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.

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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.

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