

## Special Issue

# Novel Approaches to Machine Learning and Artificial Intelligence in Cancer Research and Care (2nd Edition)

### Message from the Guest Editors

This Special Issue of *Cancers* will highlight cutting-edge research addressing new strategies to improve the performance and safe clinical translation of machine learning (ML) and artificial intelligence (AI) approaches to oncology research and care. Specifically, we aim to address four key elements of AI/ML development and implementation that will help cancer discovery, driving clinical impact: data, models, evaluation, and systems. Topics of interest regarding data may include new standards for data quality and provenance and opportunities around the inclusion of metadata in model development and implementation. Models may include efficient and interpretable algorithms suitable for deployment in health systems, including deploying and monitoring algorithms enabling accelerated safe deployment across health systems. Regarding model evaluation, we welcome papers presenting new strategies for evaluating ML and AI through clinical trials or ensuring the validity of text-generating tools. From a system perspective, systems for deploying and monitoring algorithms in practice and approaches and standards for flagging model behaviors that may lead to unexpected outcomes are of interest.

### Guest Editors

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### Deadline for manuscript submissions

28 February 2026



## Cancers

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Impact Factor 4.4  
CiteScore 8.8  
Indexed in PubMed



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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.

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### Editor-in-Chief

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