

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.

Guest Editors

Dr. Menaka Thounaojam

Department of Ophthalmology, Medical College of Georgia, Augusta University, Augusta, GA 30912, USA

Prof. Dr. Manuela Bartoli

Department of Ophthalmology, Medical College of Georgia, Augusta University, Augusta, GA 30912, USA

Deadline for manuscript submissions

closed (10 September 2021)



Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/55349

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

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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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Prof. Dr. Peter E. Nielsen

Department of Cellular and Molecular Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Blegdamsvej 3C, DK-2200 Copenhagen, Denmark

Prof. Dr. Lukasz Kurgan

Department of Computer Science, Virginia Commonwealth University, Richmond, VA 23284, USA

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