

Special Issue on **Oxidative Stress in Diabetic Vascular Complications: Mechanistic Insights and Therapeutic Strategies**

CALL FOR PAPERS

Diabetes is a worldwide public health problem; it is the leading cause of atherosclerosis and is associated with increased mortality from cardiovascular complications. The tight interactions between mitochondrial overproduction of reactive oxygen species and the development of diabetic vascular complications are becoming increasingly evident. Several factors, including elevated blood glucose levels and an activated polyol pathway, have been implicated in the pathophysiology of oxidative stress in diabetic patients. However, the exact molecular mechanism by which oxidative stress affects diabetic microvascular complications (e.g., neuropathy, retinopathy, and nephropathy) and cardiovascular diseases remains to be elucidated. Given the importance of diabetic complications as a major risk factor for poor quality of life and death in diabetic patients, it is essential to understand how the redox balance of the organism is maintained and how oxidative stress impacts the progression of diabetic vascular complications.

In this special issue, we invite researchers to submit original research articles as well as review articles focusing on the molecular mechanisms of oxidative stress in diabetic patients. Contributions showing original therapeutic opportunities or strategies for reducing diabetic microvascular and macrovascular complications are also encouraged.

Potential topics include but are not limited to the following:

- ▶ Pathophysiology of cellular oxidative stress in diabetic vascular complications
- ▶ Pathogenesis of mitochondrial dysfunction in patients with diabetic angiopathy
- ▶ Disturbance of energy homeostasis among patients with diabetic vascular complications that contribute to increased oxidative stress
- ▶ Biomarkers of oxidative stress in diabetic microvascular and macrovascular disease
- ▶ Antioxidant, functional foods, and nutraceuticals in the management of diabetic vascular complications

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

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

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