

Special Issue

Oxidative Stress and Rare Diseases

Message from the Guest Editors

Oxidative stress has always constituted a challenging topic in the biomedical field, shifting from pathological aberrant conditions for cell integrity, towards myriad physiological roles which span between health and disease states. It is not surprising that studies based on the production of free radical species, oxidative products (i.e., lipoperoxides, oxidized DNA or RNA bases, oxidized proteins) or impairment in the antioxidant cellular machinery have proliferated in the field of rare diseases, where any little bit of information is especially useful to dissect the complex and often cryptic etiology of these pathologies. Research in rare diseases, as a collective group of pathologies, is also a challenging subject, since they are strikingly different in their genetic, epigenetic or environmental causative agents but share cellular abnormalities and pathological consequences. We invite you to contribute to this Special Issue, in order to compose a diverse and surprising set of experimental data, literature reviews or comments that will boost our understanding of rare diseases from the perspective of oxidative stress, free radicals, and antioxidant molecular pathways.

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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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