

Special Issue

Exploring Molecular Mechanisms of Prostate Cancer

Message from the Guest Editor

Prostate cancer is a clinically heterogeneous disease with distinct subtypes and molecular pathways involved. Progression to lethality includes genomic and epigenomic alterations affecting androgen receptor (AR), DNA repair, cell cycle, and signaling pathways. Low mutation rates highlight critical drivers of aberrant cell function like AR variants, microRNAs, and tumor-microenvironment interactions. This Special Issue aims to illuminate the key mechanisms underlying prostate cancer development, progression, and resistance. Contributions exploring emerging diagnostics, AR signaling, non-coding RNAs, epigenetic regulation, and tumor ecosystem interplay are encouraged. By integrating genetics, transcriptomics, metabolomics, and therapeutic research insights, it seeks to foster novel strategies to advance precision oncology.

Guest Editor

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