

Special Issue on **Oxidative Stress and Inflammation in Cardiovascular Disease**

CALL FOR PAPERS

Free radicals such as reactive oxygen and nitrogen species (ROS and RNS) are produced physiologically by various biochemical pathways and regulate numerous signaling processes and cellular homeostasis. However, under pathological conditions, loss of antioxidant defense creates an imbalance in the redox cellular environment leading to diverse disorders and augments the proinflammatory response.

Oxidative nitrosative stress and inflammation occurring in metabolic disorders such as obesity, hypertension, and diabetes have been postulated as underlying mechanisms of cardiovascular diseases development. Evidences from experimental and clinical studies have shown that left ventricular hypertrophy, fibrosis, diastolic dysfunction, heart failure, and ischemia/reperfusion damage are some of the pathologies related to deregulation of the mechanisms that control oxidative nitrosative stress and inflammation.

In this special issue, we are inviting researchers to contribute original research as well as review articles in this field, to broaden our understanding of the link between oxidative/ nitrosative stress and inflammation processes in cardiovascular diseases.

Potential topics include but are not limited to the following:

- ▶ Oxidative stress and inflammation in cardiac hypertrophy
- ▶ Oxidative stress and inflammation in cardiac fibrosis
- ▶ Role of oxidative stress and inflammation in heart failure
- ▶ Role of mitochondria as main ROS generators in cardiovascular diseases
- ▶ Relationship between oxidative stress and inflammation in cardiovascular diseases
- ▶ Metabolic changes in cardiovascular diseases related to oxidative stress
- ▶ Novel antioxidant and anti-inflammatory-based therapies in cardiovascular disease

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

Lead Guest Editor

Noemí García, Tecnológico de Monterrey, Monterrey, Mexico
garcianr@itesm.mx

Guest Editors

Cecilia Zazueta, Instituto Nacional de Cardiología-Ignacio Chávez, Mexico City, Mexico
azazueta@yahoo.com

Leopoldo Aguilera-Aguirre, University of Texas Medical Branch, Galveston, USA
leaguile@utmb.edu

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