Special Issue

Functional Optical Coherence Tomography (OCT) for Biomedical Application

Message from the Guest Editor

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.

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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