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Hypoxia-Induced Oxidative Stress in the Brain

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Deadline for manuscript submissions:
closed (31 August 2020)

Message from the Guest Editor

Deprivation of the tissue of adequate oxygen supply, called hypoxia, usually involves damage of the tissue of organs it affects. The mammalian brain is a highly oxygen-consuming organ, which makes it especially sensitive to hypoxia. Brain hypoxia may occur in all age groups as a consequence of birth asphyxia, cardiac arrest, stroke, carbon monoxide poisoning or even sport activities like high mountain climbing or diving. Fathoming mechanisms of neuronal death triggered by free oxygen radicals formed in the brain under hypoxic conditions and reoxygenation as well as search for effective ways to suppress oxidative stress has occupied research for decades.

This Special Issue “Hypoxia-Induced Oxidative Stress in the Brain” is dedicated to presenting current knowledge and future prospects on hypoxia-induced oxidative stress in the brain. We invite experts on various aspects of oxidative stress and its involvement in hypoxia induced brain damage. We welcome the submission of manuscripts either describing original research or reviewing the scientific literature in this field.

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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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