



Metabolomics, Oxidative, and Nitrosative Stress in the Perinatal Period

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Message from the Guest Editors

The perinatal period is extremely sensitive to external stimuli, and events that may disturb the equilibrium within the mother-infant dyad might have a substantial short- and long-term impact on the infant's health and development. Namely, oxidative stress has been shown to be of key importance in the pathophysiology of several diseases coined by Professor OD Saugstad as the "Oxygen radical diseases of Neonatology", affecting term as well as preterm infants.

Research focusing on the study of the physiology of the newborn as well as the assessment of diseases occurring in the perinatal period are in the spotlight of this Special Issue with the aim of providing a forum for this specific field of application. Specifically, this Special Issue encourages submissions focused on clinical studies, animal and in vitro models involving the use of metabolomics and the assessment of oxidative and nitrosative stress in situations of health and disease of the newborn. In addition, submission related to the development of customized analysis approaches addressing the particular challenges of studying the newborn, e.g., limited number of accessible samples, are also welcome.





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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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