

## Special Issue

# Microbial Biotechnology and Sustainable Development

### Message from the Guest Editors

Microbial biotechnology leverages the metabolic and genetic capabilities of microorganisms—bacteria, fungi, yeast, and algae—to develop sustainable products and processes. It is a multidisciplinary field integrating microbiology with engineering to address global challenges in health, agriculture, and the environment. Key applications include the production of therapeutics (antibiotics, vaccines), biofuels, food supplements, and industrial enzymes. Advanced techniques like genetic engineering and CRISPR-Cas9 are used to enhance these organisms for increased yield or novel functions. Furthermore, it plays a vital role in bioremediation, utilizing specialized microbes to clean up pollutants and restore environmental balance.

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### Guest Editors

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### Deadline for manuscript submissions

30 November 2026



## Applied Sciences

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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

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