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Antioxidants and Retinal Disease

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Message from the Guest Editors

Increasing evidence attributes a role to oxidative stress in many retinal diseases. Also, increased reactive oxygen species have been reported as a consequence of mutations, or as the triggering mechanism for cell death in different retinal cell types, in experimental disease models, in vivo and in vitro. Human ocular tissue samples have confirmed most of these proposals. More recently, circulating markers have been described and proposed to be useful not only for diagnostic purposes, but also as targeted carriers for deficient molecules, such as antioxidants or enhancers of antioxidant capacity. Despite this accumulated evidence, not enough clear-cut results seem to support antioxidant supplements as therapeutic aids, or the composition and amount of the different molecules in such supplements. Furthermore, bioavailability, distribution and interactions between antioxidant molecules are systematically required to be able to propose natural or artificial antioxidants as preventive or therapeutic strategies for retinal diseases. This Special Issue welcomes submissions related to any aspect of antioxidants and retinal tissue in health and disease.



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Special Issue



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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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