Special Issue

Redox Signal in the Reproductive System

Message from the Guest Editors

Redox signaling is a common form of cellular communication within a living organism and is an essential function of normal physiology. In this regard, the urogenital system, like other systems, is constantly exposed to molecules that come from these reactions and act as either cellular messengers or cellular activators. Thus, in certain conditions depending upon genetic or epigenetic alterations associated with lifestyle and environmental factors, this unbalance could cause cell or organ damage affecting specific pathologies of the urogenital/reproductive system. The oxidative stress may also act indirectly by affecting the hypothalamus–pituitary–gonadal axis and/or disrupting its crosstalk with other hormonal axes. Redox alteration can also increase the risk of developing urolithiasis, renal fibrosis, and bladder disorders. Therefore, in this Special Issue, original research papers or review articles that consider different aspects associated with redox status alteration(s) in the reproductive or urogenital system, either in preclinical or clinical stages, and aim to identify therapeutic targets (mechanisms/pathways) are more than welcome.

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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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