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Free Radicals, Antioxidants and Oxidative Stress in Aging and Age-Related Diseases

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Deadline for manuscript
submissions:

closed (31 July 2024)

Message from the Guest Editors

ROS are reactive molecules or free radicals derived from Oxygen and involved both in the maintenance of homeostasis and as the main inducer of oxidative damage to plasma and cellular components. Oxidative stress, which is defined as an imbalance between ROS and the available antioxidant system, is involved in different physiological and physio-pathological processes. Cellular senescence is activated by multiple intrinsic and extrinsic stimuli, including telomere shortening, DNA damaging agents, oncogene hyperactivation. Interventions with antioxidants have shown a beneficial effect in inhibiting or reducing the incidence of different age-related diseases. The purpose of this Special Issue is to review the current state of our knowledge regarding the effect of free radicals on the aging process. Particular attention will be given to studies on the effect of antioxidants in reducing the damage induced by ROS and in preventing the development of certain physio-pathological alterations.



mdpi.com/si/180243

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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