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# Oxidative Stress in Retinal Degeneration

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Deadline for manuscript submissions:
**closed (15 August 2023)**

## Message from the Guest Editors

The retina and retinal pigmented epithelium (RPE) are exposed to high levels of light associated with the activation of phototransduction pathways, and accompanied by very high levels of oxygen consumption and aerobic glycolysis, with the generation of high levels of reactive oxygen species. Owing to the central role of oxidative stresss in retinal pathologies, the therapeutic potential of anti-oxidant molecules is currently subject to intense research.

In this Special Issue, we welcome original research articles and brief reports, reviews, new methods, and clinical trial outcomes that are relevant to better understanding the effects of oxidative stress and metabolic dysfunction on the underlying pathogenesis of retinal degenerations, including (but not limited to) age-related macular degeneration, inherited retinal degenerations, and diabetic retinopathy. This may include studies on underlying cell signalling pathways, clinical imaging, and electrophysiology to identify early signs of oxidative stress and retinal degeneration, as well as potential therapeutic approaches to mitigate or control oxidative stress-induced retinal pathology.

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## Editor-in-Chief

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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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