# Special Issue

# Bio-Convergence: Microorganism Usage for Sustainability Applications

## Message from the Guest Editor

Microorganisms are increasingly vital in promoting sustainability. As global challenges like climate change and resource depletion grow, harnessing microorganisms offers a crucial strategy. Bio-convergence merges biological engineering, such as synthetic biology, with traditional engineering disciplines. This integration allows for the creation of sustainable products and processes by combining biological innovation with classical engineering practices. This Special Issue explores how industries optimize production methods, enhance resource efficiency, and minimize environmental impacts through bio-convergence. For example, engineered microbial strains can produce biofuels, pharmaceuticals, or biodegradable materials. Bio-convergence offers a holistic approach to problem-solving, applying biological insights to engineering challenges, advancing biotechnology, and promoting sustainability across various sectors. I invite you to submit research articles, review articles, and short communications addressing the challenges of bio-convergence. I look forward to your contributions.

## Guest Editor

Dr. Yuval Dorfan
Holon Institute of Technology, Holon 810201, Israel

## Deadline for manuscript submissions

closed (31 July 2025)

**Microorganisms**

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**Impact Factor 4.2**
**CiteScore 7.7**
**Indexed in PubMed**

mdpi.com/si/214888

*Microorganisms*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
microorganisms@mdpi.com

mdpi.com/journal/microorganisms

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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.

## Editor-in-Chief

Dr. Nico Jehmlich
Department of Molecular Toxicology, UFZ-Helmholtz Centre for Environmental Research, 04318 Leipzig, Germany

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