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Oxidative Stress and Inflammation in Retinal Degeneration

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Deadline for manuscript submissions:
closed (30 September 2020)

Message from the Guest Editors

Robust experimental evidence points to a prominent role for inflammation and oxidative stress in the pathogenesis of many degenerative diseases of the retina. The retina is exposed to high levels of oxidative stress on a consistent basis as a normal consequence of significant light exposure, visual signal transduction pathways that generate considerable amounts of reactive oxygen species, the oxidation of polyunsaturated fatty acids, etc. However, in aging and/or disease, the efficiency of these normal homeostatic mechanisms often declines, disrupting the balance between pro- and anti-oxidative signaling. This contributes to excessive oxidative stress, related inflammation, dysregulated immune responses, potential blood-retinal barrier compromise and tissue damage. As such, this Special Issue welcomes submissions of original research and review articles, and clinical trials related to any aspect of the role of oxidative stress and inflammation in the pathogenesis retinal degeneration, identification and exploration of novel targets, and development and testing of antioxidant and anti-inflammatory therapies.

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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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