Special Issue

Biological Imaging in Tumor Microenvironment

Message from the Guest Editor

The tumor microenvironment comprises a heterogeneous population of tumor cells, immune cells, stromal cells, blood vessels, and extracellular matrix. Biological imaging is one of the most effective techniques for studying tumor microenvironments. Aside from the structure and function, the context information of cells obtained from biological imaging enables spatial analysis. Novel cellular patterns to be uncovered via spatial analysis have the potential to provide new insights. Artificial intelligence (AI) methods, such as deep learning, have revolutionized cell segmentation in biological imaging. Currently, AI-powered spatial analysis on biological imaging is an emerging topic in cancer research. This Special Issue aims to cover new advances utilizing spatial analysis techniques on biological imaging, including but not limited to microscopy imaging, fluorescence imaging, and multiplex imaging, for a better understanding of tumor microenvironments and their applications to tumor diagnosis, prognosis, and treatment decision-making.

Guest Editor

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Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to Biomedicines, be it original research, review articles, or developing Special Issues of current key topics.

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