



Redox Regulation and Proteostasis in Ageing and Associated Diseases

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Message from the Guest Editors

Loss of redox and protein homeostasis (proteostasis) is a common feature of aging and associated diseases that is characterized by accumulation of cellular damage, unresolved oxidative stress, chronic inflammation and cellular senescence in various tissues. Little is known about how redox homeostasis and proteostasis are challenged during aging and how they are restored with interventions such as exercise, calorie restriction and nutraceuticals. NRF2 has been known as the master regulator of cellular redox homeostasis, but how NRF2 contributes to the onset and progression of age-associated pathologies remains elusive. As the expanded lifespan of the aging population continually imposes challenges on the rapid increase of chronic disease, more research is required to further understand redox regulation and proteostasis in the aged population, to identify specific therapeutic targets for aging, and to uncover plant constituents or other antioxidant molecules and their mechanisms of action for developing new anti-aging strategies.





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Message from the Editor-in-Chief

It has been recognized in medical sciences that in order to prevent adverse effects of "oxidative stress" a balance exists between prooxidants and antioxidants in living systems. Imbalances are found in a variety of diseases and chronic health situations. Our journal *Antioxidants* serves as an authoritative source of information on current topics of research in the area of oxidative stress and antioxidant defense systems. The future is bright for antioxidant research and since 2012, *Antioxidants* has become a key forum for researchers to bring their findings to the forefront.

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