

Special Issue

Antioxidant Defense and Oxidant Load in Pediatric Health and Disease

Message from the Guest Editors

The balance between oxidant load and antioxidant defenses is at the heart of health state, at all ages, especially in paediatrics. The unbalanced oxidant-antioxidants status is a cornerstone in many pediatric pathologies, including oxidative stress-related diseases in preterm infants (bronchopulmonary dysplasia, retinopathy of prematurity, etc.), and, later in life, type 1 diabetes, asthma, cystic fibrosis, juvenile idiopathic arthritis, and pediatric non-alcoholic liver disease. This Special Issue will welcome original research and reviews of literature concerning the oxidant load and antioxidant defenses in pediatric health and diseases, including the following topics:

- Oxidant load and antioxidant defenses, including present strategies and future directions.
- Unbalanced oxidant-antioxidant related diseases pathogenesis and the most recent advances in prevention and treatment in pediatrics.
- Environmental factors affecting the oxidant-antioxidant balance including air pollution, smoking, nutrition and physical activity.

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Deadline for manuscript submissions

closed (31 December 2018)



Antioxidants

an Open Access Journal
by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed



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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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