Special Issue

The Interplay Between Food and Gut Microbiota in the Nutrient–Disease Link

Message from the Guest Editors

The human microbiota is shaped and influenced by numerous factors, including diet, genetics, immune system, culture, economy, behavior, and environment. It is acquired and developed during the first years of life, and is thought to play a crucial role in human health. Changes in the gut microbiota can have an impact on the immune system and diabetes, inflammation and insulin resistance, the development and treatment of tumors, cardiovascular disease, obesity, and behavior. Therefore, it is extremely important to understand the process of microbiota acquisition and to manage this process in a way that best serves human health. Infection with microbial, viral, or parasitic pathogens or the use of antibiotics to treat bacterial infections can trigger a profound change in the gut microbial ecosystem. This can lead to a prolonged and excessive inflammatory response that increases the risk of developing various chronic diseases and cancer. In recent years, a growing number of studies have shown that diet can modulate the composition of the gut microbiota, and is therefore a key factor in human health.

Guest Editors

Dr. Celia C. G. Silva

Dr. Daniela Ribeiro

Dr. Susana Isabel Chaves Ribeiro

Deadline for manuscript submissions

closed (30 April 2025)

Foods

an Open Access Journal by MDPI

Impact Factor 5.1
CiteScore 8.7
Indexed in PubMed

mdpi.com/si/201979

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

mdpi.com/journal/foods

Foods

an Open Access Journal by MDPI

Impact Factor 5.1
CiteScore 8.7
Indexed in PubMed

mdpi.com/journal/foods

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

Prof. Dr. Arun K. Bhunia
1. Department of Food Science, Purdue University, West Lafayette, IN 47907, USA
2. Department of Comparative Pathobiology, Purdue University, West Lafayette, IN 47907, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, FSTA, AGRIS, PubAg, and other databases.

Journal Rank:

JCR - Q1 (Food Science and Technology) / CiteScore - Q1 (Health Professions (miscellaneous))

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).