



Oxidative Stress in Newborns and Children

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Message from the Guest Editors

Efforts to understand and prevent oxidative-stress-mediated diseases are worthwhile because of the huge number of newborn infants and children involved and the enormous cost to society. The pathophysiology of oxidative-stress-mediated injury along life is complex and multifactorial, with oxidants playing a pivotal role because due to their involvement in the final common pathway for multiple converging events.

Antioxidant therapies may be considered to decrease organ damage. The mechanisms by which antioxidants exert protection are not fully understood. Antioxidants can act at different steps of the damage: scavenging reactive oxygen species, reducing the production of free radicals, altering antiradical defenses, increasing the antioxidant levels, and adding lipophilic antioxidants into cell membranes. Additionally, some antioxidants exhibit anti-inflammatory and anti-apoptotic properties as well.

We invite you to submit your latest research results or a review articles to this Special Issue, which will bring together current research related to oxidative stress in newborns and children and the action that antioxidant therapies have.





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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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