

## Special Issue

# Mathematical Oncology: Using Mathematics to Enable Cancer Discoveries

### Message from the Guest Editors

Mathematical modeling is proving to be an invaluable component for the future of oncology. Applications have spanned finding analytic or numerical analysis of first-principles models to agent-based modeling of complex dynamics. These methods are providing essential insights into the underlying cancer biology and identify unique opportunities to cancer prognosis, prediction, treatment planning, and intervention. Moreover, improvements in imaging systems and experimental techniques are providing unparalleled data with which to test, validate, and enhance proposed models. Given the rapid pace of growth seen in this field, many of these advances are being pioneered by early career researchers who are in the process of translating rigorous training into independent investigation. In this Special Issue, we seek to highlight contributions to mathematical oncology with a focus on original research that merges modeling with data.

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### Guest Editors

Dr. Russell Rockne

Dr. Alexander Brummer

Dr. Renee Brady-Nicholls

Dr. Lee Curtin

Dr. Chengyue Wu

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### Deadline for manuscript submissions

closed (31 August 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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