

## Special Issue

# Glutathione and Its Related Enzymes in Health and Diseases

### Message from the Guest Editor

Glutathione (GSH) is a thiol and tripeptide molecule synthesized using cysteine, glycine, and glutamate in the liver. The thiol group of cysteine is a major limiting substrate for the GSH synthesis within cells. GSH and its related enzymes (i.e., glutathione peroxidase and glutathione S-transferase) constitute an important endogenous antioxidant system in the human body. Glutathione peroxidase acts as the first line of the antioxidant defense system, while GSH and glutathione S-transferase are situated in the second line. In addition, GSH might have an anti-inflammatory role in different diseases. Consequently, GSH and its related antioxidant enzymes might have important roles in human health and disease. However, the influences of GSH and its related antioxidant enzymes on human health and disease have not been deeply investigated.

We are interested in exploring how GSH and its related antioxidant enzymes regulate oxidative stress or inflammatory responses before, during and after disease development. In addition, any factors affecting GSH and its related antioxidant enzyme capacities will be also discussed in this Special Issue.

---

### Guest Editor

Prof. Dr. Yi-Chia Huang  
Department of Nutrition, Chung Shan Medical University, Taichung  
40201, Taiwan

---

### Deadline for manuscript submissions

closed (5 September 2024)



## Nutrients

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.0  
CiteScore 9.1  
Indexed in PubMed



[mdpi.com/si/166034](https://mdpi.com/si/166034)

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

[mdpi.com/journal/  
nutrients](https://mdpi.com/journal/nutrients)





# Nutrients

an Open Access Journal  
by MDPI

Impact Factor 5.0  
CiteScore 9.1  
Indexed in PubMed



[mdpi.com/journal/  
nutrients](https://mdpi.com/journal/nutrients)



## 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 (IUIBS), 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

### Author Benefits

#### 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)