

Special Issue

Latest Research in Mathematical Modeling in Cancer Research

Message from the Guest Editor

This Special Issue focuses on the application of mathematical and computational techniques across various scientific disciplines, including biology, chemistry, and physics. We are particularly interested in mathematical modeling related to cancer treatment, emphasizing the interaction between cancerous tumors, the immune system, and therapeutic approaches such as chemotherapy and immunotherapy.

The scope of this Special Issue includes mathematical models for various cancer types, including bladder cancer, breast cancer, prostate cancer, liver cancer, brain cancer, and cervical cancer. Research contributions should employ innovative numerical methods, semi-analytical approaches, analytical techniques, or asymptotic methods to analyze these models.

Additionally, this Special Issue welcomes contributions that explore the role of machine learning in cancer research, particularly in handling and analyzing large datasets related to tumor growth, treatment outcomes, and patient responses.

We invite researchers to submit high-quality original work that advances the mathematical and computational understanding of cancer treatment.

Guest Editor

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About the Journal

Message from the Editorial Board

Mathematical and Computational Applications (MCA) is devoted to the dissemination of original research in the field of engineering, natural sciences and social sciences where mathematical and/or computational techniques are necessary for solving specific problems. The aim of the journal is to provide a medium by which a wide range of experience can be exchanged among researchers from diverse fields such as engineering (electrical, mechanical, civil, industrial, aeronautical, nuclear, etc.), natural sciences (physics, mathematics, chemistry, biology, etc.) and social sciences (administrative sciences, economics, political sciences, etc.).

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