

Special Issue on **Functional Foods/Nutraceuticals: Impact on Redox Status in Neurodegenerative Diseases**

CALL FOR PAPERS

Oxidative stress plays a critical task in neurodegenerative diseases and many other chronic diseases. Functional foods/nutraceuticals are rich in biologically active compounds such as phenolics, alkaloids, terpenes, flavonoids, isoflavones, and saponins that have potential in reducing the risk of neurological disorders. Evidence suggests that these compounds are found chiefly in fruits, vegetables, herbs, spices, and nuts and may potentially prevent or improve brain function. Due to the side-effects arising from drugs and other preventive agents in the management/prevention of neurodegenerative diseases, intervention strategies employing cheap natural products with little or/no side-effects are of vital significance. Functional foods/nutraceuticals are rich in neuroprotective antioxidants and their usage provide a promising approach to delay the progression of various neurological diseases such as Alzheimer's disease, Parkinson's disease, and other neuronal dysfunctions. The molecular mechanisms of action of these phytochemicals on distinct signaling pathways are associated with oxidative modifications, neuroinflammation, and gene expression.

This special issue aims to revise the significance of functional foods/nutraceuticals rich in antioxidants phytochemicals and their importance in controlling the status of oxidative stress, inflammation, cognition, memory, behavior, and other biochemical abnormalities associated with neurodegenerative diseases.

We invite investigators to contribute original research as well as review articles that will stimulate continuing efforts to improve or delay the progression of various neurological diseases and finding novel approach for the development of diet with possible therapeutics against brain diseases.

Potential topics include but are not limited to the following:

- ▶ Topical advancements in the involvement of oxidative stress in neurodegeneration
- ▶ Effect of functional foods and antioxidants on neurodegenerative diseases
- ▶ Effect of dietary supplement on brain function
- ▶ Advances in modification of food processing, genetic engineering in order to improve their neuroprotective potential
- ▶ Neuroinflammatory processes in neurodegenerative diseases
- ▶ Effect of natural antioxidants/natural plant products on neuroinflammation and neurodegenerative diseases
- ▶ Ethnopharmacological approach and evaluation on brain associated disorders

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

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First Round of Reviews

Friday, 4 August 2017

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