1. Record Nr. UNINA9910451821703321 Autore Kyprianou Natasha Titolo Molecular exploitation of apoptosis pathways in prostate cancer [[electronic resource] /] / Natasha Kyprianou London, : Imperial College Press, 2012 Pubbl/distr/stampa **ISBN** 1-280-66895-4 9786613645883 1-84816-450-5 Descrizione fisica 1 online resource (230 p.) Collana Molecular medicine and medicinal chemistry;; v. 5 Disciplina 616.99463 Soggetti **Apoptosis** Prostate - Cancer - Treatment Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Contents: Preface: Chapter 1 Introduction: Prostate Cancer; Chapter 2 The Prostate Gland Dynamics; Chapter 3 Apoptosis Pathways Signaling Execution of Cancer Cells; 3.1 Cell Choices of Life and Death; 3.1.1 "Classic" apoptosis: 3.1.2 Anoikis: 3.2 Caspases: The Apoptosis Executioners in a Therapeutic Setting; 3.3 The Mitochondrion: A Convenient Cell-Killing Platform; 3.4 Cell Surface Death Receptors and the FAS Ligand; 3.5 Meet the BCL-2 Family: Governors of Cell Survival and Death; 3.6 The Transcriptional Controllers; 3.7 The p53 Tumor Suppressor 3.8 PTEN/PI3K/AKT: The Downstream Intracellular Players 3.9 The Antagonists of Death: Inhibitors of Apoptosis Proteins (IAPs); 3.10 Apoptosis Signaling in the Endoplasmic Reticulum: A Death Platform for Stress; 3.11 The Tumor Microenvironment: Extracellular Forces Control Intracellular Death Outcomes; 3.11.1 Role of hypoxia; 3.11.2 The key growth factors; 3.11.3 Inflammation; Chapter 4 Androgen Receptor-Mediated Apoptosis: Significance in Development of Castration-

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Sommario/riassunto

This book focuses on the functional significance of targeting apoptosis for the treatment of prostate cancer. New concepts on the challenges relating to the development of resistance by androgen-independent tumors are introduced, in terms of the contribution of anoikis and cross-talk of androgens with key growth factor signaling pathways. This volume also provides insightful discussion on the exploitation of the apoptotic and angiogenic synergism towards complete eradication of prostate tumors. Last but not least, it includes reflections on the drug development challenge based on the analysis