



Biological Imaging in Tumor Microenvironment

Guest Editor:

Dr. Pingjun Chen

Institute for Data Science in
Oncology, The University of Texas
MD Anderson Cancer Center,
1515 Holcombe Blvd, Houston,
TX 77030, USA

Deadline for manuscript
submissions:

31 October 2024

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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Felipe Fregni

1. Neuromodulation Center and
Center for Clinical Research
Learning, Spaulding
Rehabilitation Hospital and
Massachusetts General Hospital,
Harvard Medical School, Boston,
MA 02114, USA
2. Department of Epidemiology,
Harvard T.H. Chan School of
Public Health, Boston, MA 02115,
USA

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within *Scopus*, *SCIE (Web of Science)*, *PubMed*, *PMC*, *CAPLus / SciFinder*, and other databases.

Journal Rank: JCR - Q1 (Pharmacology and Pharmacy) / CiteScore - Q2 (*Medicine (miscellaneous)*)

Contact Us

Biomedicines Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/biomedicines
biomedicines@mdpi.com
X@Biomed_MDPI