microbiology (medical)*)

Contact Us

Microorganisms Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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