

Special Issue on **Oxidative Stress in Endocrine Diseases**

CALL FOR PAPERS

Endocrine diseases are complex metabolic disorders in which both genetic and environmental factors are involved. The endocrine glands secrete hormones that are involved in physiological processes essential for cell metabolism. However, the glandular dysfunction that leads to hypersecretion or hyposecretion causes different hormonal endocrine pathologies that have as a common factor an imbalance in the cellular oxidation-reduction system. This imbalance occurs due to an excess of reactive oxygen species, whose main source of production is mitochondria and/or deficiency in cellular antioxidant mechanisms. Enhanced oxidative stress is thought to have an important role in the pathogenesis of endocrine diseases by enhancing the inflammation, inducing apoptotic cell death, and breaking down the immunological tolerance.

In this special issue, we would welcome manuscript submissions presenting outstanding contributions about the role of oxidative stress in the cellular and molecular mechanisms that lead or contribute to the progression of endocrine pathologies.

Potential topics include but are not limited to the following:

- ▶ Oxidative stress in endocrine physiology and metabolism, including hormone secretion, hormone action, and biological effects
- ▶ Effects of oxidative stress on the metabolism, cellular survival, and cellular longevity of endocrine glands
- ▶ Role of oxidative stress in inflammation and autophagy
- ▶ Participation of oxidative stress on immunity leading to the development of autoimmune endocrine diseases
- ▶ Participation of oxidative stress in the induction of epigenetic modifications in endocrine diseases
- ▶ Cellular and molecular mechanisms of oxidative stress involved in the etiology and progression of endocrine diseases and endocrine neoplasia
- ▶ Oxidative stress biomarkers in endocrine disorders

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/omcl/osedc/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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