

Special Issue

Ischemic Retinopathies: New Insights into Molecular Mechanisms and Therapeutic Approaches

Message from the Guest Editors

Retinal ischemia is a major cause of visual impairment and is related to various ocular diseases such as diabetic retinopathy, retinopathy of prematurity, retinal vascular occlusion, and acute glaucoma. Growing evidence shows that oxidative stress and inflammatory processes are significant contributors to the pathogenesis of ischemic retinopathies (IRs). In the ischemic retina, the overwhelming production of free radicals leads to neurodegeneration, inflammation, activation of glial cells, and vascular damage. Despite the beneficial effects of currently used therapies (photocoagulation and anti-VEGF therapy), there is a great need to identify novel targets to prevent these ocular pathologies. A better understanding of the molecular mechanisms associated with various IRs can lead to the identification of new therapeutic targets that allow the development of new therapeutic approaches. The purpose of this Special Issue is to highlight recent advances in understanding the molecular mechanisms of IRs and to explore promising new biomolecules and therapeutic strategies for the treatment of IRs. This Special Issue welcomes submissions on various aspects of IRs.

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Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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