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Oxidative DNA Damage and Repair: Mechanisms, Mutations, and Relation to Diseases

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Deadline for manuscript submissions:

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Message from the Guest Editors

There is fast accumulating evidence that Oxidative DNA damage (ODD) is an important factor in the development of a large variety of pathological conditions. Elevated levels of oxidatively damaged DNA, such as 8-oxoGua, have been measured in a number of pathological conditions, and it has been hypothesized that such damages play a critical role in these conditions. However, there is still no clear understanding of whether the elevated levels of ODD in pathological tissues indicate that it was this damage that led to the pathology, or if it was a mere consequence of abnormal physiological functioning of such tissues.

We cordially invite you to contribute your original research as well as review articles to this Special Issue aimed at critically examining the biological significance of ODD, mechanisms of ODD and its repair, methods of analysis of ODD, its role in mutagenesis and in the development and manifestation of pathological conditions at the molecular, cellular, biochemical, and physiological levels, as well as clinical and pre-clinical research in the field of ODD and the role of oxidative stress in ODD.



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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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