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Nrf2 in Acute and Chronic Neurological Disorders

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Message from the Guest Editor

There is a lack of effective neuroprotective therapies for both acute and chronic neurological disorders. Nrf2 is a transcription factor that aids in regulating cellular and organismal protection and plays a crucial role in firmly controlling redox homeostasis and inflammation in the body. Consequently, the pleiotropic nature of Nrf2 has unique therapeutic potential for the prevention and treatment of both acute and chronic diseases of the central nervous system. The advantage of targeting transcription factor Nrf2 lies in its ability to activate several downstream neuroprotective proteins and enzymes. Nrf2 has been shown to delay necrosis and cell death, reduce cell edema and inflammation, improve function and survival of all cells in the brain, and restore normal flow. It may provide brain resistance against a primary or chronic series of insults. Due to extensive evidence regarding the neuroprotection and benefits of Nrf2 in preclinical models, it is now recommended to test brain-penetrant Nrf2-activating drugs to treat these various neurological deteriorations in rigorous double-blinded clinical trials.

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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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