

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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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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