

Special Issue

Advances in Ophthalmic Imaging

Message from the Guest Editor

Ophthalmic imaging technology is a key technical means in ophthalmic diagnosis and treatment, and plays an important role in measuring field of view, corneal curvature and monitoring ophthalmic surgery. Among them, the introduction and development of imaging technologies such as optical coherence tomography (OCT), OCT angiography, fundus fluorescein angiography, fundus and near-infrared autofluorescence, wide-field retinal imaging, corneal topography and ocular ultrasound have greatly improved the morphological and functional assessment. Optical coherence tomography (OCT) is a non-invasive, high-resolution biomedical optical imaging technology that can detect the internal microstructure of biological tissues in vivo. Combined with multi-modal imaging of OCT and other imaging technologies (fluorescence technology, photoacoustic imaging technology, etc.), more comprehensive optical characteristics of the eye diagnosis site can be obtained so as to analyze the structure, function characteristics. Imaging technology has displayed ocular anatomical structures and pathological changes in multiple directions and levels, expanded eye examination and diagnosis methods.

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