# Special Issue

# Molecular Mechanisms and Biomarker Development in Prostate Cancer

## Message from the Guest Editors

Different biological mechanisms have been associated with the development of prostate cancer, such as alterations in tumor suppressor genes, oncogenes (TP53, RB1, among others), and CDKIs; DNA methylation; chromosomal alterations and rearrangements; changes in PTEN and PI3K/mTOR; global defects in apoptosis; alterations in the androgen receptor (AR); and epigenetic mechanisms. The progress in the elucidation of the genomic, biochemical, and metabolic alterations of prostate cancer at various stages of disease development has promoted the identification of new potential therapeutic targets. This has led to the investigation of novel prostate cancer therapies: in these new therapeutic approaches the element of novelty is represented by the introduction of new drugs or of biomarkers to select patients to be treated. This Special Issue will examine various molecular alterations underlying the development of the prostate, with special emphasis on the development of biomarkers.

## Guest Editors

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## Deadline for manuscript submissions

30 March 2026

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*Cells* has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

## Editors-in-Chief

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