Special Issue

Computational Research in Cancer Neuroscience

Message from the Guest Editor

The nervous system is fundamental in regulating tissue development, homeostasis, and regeneration across the body. Recent discoveries have revealed its significant involvement in cancer initiation and progression, with neural–cancer interactions driving tumor growth, invasion, and metastasis. This new field of cancer neuroscience uncovers how neurons and cancer cells communicate. With the advent of machine learning, large language models, omics data analysis, and protein structure modeling, computational approaches offer new insights into these dynamic processes.

This Special Issue welcomes original research and reviews focused on computational modeling of neural–cancer communication, neural influence on tumor microenvironments, predictive analytics for cancer therapies, and computational approaches to protein structure modeling in cancer neuroscience. Collaborative studies integrating neurobiology, oncology, and data science are highly encouraged. We aim to cover foundational discoveries and translational applications that advance our understanding of this new cross-disciplinary field.

Guest Editor

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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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