



Retinal Imaging: Clinical Applications, Updates and Perspectives

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Deadline for manuscript
submissions:

closed (15 June 2024)

Message from the Guest Editors

Retinal imaging is essential for the diagnosis, monitoring and treatment decisions of retinal diseases. Currently, there are a number of imaging modalities available, including optical coherence tomography (OCT), OCT angiography, autofluorescence, widefield color fundus/fluorescein/indocyanine green imaging or adaptive optics-assisted imaging (OCT, scanning laser ophthalmoscope). These cutting-edge technologies allow the visualization of a wide range of different aspects of the retina from a scale where individual cells are visible up to the depiction of a large field of views covering retinal areas even in the far periphery. Some of these novel imaging systems still require clinical validation to prove their applicability in routine clinical practice, particularly with new treatment modalities on the horizon. The ultimate goal of these imaging advancements is to positively support the clinician's approach for diagnosing and treating various vitreoretinal diseases, including diabetic retinopathy, age-related macular degeneration, retinal vessel occlusions, retinal detachment, uveitis, retinal dystrophies and others.





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Journal Rank: JCR - Q1 (Medicine, General and Internal) / CiteScore - Q1 (General Medicine)

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