Special Issue

Antioxidants in Chronic Pain II

Message from the Guest Editor

Reactive oxygen species (ROS) are elevated in the central and peripheral nervous system of animals with chronic pain, and ROS scavengers alleviate hyperalgesia. The role of several antioxidants in pain relief by attenuating ROS generation and/or by activating the endogenous antioxidant system triggered by the nuclear factor erythroid-2 related factor 2 (Nrf2), heme oxygenase 1 (HO-1) and/or the catalase signaling pathway has been demonstrated. Thus, Nrf2/HO-1 activators modulate the pronociceptive responses generated by nerve damage, inflammation and/or hyperglycemia, being a good therapeutic strategy. There is a wide variety of antioxidant compounds with different structures and chemical properties whose analgesic properties and mechanisms of action during chronic pain have not been identified. This Special Issue on “Antioxidants in Chronic Pain II” aims to collect original research papers designed to identify new antioxidant compounds able to efficiently relieve chronic pain, as potential therapeutic targets. We believe that this Special Issue will help to advance research on new effective strategies in the treatment of chronic pain.

Guest Editor

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About the Journal

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.

Editor-in-Chief

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