

Special Issue on

The Role of Oxidative Stress in the Pathophysiology of Chronic Inflammatory Diseases

CALL FOR PAPERS

Chronic inflammatory diseases place a burden on the majority of health systems all around the world, essentially due to the lack of safe, effective, and affordable therapies. Diabetes, cardiovascular diseases, arthritis, allergies, and chronic obstructive pulmonary diseases are classified by the World Health Organization as specific chronic inflammation-mediated diseases. While multiple processes underlie these inflammation-mediated diseases, oxidative stress is undoubtedly involved in their pathogenesis as well as the development and establishment of a sustained inflammatory state.

Oxidative stress is caused by an overproduction of reactive oxygen species, resulting in deleterious effects such as oxidative damage of DNA, lipids, and proteins. It can also lead to the activation of various proinflammatory signaling pathways that result in the production of a series of cytokines and chemokines, eicosanoids, growth factors, cell cycle regulatory molecules, etc.

This special issue intends to gather original research and review articles that help to elucidate the role of oxidative stress in the pathophysiology of chronic inflammation-mediated diseases. We encourage the submission of *in vitro* (biochemical or cellular) and/or *in vivo* studies on inflammation; allergies; diabetes; arthritis and joint diseases; cardiovascular, renal, neurodegenerative, chronic obstructive pulmonary, and gastrointestinal diseases.

Potential topics include but are not limited to the following:

- ▶ General role of oxidative stress in the inflammatory process
- ▶ Cellular production of reactive species in inflammatory diseases
- ▶ Detection of reactive species in inflammatory diseases
- ▶ Expression/production/modulation of inflammatory mediators triggered by reactive prooxidant species
- ▶ Strategies to prevent/treat oxidative stress-related inflammatory diseases
- ▶ Findings on potential antioxidant/anti-inflammatory compounds, establishing the respective structure activity relationships (SAR)

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

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

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