

## Special Issue

# The Role of Natural and Synthetic Sulfur Compounds in Human Health and Diseases

### Message from the Guest Editor

Sulfur metabolism plays a central role in redox biochemistry and tissue homeostasis in humans. Increasing evidence indicates an imbalance in sulfur metabolism in many diseases, from cardiovascular to metabolic disorders. Therefore, the use of sulfur compounds is emerging as a possible therapeutic strategy to restore the balance of sulfur metabolism, preserve human health and slow the progression of disease. Of note, some sulfur compounds can act as hydrogen sulfide (H<sub>2</sub>S) donors. This is an intriguing aspect of the pharmacology of sulfur compounds. In fact, the gasotransmitter H<sub>2</sub>S exhibits a plethora of beneficial effects: it enhances the endogenous antioxidant defense system, counteracts the inflammatory process, promotes vasorelaxation, and slows cellular senescence. This Special Issue aims to evaluate the role of sulfur compounds in human health and diseases to support a possible clinical use of natural and synthetic sulfur compounds in the prevention and treatment of multiple pathological conditions.

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### Guest Editor

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## International Journal of Molecular Sciences

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