

Special Issue

Ontologies and Knowledge Graphs in Cancer Research

Message from the Guest Editors

Cancer research relies on a large number of diverse datasets generated by different omics technologies. Electronic health record data, which are gathered at the point-of-care, are increasingly utilized in pre-clinical and clinical research as well as health management and analyzed in unison with genomic data.

Curation, management, and analysis of these data present unique challenges arising from data heterogeneity, complexity, and size. Ontologies and knowledge graphs are being increasingly adopted to address these issues, and have great potential to support multidisciplinary cancer research efforts.

This Issue will focus on the use of ontologies in the context of cancer research and care, including but not limited to ontology development and evolution, genomic data analysis, ontology-based machine learning and artificial intelligence, semantic data integration using knowledge graphs and other methods, semantic data resources, use of ontologies in translational medicine, and clinical decision support.

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About the Journal

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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