

Special Issue

Artificial Intelligence and Bioinformatics in Cancer Genomics: Innovations and Applications

Message from the Guest Editors

Cancer remains one of the most complex diseases, requiring interdisciplinary approaches to understand its genetic basis and develop effective therapies. The integration of artificial intelligence (AI) and bioinformatics has significantly advanced cancer genomics research by enabling large-scale data analysis, biomarker discovery, and personalized medicine. AI-driven algorithms and computational techniques assist us in deciphering genomic alterations, predicting treatment responses, and identifying novel therapeutic targets. This Special Issue aims to gather original research articles and reviews that explore the latest advancements in AI and bioinformatics applications in cancer genomics. We encourage submissions covering topics such as the use of machine learning models for genomic data analysis, AI-driven drug discovery, the use of deep learning for cancer subtype classification, and integrative multi-omics approaches. By bringing together experts in AI, bioinformatics, and oncology, this issue will highlight cutting-edge methodologies and their impact on cancer research and clinical applications.

Guest Editors

Dr. Petar Brlek

1. St. Catherine Specialty Hospital, 10000 Zagreb, Croatia
2. School of Medicine, Josip Juraj Strossmayer University of Osijek, 31000 Osijek, Croatia
3. Faculty of Science, Department of Molecular Biology, University of Zagreb, 10000 Zagreb, Croatia

Prof. Dr. Malik Yousef

Department of Information Systems, Zefat Academic College, Zefat 13206, Israel

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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