Special Issue

Application of Biophysical Techniques to Cellular and Molecular Oncology

Message from the Guest Editors

Dysregulated cellular processes drive malignant transformation, tumor progression, metastasis and response to therapies. Dysregulation can occur at various levels, from single molecules to cell populations. Our mechanistic understanding of these processes has been greatly advanced through interdisciplinary research that applies physical science approaches to the study of biological systems. Playing a key role in this are biophysical approaches that cross multiple spatiotemporal scales, such as microscopy, spectroscopy, single molecule methods, force measurements and molecular modeling. In this Special Issue, we welcome both original research articles and reviews highlighting the use of biophysical techniques that provide new mechanistic insight into oncogenic processes, including but not limited to: a) DNA repair and altered transcription; b) disrupted signal transduction; c) tumor microenvironment and immune cell interactions.

Guest Editors

Dr. Diane S. Lidke

Dr. Jennifer M. Gillette

Prof. Dr. Alessandra Cambi

Deadline for manuscript submissions

closed (31 August 2022)

Cancers

an Open Access Journal by MDPI

Impact Factor 4.4
CiteScore 8.8
Indexed in PubMed

mdpi.com/si/86224

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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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