

Special Issue

Applications of Ex Vivo Microscopy in Cancer Detection and Diagnosis

Message from the Guest Editor

Ex vivo microscopy is a set of emerging microscopy methods intended for rapid, high-resolution imaging of excised tissue samples. These modalities have the ability to achieve depth-resolved images of fresh, fixed, and/or optically cleared tissues at microscopic resolution in clinically relevant timeframes. However, the choice of an optimal imaging modality and contrast mechanism is heavily influenced by the particular application to be addressed. This Special Issue aims to highlight the wide diversity in modalities and approaches in the field through their applications in cancer detection and diagnosis. Modalities may include, but are not limited to, optical sectioning microscopies (confocal, multiphoton, structured illumination, and light sheet), optical coherence tomography, photoacoustic microscopy, microscopy with UV excitation, vibrational microscopy, etc. Applications may include, but are not limited to, rapid on-site evaluation of cancer biopsy, surgical tumor margin assessment, primary cancer diagnosis, and rapid 2D or 3D imaging of intact samples.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Cancers is an international online journal addressing both clinical and basic science issues related to cancer research. The journal is publishing in Open Access format, which will certainly evolve to ensure that the journal takes full advantage of the rapidly changing world of information and knowledge dissemination. It publishes high-quality clinical, translational, and basic science research on cancer prevention, initiation, progression, and treatment, as well as other related topics, particularly to capture the most seminal studies in the rapidly growing area of immunology, immunotherapy, and tumor microenvironment.

Editor-in-Chief

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