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Redox Signaling and Oxidative Stress in Cerebrovascular Disease

Guest Editors:

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Deadline for manuscript submissions:
closed (31 December 2019)

Message from the Guest Editors

We welcome research articles and review articles related to the following topics:

- Role of oxidative stress and/or inflammation in onset and progression of cerebrovascular diseases
- Role of oxidative stress and/or inflammation in neurovascular unit dysfunction and blood–brain barrier hyperpermeability
- Mechanisms underlying the crosstalk between oxidative stress and inflammation in endothelial cells and vascular tissues
- NADPH oxidases as friends or foes of endothelial cells and the vascular system
- Role of NADPH oxidases and reactive oxygen species in cerebrovascular physiology and pathology
- Functional crosstalk between Nrf2 and NF-κB signaling pathways in the regulation of endothelial cell responses to oxidative stress and inflammation
- Role of autophagy in endothelial cell responses to oxidative stress and inflammation
- Genetic susceptibility factors related to differences in vascular sensitivity to oxidative stress and inflammation
- Biomarkers of oxidative stress and inflammation associated with progression and severity of vascular diseases
- Innovative antioxidant and drug combination therapies for prevention and treatment of vascular diseases

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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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