



The Role of Microbial Biotechnology in the Development of Sustainable Biopolymers

Guest Editors:

Dr. Alejandro Chamizo-Ampudia

Área de Bioquímica y Biología Molecular, Departamento de Biología Molecular, Facultad de Veterinaria, Universidad de León, León, Spain

Dr. Silvia González-Rojo

Centro de Biocombustibles y Bioproductos, Instituto Tecnológico Agrario de Castilla y León (ITACyL), Polígono Agroindustrial del Órbigo p. 2-6, Villarejo de Órbigo, 24358 León, Spain

Deadline for manuscript submissions:

31 August 2024

Message from the Guest Editors

The widespread use of traditional plastics has resulted in governments and citizens today being confronted with their harmful effects on the environment and on human and animal health. For this reason, and considering the global demands of society, the search for new polymers that can replace petroleum-based plastics is urgent. Microbial synthesized polymers are considered to be the main candidates to achieve this change, due to their interesting properties, e.g., biodegradability, biocompatibility, non-toxicity, thermoplasticity, and so on. Microbial biotechnology allows progress to be made on new developments to replace traditional plastics. New biotechnological techniques have made it possible to study the mechanisms of biopolymer synthesis in microorganisms in depth. We are confident that the new advances related to the topic of this Special Issue will be of great interest to many professionals and academics. It is a pleasure to invite you to submit original articles or reviews on the importance of microbial biotechnology and new genomic advances in the development of new biopolymers.





an Open Access Journal by MDPI

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPlus / SciFinder, AGRIS, and other databases.

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

Contact Us

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

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/microorganisms
microorganisms@mdpi.com
X@Micro_MDPI