Special Issue

Bioproduction of Functional and Bioactive Ingredients: State of the Art and Technological Advances

Message from the Guest Editor

This Special Issue aims to explore the current landscape and recent developments in the field of the microbial bioproduction of functional and bioactive compounds. Functional ingredients and bioactives derived from microorganisms offer significant potential for enhancing human health, nutrition, and well-being. This issue will cover a broad spectrum of topics including microbial metabolic engineering, fermentation technologies, bioprocess optimization, and the application of synthetic biology to improve yield and efficiency. Emphasis will be placed on innovative methodologies, cutting-edge technologies, and interdisciplinary approaches that drive the bioproduction of compounds such as vitamins, antioxidants, probiotics, prebiotics, and antimicrobial peptides. Contributions discussing the scalability, economic viability, and regulatory considerations of these bioproduction processes are also welcome. This Special Issue seeks to gather original research articles, reviews, and case studies that provide a comprehensive overview of the state of the art and highlight future directions in the bioproduction of functional and bioactive ingredients.

Guest Editor

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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.

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