



Graph Neural Networks in Cancer Research

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Message from the Guest Editors

Dear Colleagues,

The advent of deep learning methods has enriched computer-aided research. Graph neural networks (GNNs) are already showing particular potential in biomedicine. Cancer research is at the forefront of this development, as examples from the fields of automatic detection and segmentation of tumors, prognostication, and anticancer drug design show. Significantly improved software frameworks and increasing computing power have contributed to this progress. GNNs are attracting particular attention due to their wide applicability, visual nature and interpretable decision-making ability. Notable developments include the application of relation-information theory to cancer identification, classification, segmentation and tracking for the optimization of personalized treatment, and the investigation of gene sequences and tumor heterogeneity.

For this Special Issue, we welcome original research articles or comprehensive review articles focusing on GNN-based methods in cancer research. We hope that such a collection will promote the development of GNN-based methods and provide novel tools for the fight against cancer.





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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.

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