

## Special Issue

# Technological Development for Advances in Cancer Research and Precision Oncology

### Message from the Guest Editors

Innovations in a wide variety of technologies have accelerated cancer research and transformed clinical oncology. Applications of machine learning and advanced bioinformatics have made progressive breakthroughs in high-dimensional data analytics for cancer prediction. Novel methodologies for the isolation and analysis of extracellular vesicles, cell-free DNA/RNA/protein, circulating tumor cells, and molecular typing have emerged for clinical utility in detection and monitoring of cancer. Advances in single-cell profiling, genome editing, three-dimensional printing, and organoid technology have enhanced our understanding of cancer biology and the development of diagnostic tools and therapeutics. Multi-platform molecular analyses along with the development of targeted agents have led to achievement of personalized cancer therapy. Molecular, cellular, and organismal engineering have had a major impact on basic and translational cancer research. Advances in nanotechnology, molecular probes, spectrometry, and cryo-electron microscopy, as well as applications of biosensors, robotics, and radiation sciences, have accelerated the progress against cancer.

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### Guest Editors

Dr. Nelson Yee  
Dr. Ilias Georgakopoulos-Soares  
Dr. Fenglong Ma

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### Deadline for manuscript submissions

closed (31 December 2025)



## Cancers

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## About the Journal

### Message from the Editor-in-Chief

*Cancers* (ISSN 2072-6694) is an international, online journal addressing both clinical and basic science issues related to cancer research. The journal will continue its 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

Prof. Dr. Samuel C. Mok

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