

Special Issue

Genomic and Molecular Profiling in Genitourinary Oncology: Shaping the Future of Diagnosis and Treatment

Message from the Guest Editors

Recent advances in genomic and molecular profiling have revolutionized our understanding of genito-urinary malignancies, identifying distinct molecular subtypes, actionable mutations and predictive biomarkers that are reshaping diagnostic and therapeutic paradigms. The integration of next-generation sequencing, transcriptomic and proteomic analyses and liquid biopsy technologies has provided new insights into tumor evolution, resistance mechanisms and the tumor microenvironment. However, significant challenges remain, including intra-tumoral heterogeneity, evolving resistance mechanisms and the translation of molecular findings into clinically actionable approaches.

This Special Issue invites original research articles, reviews and perspectives focusing on how molecular insights are transforming the current and emerging therapeutic landscape in genito-urinary oncology. We welcome studies addressing molecular classification, novel biomarkers of prognosis or treatment response, mechanisms of resistance and translational strategies that connect and interface laboratory findings to clinical practice and advance precision oncology.

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Message from the Editor-in-Chief

I am honored and enthusiastic to serve as Editor-in-Chief of *Current Oncology*. Since its establishment in 1994, *Current Oncology* has been playing an important role in the advancement of cancer care by disseminating new knowledge in the cancer care continuum. *Current Oncology* is affiliated with several key cancer societies and provides a global platform to share scientific progress in oncology. We strive for high standards and work together to maintain a rigorous and unbiased peer review process to publish high-quality articles. We have an outstanding editorial team which is committed to the success of *Current Oncology*.

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