



Recent Advances in Ophthalmic Imaging

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Message from the Guest Editors

Ophthalmic imaging plays a crucial role in the diagnosis and treatment of eye diseases. Recently, ophthalmic imaging technologies have improved the accuracy and efficiency of eye examinations. These advancements have led to the development of new and improved imaging modalities, including optical coherence tomography (OCT), ultra-widefield retinal imaging, and adaptive optics imaging.

OCT is a non-invasive imaging technique that uses light waves to produce high-resolution cross-sectional images of the retina. It has become an essential tool for the diagnosis and management of various retinal diseases.

Confocal imaging works by using a laser to produce high-resolution images of the retina and anterior segment of the eye.

Ultra-widefield retinal imaging provides a panoramic view of the retina and has been found to be particularly useful in detecting and monitoring peripheral retinal lesions, which may be missed using traditional fundus photography.

Adaptive optics imaging is a cutting-edge technology that corrects for the distortions caused by the eye's optics, enabling the visualization of individual retinal cells and structures with high resolution.





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