



Parkinson's Disease

Special Issue on

Natural Therapeutics for Neuroinflammation and Parkinson's Disease: Present and Future Prospective

CALL FOR PAPERS

Parkinson's disease is the second most neurodegenerative disease caused by various clinical factors and the most important among those factors is neuroinflammation. Neuroinflammation plays a vital role in the fast declining of the neuronal activity by increasing the neuroinflammatory pathway and the progression of Parkinson's disease which in turn initiates by various factors includes environmental toxins, free radical cell death, age related factors, and genetic makeups. In ancient medicines, herbal therapeutics play a successful role in the effective inhibition of neuroinflammatory pathways and thereby prevention of progression of Parkinson's disease. However, their bioefficiency was limited due to their limitations in crossing the blood brain barrier. To overcome this, many synthetic therapeutics are developed, which in turns have other negative effects leading the researchers to search for natural medicine with higher efficiency in delivery of the bioactive compounds to the brain.

Currently, various bioactive compounds isolated from natural products or animals are identified and characterized for their enhanced bioactivity in various experimental models of Parkinson's disease using novel drug delivery system. Among those techniques, a very novel nanosizing and nanocarrier delivery system plays a successive role in enhanced therapy for the neuroinflammation of Parkinson's disease. The objective of the current issue is to provide the enhanced efficiency of natural bioactive compounds in the prevention and treatment of neuroinflammation and Parkinson's disease.

We invite researchers or medical doctors to contribute original research articles as well as review articles that will elucidate the role of natural bioactive compounds and their derivatives in the treatment of neuroinflammation and Parkinson's disease.

Potential topics include, but are not limited to:

- ▶ Role of neuroinflammatory mediators in Parkinson's disease
- ▶ Drug targets from natural products for neuroinflammations
- ▶ Novel drug delivery system using bioactive compounds for neuroinflammation and Parkinson's disease
- ▶ Various key experimental models both in vitro and in vivo to investigate the therapeutic nature of drug targets for neuroinflammation and Parkinson's disease
- ▶ Role of bioactive compounds in ameliorating redox signaling and oxidative stress associated with Parkinson's disease
- ▶ Investigation of cellular and molecular mechanism of bioactive compounds for Parkinson's disease

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/pd/ntnp/>.

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