



Current Progress in Fermentation Technology and Microbial Biotechnology: A Comprehensive Overview of Recent Developments and Innovations

Guest Editors:

Prof. Dr. Nataša Hulak

Faculty of Agriculture, University of Zagreb, Svetošimunska cesta 25, 10000 Zagreb, Croatia

Prof. Dr. Gianluigi Mauriello

Department of Agricultural Sciences, University of Naples Federico II, 80055 Portici, Italy

Prof. Dr. Katleen Raes

Research Unit VEG-i-TEC, Department of Food Technology, Safety and Health, Faculty of Bioscience Engineering, Ghent University, 8500 Kortrijk, Belgium

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Message from the Guest Editors

In the ever-evolving landscape of biotechnology, the synergy between fermentation technology and microbial biotechnology continues to pave the way for groundbreaking advancements. This Special Issue delves into the latest developments in fermentation technology and microbial biotechnology, shedding light on the transformative strides that researchers and experts have made in these fields. Modern fermentation processes have evolved with advanced monitoring and control systems. Real-time data analytics, artificial intelligence, and automation optimize conditions, enhancing yields, reducing production times, and improving product quality. Moreover, microbial biotechnology utilizes microorganisms for various processes and has undergone significant advancements. Genetic engineering and synthetic biology enable the customization of microorganisms for specific industrial applications. This has led to improved productivity and resilience and the synthesis of desired compounds, impacting bioprocessing, healthcare, agriculture, and environmental management. Recent developments in fermentation technology and microbial biotechnology mark an exciting phase in biotechnological progress.





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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

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MDPI, Grosspeteranlage 5
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