# **Special Issue**

# Anti-Inflammatory and Anti-Oxidative Bioactive Compounds in Diet and Their Applications

## Message from the Guest Editor

Chronic inflammation and oxidative stress contribute to non-communicable diseases like cardiovascular disease, diabetes, neurodegenerative disorders, and cancer. Dietary bioactive compounds-polyphenols, carotenoids, and omega-3 fatty acids—can modulate inflammation and reduce oxidative damage, offering potential for disease prevention and health promotion. They work by scavenging free radicals, modulating signaling pathways, regulating gene expression, and interacting with the gut microbiota to maintain cellular homeostasis and reduce disease risk. Research focuses on identifying, characterizing, and applying these compounds in functional foods, nutraceuticals, and personalized dietary interventions. This Special Issue invites original research and reviews on the mechanisms, efficacy, and applications of antiinflammatory and antioxidative bioactive compounds in the diet, including molecular studies, animal research, human clinical trials, and population-based approaches. The aim is to advance the understanding and translational potential of dietary bioactives in promoting health and preventing chronic disease.

### **Guest Editor**

Prof. Dr. Weigun Wang

School of Health Sciences, Kansas State University, Manhattan, KS 66506, USA

### Deadline for manuscript submissions

30 June 2026



## **Nutrients**

an Open Access Journal by MDPI

Impact Factor 5.0 CiteScore 9.1 Indexed in PubMed



mdpi.com/si/248914

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

mdpi.com/journal/ nutrients





# **Nutrients**

an Open Access Journal by MDPI

Impact Factor 5.0 CiteScore 9.1 Indexed in PubMed





## **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. Lluis Serra-Majem

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

### Prof. Dr. Maria Luz Fernandez

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

## **Author Benefits**

Palmas, Spain

### **Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

## **High Visibility:**

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

## Journal Rank:

JCR - Q1 (Nutrition and Dietetics) / CiteScore - Q1 (Nutrition and Dietetics)