



Antioxidants and Age-Related Ocular Diseases

Guest Editors:

Prof. Dr. Marialaura Amadio

Section of Pharmacology,
Department of Drug Sciences,
University of Pavia, 27100 Pavia,
Italy

Dr. Adrian Smedowski

Department of Physiology,
Faculty of Medical Sciences in
Katowice, Medical University of
Silesia, Medyków 18, 40-752
Katowice, Poland

Deadline for manuscript
submissions:

closed (31 March 2022)

Message from the Guest Editors

Oxidative stress is a known factor inducing ageing and degeneration, and it is likely involved in the etiopathogenesis of many age-related ocular diseases affecting the retina, optic nerve, or other eye tissues. Indeed, oxidative-stress-induced effects include damage to cellular components; protein aggregation; alteration of metabolism and biochemical processes; activation of signaling cascades linked to stress response, inflammation, and cell death; and changes in the gene or function of enzymes/structural proteins. Accordingly, natural and synthetic molecules acting on the above targets to either counteract oxidative stress or improve protective systems may be of pharmacological interest in contexts featuring elevated oxidative stress.

We invite you to submit your latest original research findings or a review article relating to any of the mentioned topics to this Special Issue, which will contribute in clarifying the role played by the oxidative stress in the molecular and cellular mechanisms underlying age-related ocular pathologies, as well as the relevance of detoxifying endogenous and exogenous factors in eye health and disease.





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Editor-in-Chief

**Prof. Dr. Alessandra
Napolitano**

Department of Chemical
Sciences, University of Naples
"Federico II", Via Cintia 4, I-80126
Naples, Italy

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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Antioxidants Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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