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Retinal Diseases Associated with Oxidative Stress: Advances in Pathophysiology and Therapeutic Approaches

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Deadline for manuscript
submissions:
closed (31 March 2023)

Message from the Guest Editor

The retina is particularly susceptible to oxidative stress due to its high oxygen consumption, its high proportion of polyunsaturated fatty acids and its direct exposure to light. Oxidative stress can lead to impairments in retinal pigment epithelium, endothelial cells, retinal ganglion cells and other structures of the retina.

The functional structure of the retina is key to other processes in addition to visual perception, so it is very important to preserve the integrity of the retina to keep it fully functional. Several studies indicate that oxidative stress plays a significant role in developing and accelerating retinal diseases, including age-related macular degeneration, glaucoma and diabetic retinopathy. Furthermore, patients with retinal diseases exhibit low antioxidant mechanisms or high oxidative stress markers. Recently, new therapeutic strategies targeting oxidative stress have been studied for the treatment of retinal diseases associated with oxidative stress.



mdpi.com/si/82965

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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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