

Special Issue

Advances in Food Biotechnology: Microbial and Enzymatic Innovations for Sustainable Food Systems

Message from the Guest Editors

Food biotechnology encompasses the application of modern biotechnological tools, particularly microbial and enzymatic approaches, to improve the quality, safety, nutritional value, functionality, and sustainability of food products. In recent years, significant advances have emerged in the development of innovative fermentation processes, microbial consortia, and enzyme-based bioconversions capable of enhancing traditional food systems and generating novel ingredients or functional foods. This Special Issue aims to gather original research articles, reviews, and short communications that explore biotechnological innovations in food production, with emphasis on the use of bacteria, yeasts, fungi, and their enzymes. Topics of interest include starter culture optimization, metabolic engineering, enzymatic hydrolysis, valorization of agro-industrial by-products, and applications in clean-label product development. This Special Issue provides a platform for interdisciplinary dialogue and highlights the potential of biotechnology to address global food challenges through science, innovation, and sustainability.

Guest Editors

Dr. Lilian Raquel Hickert
Prof. Dr. Manuela Poletto Klein
Dr. Lovaine Silva Duarte

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About the Journal

Message from the Editor-in-Chief

Foods (ISSN 2304-8158) is an open access and peer reviewed scientific journal that publishes original articles, critical reviews, case reports, and short communications on food science. Articles are released monthly online, with unlimited free access. Currently, *Foods* has been indexed by the Science Citation Index Expanded (SCIE - Web of Science), PubMed, and Scopus. Our aim is to encourage scientists, researchers, and other food professionals to publish their experimental and theoretical results as much detail as possible. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global food science community.

Editor-in-Chief

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