

## Special Issue

# Molecular and Genetic Drivers of Cancer: Organelle Dysfunction, Cancer Stem Cells, and Tumor Progression

### Message from the Guest Editors

Cancer development and progression arise from a complex network of molecular and genetic alterations that influence tumor initiation, evolution, and therapy response. Increasing evidence shows that organelle dysfunction plays a central role in these processes, with mitochondria, the endoplasmic reticulum, lysosomes, microtubules, and cilia shaping metabolism, signaling, proteostasis, and cell fate. In particular, organelle crosstalk, including the ciliary-mitochondrial hub, is emerging as a crucial regulator of both carcinogenesis and tumor suppression. Cancer stem cells further contribute to tumor heterogeneity, metastatic spread, recurrence, and treatment resistance. This Special Issue invites original research and reviews exploring how organelle dysfunction, organelle interactions, and cancer stem cell biology intersect with genomic instability, epigenetic regulation, and tumor progression, with the goal of identifying new biomarkers and therapeutic targets.

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### Guest Editors

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### Deadline for manuscript submissions

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## 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

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