Special Issue

Oxidative Stress in Diabetic Retinopathy

Message from the Guest Editor

Although diabetic retinopathy has a complex etiology, the oxidative stress induced by hyperglycemia is a key factor in retinal damage and diabetic retinopathy development. In fact, many in vitro and in vivo studies have shown the capacity of antioxidants to inhibit, delay or prevent the retinal oxidative damage induced by diabetes. In recent years, new therapeutic strategies have been developed to delay diabetic retinopathy progression in advanced stages; however, damage to retinal blood vessels and neuronal functions in early stages is irreversible. Therefore, a complete understanding of the developmental factors involved and new targets and therapies are needed to prevent or treat retinal damage induced by hyperglycemia. We invite authors to contribute clinical trials, original research articles or reviews papers focused on the role of oxidative stress in the pathogenesis of diabetic retinopathy and the relationship with intercellular communication, systemic influence on the development of diabetic retinopathy, identification of molecular biomarkers for early diagnosis, exploration of new targets, and effective antioxidant and anti-inflammatory therapies.

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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