

Special Issue

Role of Oxidative Stress in Eye Diseases

Message from the Guest Editor

Oxidative stress is recognized as a key factor in the pathophysiology of numerous eye diseases. The eye is particularly vulnerable to oxidative damage due to its high oxygen consumption, continuous exposure to light, and rich content of polyunsaturated fatty acids. Reactive oxygen species (ROS) disrupt cellular homeostasis, induce lipid peroxidation, and damage proteins and DNA, ultimately contributing to the onset and progression of various ocular disorders. This Special Issue aims to examine the complex role of oxidative stress in the development and progression of eye diseases, including—but not limited to—age-related macular degeneration, diabetic retinopathy, glaucoma, cataracts, and uveitis. We welcome original research articles and comprehensive reviews that explore underlying molecular mechanisms, identify oxidative biomarkers, and assess the efficacy of antioxidants or redox-modulating therapies in promoting ocular health. We encourage the submission of papers that use in vitro, in vivo, and clinical models.

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.

Editor-in-Chief

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