

Special Issue

Nutrient Interaction, Metabolic Adaptation and Healthy Aging

Message from the Guest Editors

Aging is a complex and multifactorial process that is determined by many factors, including genetic background, metabolic regulation, and external environmental factors. Unhealthy aging is a major risk factor for the development of many diseases, prominently including neurodegenerative disease, cancer, diabetes, and cardiovascular disease. Nutrients, such as selenium and vitamin K, have recently become to be considered as key regulators of ferroptosis—which is a newly identified novel form of regulated, non-apoptotic cell death caused by iron-overload-dependent phospholipid peroxidation—and then influences cell aging, tumorigenesis, and cell death.

We welcome original in vitro, animal, and human studies, as well as reviews of the scholarship around aging. Submissions that address the mechanisms of genetic and epigenetic adaptation and metabolic programming among metabolic pathways, the interactions of nutrients during healthy aging, as well as nutrient imbalance under disease conditions and nutrient rebalancing for disease prevention and treatment are strongly encouraged. We focus on high-quality studies on the interactions and rebalancing of nutrients that benefit healthy aging.

Guest Editors

Dr. Zhenwu Huang

National Institute for Nutrition and Health, Chinese Center for Disease Control and Prevention, Beijing 100050, China

Dr. Shunming Zhang

School of Public Health, Xi'an Jiaotong University Health Science Center, Xi'an 710061, China

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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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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.

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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