

Special Issue

Oxidative DNA Damage and Mechanism of Aging in Insects

Message from the Guest Editor

Recently, many studies have argued a relationship between oxidative DNA damage and a progression of aging. However, aging studies using mammalian models take longer to obtain a conclusion. On the contrary, insects have an advantage to studies on oxidative DNA damage at the organism level and the mechanism of aging, due to their rapid growth, shorter lifespan, and lower experimental costs. For example, in the fruit fly *Drosophila melanogaster*, the most advanced genetic techniques that facilitate experimental investigation at cellular and organism levels have been established. In the past, this organism has been used in many studies to investigate the mechanisms of DNA repair. Recent studies have identified *Drosophila* orthologs of many essential genes for the repair of DNA damage, including oxidative DNA damage, in other organisms. These findings enhance the value of this organism as a model for investigations on DNA damage repair and aging at the organism level. Manuscripts that deal with genes and proteins related to oxidative DNA damage repair and a relationship between oxidative DNA damage and aging that appears in insects are required for submission in our Special Issue

Guest Editor

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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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