Special Issue

Oxidative Stress in the Retina Diseases

Message from the Guest Editor

Oxidative stress, which represents an imbalance between the production and elimination of reactive oxygen species (ROS), plays an important role in the pathogenesis of many neurodegenerative diseases, including retinal conditions such as age-related macular degeneration (AMD), diabetic retinopathy, or inherited retinal dystrophies (IRD). Oxidative damage and inflammation are strongly connected in several eye diseases and have been shown in both in vitro and in vivo studies. The retina is exposed to high levels of oxidative stress that could be enhanced by age or pathologies. ROS are one of the main responsible mechanisms of the pathophysiology of retinal degeneration. The prevention of ROS formation and their damage will be an important target for treating these diseases or avoiding their appearance or progression. We welcome submissions of original research, review articles, and clinical trial results related to any aspect of the role of oxidative stress, mitochondrial dysfunction, and inflammation in the pathogenesis of ocular diseases, mainly retinal degeneration, including AMD, IRD, and diabetic retinopathy, the identification of the damage, and therapeutic approaches.

Guest Editor

Dr. Isabel Pinilla

1. Department of Ophthalmology, Lozano Blesa University Hospital, Zaragoza, Spain
2. Aragón Health Research Institute (IIS Aragón), Zaragoza, Spain

Deadline for manuscript submissions

closed (28 February 2022)

Antioxidants

an Open Access Journal by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed

mdpi.com/si/73970

Antioxidants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
antioxidants@mdpi.com

mdpi.com/journal/antioxidants

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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

Prof. Dr. Alessandra Napolitano
Department of Chemical Sciences, University of Naples "Federico II", Via Cintia 4, I-80126 Naples, Italy

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