

Special Issue

Advances in Gut Microbial Genomics and Metabolomics in Human Health

Message from the Guest Editors

This Special Issue will explore the latest advancements in gut microbial genomics and metabolomics. The human microbiome is integral to various physiological processes, including digestion, metabolism, and immune function, with disruptions linked to diseases such as obesity, diabetes, cardiovascular disorders, and neurological conditions. Recent innovations in genomics and metabolomics have deepened our understanding of microbial diversity and the metabolites that microbes produce. We welcome contributions that address the molecular mechanisms behind gut microbiome dysbiosis, the role of microbial metabolites in metabolic and immune regulation, and how these insights can lead to new therapeutic approaches for chronic diseases. Studies investigating the effects of diet, lifestyle, and environmental factors on microbiome composition, as well as the potential of microbiome-based therapies, are also encouraged. This Special Issue will provide a comprehensive platform for the latest research on microbial genomics and metabolomics, advancing our understanding of the microbiome's role in human health and disease prevention.

Guest Editors

Dr. Hea-jong Chung

Gwanju Center, Korea Basic Science Institute, Gwanju 61715, Republic of Korea

Dr. Ji-Seon Ahn

Korea Basic Science Institute, Gwangju, Republic of Korea

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

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Message from the Editorial Board

Nutrients is an on-line open access journal that was first published in 2009. *Nutrients* adheres to rigorous peer-review and editorial processes and publishes only high quality manuscripts that address important issues related to the impacts of nutrients on human health. The Impact Factor of *Nutrients* has risen rapidly since its establishment and it is now ranked in the first quartile of journals publishing in the field of nutrition and dietetics research.

Editors-in-Chief

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 (UIBS), 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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