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## Advances in Genetics and Epigenetics of Bladder Cancer

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### Message from the Guest Editor

Dear Colleagues,

The urinary bladder and the upper urothelial tract are locations of multifocal and recurrent urothelial tumors with or without tumor progression. Since 2004, genetic data have been integrated into the WHO classification, while the Cancer Genome Atlas (TCGA) and a plethora of new techniques to assess genetic changes have provided thought-provoking data. Additionally, epigenetic mechanisms, such as DNA methylation, histone modifications, and its crosstalk, also shape the active and inactive states of the blueprint. Thus, both genetics and epigenetics hold clues to identify novel biomarkers for diagnosis, risk stratification or therapeutic approaches and to explain the development of heterogeneous cancer (cell) phenotypes.

To provide an overview of recent knowledge, this Special Issue will span various topics ranging from genetic and epigenetic changes in early- (carcinoma in situ) and late-stage muscle-invasive bladder cancers (MIBC) over actionable mutation and genetic alterations, such as biomarkers, to mechanisms of controlling histone modifiers in urothelial tumorigenesis, with special emphasis on prognostic and therapeutic options for individual patients.



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# Special Issue



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## Message from the Editor-in-Chief

*Cancers* is an international online journal addressing both clinical and basic science issues related to cancer research. The journal is publishing in 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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