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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 Players3.9 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-Resistant Prostate Cancer; 4.1 The Androgen Receptor (AR); 4.2 Androgen Ablation: The Glory and the Failures 4.3 AR Status in Castration-Resistant Prostate Cancer4.4 AR Interactions with Growth Factor Signaling Leads to Apoptosis; 4.4.1 AR connects with EGF; 4.4.2 AR and IGF interactions; 4.4.3 AR and TGF-:

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9.1 Aspirin and Non-Aspirin Nonsteroidal Anti-Inflammatory Drugs (NSAIDs)

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