1. Record Nr. UNINA9910910497803321

Autore	Sethi Gautam
Titolo	Prostate Cancer: Molecular Events and Therapeutic Modalities / / edited by Gautam Sethi, Milad Ashrafizadeh, Nasim Ebrahimi
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	9789819746125 9819746124
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (290 pages)
Altri autori (Persone)	AshrafizadehMilad EbrahimiNasim
Disciplina	616.9946306
Soggetti	Cancer - Treatment Medical genetics Cancer Nanomedicine Oncology Epidemiology Genetics - Research Cancer Therapy Clinical Genetics Cancer Nanotechnology Genetics Research
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Anatomy and function of prostate -- Chapter 2. Epidemiology, risk factors and histopathological profile of prostate cancer -- Chapter 3. Prostate cancer and Inflammation -- Chapter 4. Prostate cancer, apoptosis, autophagy and ferroptosis: Cell death mechanisms and their crosstalk -- Chapter 5. Prostate cancer and metastasis: An emphasis on EMT mechanism -- Chapter 6. Prostate cancer and Wnt/STAT3 signaling -- Chapter 7. Prostate cancer and EZH2 signaling -- Chapter 8. Prostate cancer and PTEN/PI3K/Akt/mTOR signaling -- Chapter 9. Prostate cancer and non-coding RNAs: A focus on miRNAs, lncRNAs and circRNAs --

Chapter 10. Prostate cancer and tumor microenvironment -- Chapter 11. Chemoresistance, radioresistance and androgen-deprivation therapy resistance in prostate cancer -- Chapter 12. Plant derived-natural products in treatment of prostate cancer -- Chapter 13. Gene therapy as a new emerging strategy for prostate cancer -- Chapter 14. Nanoparticle-based therapeutic strategies in prostate cancer suppression.

Sommario/riassunto

The book covers the various cell signaling pathways responsible for prostate cancer progression, conventional therapies used for prostate cancer treatment, new emerging therapeutics, and challenges in the treatment of cancer patients. It describes the different molecular pathways responsible for prostate cancer progression to improve readers' knowledge about the role of signaling networks, and cellular and molecular aspects of prostate cancer progression. These topics include mechanisms responsible for prostate cancer malignancy with a focus on molecular pathways. It also discusses the current challenges in prostate cancer treatment such as drug resistance and immune evasion and introduces novel therapeutics such as gene therapy and nanotherapeutics for prostate cancer. This book is completely novel and unique and covers all aspects of prostate cancer progression and challenges in therapy while presenting solutions. Written by prestigious researchers around the world, this book will be interesting to researchers and practitioners, especially those working in urological cancers.