

## Special Issue

# Fitness, Fate and Opportunities in Cancer Evolution

### Message from the Guest Editor

Over the past few decades, scientists and clinicians have uncovered fundamental features of cancer evolution. For example, cancer is driven by genetic mutations and other molecular alterations that confer a selective growth advantage. We have also discovered that tumors are dynamic ecosystems in which cancer cells interact with each other, the stroma, the immune system, and the microenvironment. Although evolutionary theory has illuminated cancer biology, many onco-evolutionary processes remain obscure. Which molecular mechanisms—including genetic, epigenetic, proteomic, metabolic, microenvironmental, and others—impact cancer cell fitness? What are the environmental conditions that determine the fate of a cancer cell lineage? Can we identify therapeutic opportunities arising from cancer evolutionary dynamics? The next generation of studies will utilize interdisciplinary approaches as well as novel technologies and models to delineate cancer evolution. For this Special Issue, we welcome both original research articles and reviews that focus on the cancer evolution of any tumor type, stage, organism, or model.

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### Guest Editor

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### Deadline for manuscript submissions

closed (31 August 2024)



## 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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