

Special Issue

Retina's Diet and Pharmacological Protection Mechanism

Message from the Guest Editors

The causes and pathophysiological mechanisms leading to dysfunction and death are various and not fully elucidated. Common mechanisms may include oxidative stress, inflammation, mitochondrial dysfunction, growth factors imbalance, and glial cells dysfunction.

A neuroprotective approach may be useful to prevent and/or stop retinal damage. A lot of molecules with potential neuroprotective effects have been investigated in in vitro and in vivo retinal models. These substances tested as promising treatments for retinopathies act with different neuroprotective mechanisms. In addition to medicines, of particular interest are nutraceuticals and dietary supplements, which might be able to rescue inner retina damage.

Guest Editors

Dr. Giovanni Luca Romano

Department of Biomedical and Biotechnological Sciences (BIOMETEC),
Section of Pharmacology, University of Catania, 95124 Catania, Italy

Dr. Lucia Gozzo

Clinical Pharmacology Unit, Regional Pharmacovigilance Centre,
University Hospital of Catania, 95123 Catania, Italy

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

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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