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Cross Talk between Hormones, Programming and Oxidative Stress

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Message from the Guest Editors

Increased oxidative stress has been associated with diseases such as metabolic syndrome, characterized by increased abdominal fat, insulin resistance, cardiovascular disease and dyslipidemia. On the other hand, obesity, type 2 diabetes mellitus and arterial hypertension in adulthood can originate early in life due to nutritional, hormonal and environmental insults—a phenomenon called metabolic programming. Since obesity is recognized as a global pandemic, it is important to know the key role of oxidative stress in cell damage and dysfunction in this situation. The present research topic “Cross Talk between Hormones, Programming and Oxidative Stress” intends to stimulate discussion on animal and human studies highlighting the central role of oxidative stress on both endocrine disorders and programming. In addition, discussions on non-pharmacological strategies such as physical exercise are also welcome, as they have great therapeutic potential in health and related pathophysiological mechanisms. We believe that this topic is current and can generate new insights into therapeutic strategies for obesity.



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Special Issue



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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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