Special Issue

Advances in Food Microbial Biotechnology

Message from the Guest Editor

Advances in food microbial biotechnology have significantly transformed the food industry. Advanced techniques have been developed to improve food production and quality using microorganisms such as bacteria, fungi and yeasts. For example, controlled fermentation has optimized the production of products such as cheeses, yogurts and bread, increasing their flavor, texture and nutritional value. In addition, genetic engineering allows for microbial strains to be modified to produce functional ingredients, such as probiotics and prebiotics, that benefit digestive health. Biotechnology has also allowed for the creation of microorganisms capable of breaking down toxic compounds in foods, improving their safety. Another promising area is sustainable food production using microorganisms, such as creating alternative proteins from yeast and bacteria, reducing dependence on traditional resources. These advances optimize food production and promote healthier and more sustainable eating.

Guest Editor

Dr. Luis Guillermo González-Olivares

Área Académica de Química, Instituto de Ciencias Básicas e Ingeniería, Universidad Autónoma del Estado de Hidalgo, Mineral de la Reforma, Hidalgo 42184, Mexico

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Microorganisms
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
microorganisms@mdpi.com

mdpi.com/journal/microorganisms

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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.

Editor-in-Chief

Dr. Nico Jehmlich
Department of Molecular Toxicology, UFZ-Helmholtz Centre for Environmental Research, 04318 Leipzig, Germany

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