



Functional Optical Coherence Tomography (OCT) for Biomedical Application

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Message from the Guest Editor

Dear Colleagues,

Optical coherence tomography (OCT) is one of the most powerful non-invasive imaging techniques which enables high-resolution, cross-sectional imaging of biological tissues. As the OCT technique has advanced, OCT can provide functional information, such as cell/tissue physiology, blood flow, and monitoring of disease progress, beyond structural information. These functional extensions of OCT include Doppler OCT, polarization-sensitive OCT, optical coherence elastography, OCT angiography, spectroscopic OCT, optoretinography, and molecular imaging OCT. This development broadens its application across several medical/biomedical fields, such as ophthalmology, dermatology, cardiovascular research, neurology, and small animal imaging. Additionally, various research studies focus on multimodal imaging development with a combination of OCT and other imaging modalities.

This Special Issue, “Functional Optical Coherence Tomography(OCT) for Biomedical Applications”, will highlight research findings and full reviews on the recent development and/or functional application of OCT.





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Message from the Editor-in-Chief

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