Special Issue

In Vivo Real-Time Observation of Redox State

Message from the Guest Editors

The last five years have been a re-discovery of the role of the radical oxygen species (ROS)-a new light has been shed thanks to a huge improvement in redox and antioxidants probes, markers and the spatial resolution of its detection. However, important issues are still unsolved: the specificity of the probes, pharmacological or biological interference of the signal, limited capacity of the existing probes to be applied in in vivo models and the complete absence of a suitable redox probe for humans are among the major voids in the field. For humans, apart from blood measurements of antioxidant capacity, measurements such as protein levels and end-point redox damage are excessively time- and resource-consuming and do not provide a real-time observation of the redox state of the patient. We aim to reach the chemistry synthesis of probes, to the experience in the use of the different available techniques in vivo for both cell culture and animal models, as well as sharing their perspective on the human observation of the redox state.

Guest Editors

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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.

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