

Special Issue

Microorganisms and Their Use in Biotechnological Production, 2nd Edition

Message from the Guest Editors

Microorganisms play a pivotal role in biotechnological processes, shaping industries across diverse domains. From pharmaceuticals to environmental remediation, their versatility is unmatched. Microorganisms have been used in different applications for thousands of years, especially in foods such as bread or in beer production. In recent decades, their uses have increased in chemical and biofuel production. Especially in the case of phototrophic microorganisms, their capability to capture CO₂ and utilize light has been exploited to produce different compounds. Furthermore, the applications of yeasts and bacteria in waste treatment, bioremediation of environmental pollutants, or as ameliorants against biotic and abiotic stressors have also increased. However, we still require knowledge regarding their mechanisms of action during their applications and regarding the potential use of new microorganisms. This Special Issue aims to explore the intricate interplay between microorganisms and biotechnological production. We invite contributions that delve into microbial physiology, metabolic engineering, fermentation, and novel applications, among others.

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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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