

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

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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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