

Special Issue

Macular Edema: Pathogenesis, Diagnosis, and Treatment

Message from the Guest Editors

Macular edema causes visual impairment in various retinal pathologies. Inflammatory, vascular and degenerative factors influence its pathogenesis, persistence and recurrence. The advent of non-invasive high-resolution imaging techniques, especially optical coherence tomography, has made it possible to study in detail a broad spectrum of related retinal diseases, including age-related macular degeneration, diabetic retinopathy, retinal vein occlusions, vitreomacular interface disorders (i.e., macular holes, epiretinal membranes, etc.), retinal detachment, posterior uveitis and inherited retinal dystrophies. New diagnostic instruments can identify biomarkers and clinical signs which are predictive for loss of visual acuity and disease activity. New intravitreal drugs and delivery systems are being applied or studied to treat macular edema, with the aim to reduce recurrences and control retinal damage. The aim of this review is to focalize and underline clinical and experimental research and literature metanalyses related to diagnosis and therapy of macular edema, based on new drugs and imaging techniques.

Guest Editors

Prof. Dr. Simone Donati

Department of Medicine and Surgery, University of Insubria, 21100 Varese, Italy

Prof. Dr. Daniele Veritti

Department of Medicine – Ophthalmology, University of Udine, 33100 Udine, Italy

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Journal of Clinical Medicine
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jcm@mdpi.com

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