# **Special Issue**

# Conditional Programming of Cells, Advanced Computational Methods, and Intelligent Systems in Prostate Cancer Research

## Message from the Guest Editor

The biology of prostate cancer is shaped not only by genetic alterations but also by the conditions cells encounter in their environment. Recent research has begun to explore how prostate cancer cells respond to controlled cues in culture, such as nutrient changes, hormonal signals, mechanical forces, and targeted molecular stimuli. These condition-dependent behaviors offer insights into tumor progression, treatment resistance, and lineage plasticity. Combined with modern computational approaches, they provide new ways to study how cancer cells shift between different states. This Special Issue highlights studies that integrate conditional cell programming with advances in machine learning, computational biology, and intelligent systems. Relevant topics include cellular responses to defined environmental changes, reversible or statedependent programs, computational models predicting cell-state transitions, and frameworks linking conditionspecific culture data with imaging, pathology, or clinical outcomes. Research using organoids, co-culture systems, or microenvironment-mimicking platforms is also welcome when focused on how conditional cues shape cellular behavior.

### **Guest Editor**

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### Deadline for manuscript submissions

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## Message from the Editorial Board

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.

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