Special Issue

Optical Methods for Tissue Diagnostics

Message from the Guest Editors

The use of non-ionizing radiation offers great promise as a non-invasive medical diagnosis tool. Despite the limited penetration depth in living tissue, optical methods are steadily bridging the gap between radiology and histopathology, due to their sensitivity to molecular, functional and structural content. This Special Issue attempts to cover novel works in tissue diagnostics using optical techniques. Contributions of both human studies and animal models are encouraged using either experimental approaches or analytical methods. The volume is open for innovative contributions involving aspects of the following topics: Molecular spectroscopy and microspectroscopy; Absorption, reflectance, emission and fluorescence spectroscopy; Light–tissue interactions; Optical clearing methods; Tomographic imaging, such as optical coherence tomography, diffuse optical tomography and photoacoustic tomography.

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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.

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