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Oxidative-Nitrative Stress in Human Health and Disease

Guest Editor:

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Deadline for manuscript submissions:
closed (31 January 2022)

Message from the Guest Editor

Oxygen- and nitrogen-derived free radicals are produced in various physiological and pathophysiological processes. Oxidative and nitrative stress play a role in several pathological processes, such as chronic inflammatory diseases and cardiovascular morbidities. Various molecular structures modified by oxidative or nitrative stress have been identified as well-measurable potential biomarkers of certain diseases. This may contribute to the development of better diagnostic tools or facilitate clinical treatment algorithms in the future. Furthermore, the possible therapeutic effect of different antioxidant molecules has been proposed, but clinical studies have mostly failed to confirm a universally beneficial effect.

This Special Issue focuses on oxidative and nitrative stress as a physiological regulating mechanism or a possible contributing factor in the development of different pathologies. The Issue will also cover research about possible diagnostic and antioxidant therapeutic approaches. We welcome original research articles of in vitro, animal, or clinical studies, as well as review articles in this topic of broad interest.

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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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