

Special Issue on **Role of Novel Natural Molecules and Pharmaceuticals in Parkinson's Disease: Implications in Neuroinflammation and Oxidative Stress**

CALL FOR PAPERS

The pathogenesis of Parkinson's disease is multifactorial and it has been known that genetic and environmental factors are responsible for the progression of the disease. The degenerative process of the disease starts much earlier before common symptoms appear. Oxidative stress and inflammation are key players in the development of neurodegenerative disorders and may act independently or cooperatively during disease progression. A large body of evidence showed that oxidative stress, mitochondrial dysfunctions, protein aggregation and phosphorylation, excessive iron accumulation in brain, and neuroinflammation play pivotal role in neurodegeneration. Absence of specific cure for Parkinson's disease makes pursuing novel medicines more demanding. However, research is still going on to search for novel neuroprotective agents which can prevent or delay the progression of the disease.

This special issue aims to provide a multidisciplinary platform for discussing intervention of small molecules from natural origin in Parkinson's disease associated with oxidative stress and neuroinflammation. This issue will emphasize the role of natural molecules and pharmaceuticals in the development of new preventive and therapeutic strategy regarding Parkinson's disease.

The purpose of this special issue is to review research data related to possible protective factors of neurodegeneration induced by reactive oxygen species load, oxidative stress, inflammation, glial cells activation, and excitotoxicity. This issue accepts original high-quality research articles that are not yet published or sought for publication.

Potential topics include but are not limited to the following:

- ▶ Prevention of Parkinson's disease by natural molecules and pharmaceuticals
- ▶ Bioanalytical studies and receptor mediated mechanism of natural compounds for the prevention of Parkinson's disease
- ▶ Mechanisms of action of pharmaceuticals and natural products targeting oxidative stress and neuroinflammation in Parkinson's disease
- ▶ Computational studies of natural compounds targeting Parkinson's disease
- ▶ Natural molecules targeting protein misfolding and mitochondrial dysfunction in Parkinson's disease

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

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

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