



Glutathione and Its Related Enzymes in Health and Diseases

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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.





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