

Oxidative Stress in Neurodegeneration, Health and Ageing

Call for papers

Substantial evidence continues to show that oxidative stress is a major underlying factor in brain cell degeneration. Chronic oxidative stress leads to deleterious cellular processes associated with ageing and a wide variety of neurodegenerative diseases, including Parkinson's disease, Alzheimer's disease, Friedreich's ataxia, amyotrophic lateral sclerosis, and stroke. Oxidative damage to our cells as a result of poor diet and lifestyle choices are likely to play a drastic role not only in ageing, but also in the development and progression of neurodegenerative diseases. Over the last years, there is a growing awareness of the role of phytochemicals as increasingly attractive targets for the development of neurodegenerative disease therapies that prevent or slow down the underlying neuronal loss. Thus, further investigation in this subject will provide renewed insight on the implication of oxidative stress in neurodegenerative disorders, and contribute to the growing awareness of the role of natural botanicals as future therapies for neurodegeneration and brain ageing.

We invite authors to submit original research and review articles that seek to improve our understanding of the role of oxidative and nitrosative stress, excitotoxicity, mitochondrial function, antioxidants, polyphenols and inflammation in the pathophysiology of neurodegenerative disorders. Potential topics include, but are not limited to:

- Research in mitochondrial function and cellular respiration, reactive oxygen species, and nitric oxide on brain cell viability, and in particular neuronal survival;
- Recent advances on the impact of oxidative stress in neurodegenerative disorders;
- Involvement of excitotoxicity in neurodegeneration and brain cell physiology;
- Role of inflammatory mediators in free radical generation in the brain;
- Recent developments in natural occurring phytochemicals as neurodegenerative diseases therapies.

Before submission authors should carefully read over the journal's Author Guidelines.

Prospective authors should submit an electronic copy of their complete manuscript through the journal Manuscript Tracking System.

Manuscript Due: Monday, 1 July 2013

First Round of Reviews: Friday, 12 July 2013

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Guest Editor: **Dr Nady Braidy**, *Centre for Healthy Brain Ageing*, School of Psychiatry, Faculty of Medicine, University of New South Wales, Neuropsychiatric Institute, Euroa Centre, Barker Street, Randwick, NSW 2031 AUSTRALIA T: +61 (2) 9385 3895 W: www.cheba.unsw.edu.au E: n.braidy@unsw.edu.au