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Advanced Microbial Biotechnologies for Food Nutrition and Human Well-Being

Guest Editors:

Dr. Lili Zhang

Key Laboratory of Dairy Science,
College of Food Science,
Northeast Agricultural University,
Harbin 150030, China

Prof. Dr. Huaxi Yi

College of Food Science and
Engineering, Ocean University of
China, Qingdao 266100, China

Dr. Liang Sun

Great Lakes Bioenergy Research
Center, University of Wisconsin-
Madison 1552 University Avenue,
Madison, WI 53726, USA

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Message from the Guest Editors

Dear Colleagues,

Microbial biotechnology refers to any technological application that utilizes microbial systems, microorganisms or their derivatives to manufacture or modify products or processes for specific purposes. This type of biotechnology is closely related to food nutrition and human well-being. The balance of microorganisms in the human body is key factor to maintain health. As a cell factory, microorganisms can synthesize bioactive compounds, such as enzymes and polysaccharides.

This research topic mainly focuses on microbial biotechnology to synthesize health promotion substances, health-promoting/disease prevention microbiota and their metabolites, and their mechanisms to promote human well-being. Additionally, it will explore product opportunities and challenges of microorganisms and microbial metabolites in the food industry from perspective of nutrition, health, safety, and sustainability. Furthermore, the food safety assessment of microbial-biotechnology-derived food and control of harmful microorganisms, potential adverse consequences of modified microbes, any microbial genomic tools to increase food safety are also part of this research topic.



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Prof. Dr. Lluís Serra-Majem

1. Centro de Investigación Biomédica en Red Fisiopatología de la Obesidad y la Nutrición (CIBEROBN), Institute of Health Carlos III, 28029 Madrid, Spain
2. Research Institute of Biomedical and Health Sciences (IUIBS), University of Las Palmas de Gran Canaria, 35001 Las Palmas, Spain
3. Preventive Medicine Service, Centro Hospitalario Universitario Insular Materno Infantil (CHUIMI), Canarian Health Service, 35016 Las Palmas, Spain

Prof. Dr. Maria Luz Fernandez

Department of Nutritional Sciences, University of Connecticut, Storrs, CT 06269, USA

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Contact Us

Nutrients Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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