

## Special Issue

# Nutrient Digestion, Absorption, Energy Transformation and Metabolism

### Message from the Guest Editors

The process of nutrient utilization, which involves digestion, absorption, energy transformation and metabolism, is a key physiological foundation for the optimal functioning of human organs and overall health. The disordered utilization of nutrients increases the risk of nutritional and metabolic diseases, including undernutrition, obesity, metabolic syndrome, and diabetes mellitus, etc. It is notable that the bioavailability of nutrients is affected by intrinsic human factors, such as age, gender and physical activity, as well as dietary factors such as food matrix and origin, processing conditions, and food additives/dietary supplements. Additionally, accumulating evidence suggests that the gut microbiota plays a key role in the acquisition, storage, and expenditure of energy that is obtained from the diet, with its production of digestive enzymes, metabolic products and its synthesis of micronutrients.

This Special Issue invites authors to share their novel research or comprehensive review, with the aim of advancing our understanding of nutrient digestion, absorption, energy transformation and metabolism.

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### Guest Editors

Dr. Xiaohua Pan

State Key Laboratory of Food Science and Technology, Jiangnan University, Wuxi 214122, China

Dr. Yun Ji

State Key Laboratory of Animal Nutrition and Feeding, College of Animal Science and Technology, China Agricultural University, Beijing 100193, China

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### Deadline for manuscript submissions

closed (25 August 2024)



## Nutrients

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*Nutrients*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[nutrients@mdpi.com](mailto:nutrients@mdpi.com)

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## About the Journal

### 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.

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### 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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