



Microbial Safety and Biotechnology in Food Production and Processing

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Message from the Guest Editors

Transforming the current food system toward the goals of providing healthy, high-quality and safe diets along with environmental sustainability constitutes one of the major challenges of current times. Therefore, the application of biotechnologically derived processes for the creation of novel food formulations with high consumer acceptance, improved microbial stability, enriched with health-promoting bioactive compounds and improved sensorial qualities has opened numerous opportunities for the food industry. Recently, there have been many biotechnology-related advances in the food industry. GM plants and animals are used to enhance the taste, shelf life, nutrition and quality of food. On the other hand, GM yeast and bacteria are used to produce enzymes for the sake of the food industry.

This Special Issue aims to collect and publish recent reviews and research articles related to biotechnology-derived food products, innovative and emerging food and by-product processing methods, fermented food products, structural and biochemical characterization of food-derived bioactive compounds, bioactivity evaluation and food waste and byproduct valorization.





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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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