



Advances of Redox Status in Disease

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Message from the Guest Editors

Oxidants are considered a double-edged sword. On the one hand, a fine-tuned basal level is indispensable for redox signaling and cell homeostasis, promoting adaptations to new challenging environments. On the other hand, an uncontrolled production of oxidants can be detrimental for an organism, establishing a condition commonly known as Oxidative Stress (OxS). This complicated picture is further aggravated by the interdependent relationship existing between OxS and inflammation, which may have been at least partially responsible for the failure of past antioxidant clinical trials. Therefore, complete knowledge of both oxidant status and inflammation during a pathological condition could be essential for the selection of the right therapy and adjuvant antioxidants as well. Considering this point and the involvement of both OxS and inflammation in the pathogenesis of many clinical conditions (e.g., cardiovascular diseases, neurodegenerative disorders, metabolic conditions, and tumors), it urges one to advance the knowledge on redox status and inflammation in diseases.

Keywords

- oxidative stress
- antioxidants
- inflammation
- human diseases
- redox status





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