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Collana	Advances in Experimental Medicine and Biology, , 0065-2598 ; ; 1126
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Soggetti	Cell cycle Molecular biology Cancer research Urology Radiology Cell Cycle Analysis Molecular Medicine Cancer Research Diagnostic Radiology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. The role of imaging in clinical prostate cancer – Overview of Magnetic Resonance Imaging (MRI), Computed Tomography (CT), Dynamic Contrast-Enhanced MRI (DCE-MRI), MR spectroscopic Imaging (MRSI), Photoacoustic Imaging (PAI) -- 2. Automated quantitative cell and tissue imaging technologies -- 3. Diagnostic and early prostate cancer imaging; imaging of advanced prostate cancer -- 4. Emerging radiation techniques -- 5. Radiation therapy and partial prostate irradiation -- 6. Prostate cancer screening: radiology perspectives -- 7. Preclinical imaging of metastasis and dormancy: clinical implications -- 8. Utility of CT in the management of prostate cancer -- 9. Nanotechnology, cancer diagnosis and treatments -- 10. Imaging approaches to distinguish lethal from non-lethal disease -- 11. Photoacoustic imaging -- 12. Molecular and anatomical imaging in drug development -- 13. Molecular imaging modalities including CT,

PET, SPECT, MRI, MRS, Hyperpolarized MRI, Ultrasound, X-ray computed tomography, Fusion Imaging (Molecular/Anatomic) -- 14. Functional imaging (PET vs. SPECT) -- 15. Optical bioluminescence molecular imaging -- 16. Therapeutic radiopharmaceutical translational research imaging -- 17. Accuracy of magnetic resonance imaging for local staging of prostate cancer: diagnostic meta-analysis -- 18. Adjuvant radiotherapy for pathologically advanced prostate cancer: randomized clinical trial -- 19. High-intensity focused ultrasound (HIFU) with histopathological analysis -- 20. Image-directed, tissue-preserving focal therapy of prostate cancer with a novel deformable magnetic resonance-ultrasound (MR-US) registration system -- 21. Focal therapy for localized unifocal and multifocal prostate cancer -- 22. Focal cryotherapy for clinically unilateral, low to intermediate risk prostate cancer -- 23. Impact of obesity on clinico-pathologic outcomes after robot-assisted laparoscopic prostatectomy -- 24. Body mass index, prostate weight and transrectal ultrasound prostate volume accuracy.

Sommario/riassunto

The second of two companion books which address the biology and clinical aspects of prostate cancer. This volume, Prostate Cancer: Molecular & Diagnostic Imaging and Treatment Strategies, discusses both classic and the most recent imaging approaches for detection, early diagnosis and treatment of prostate cancer. The companion title, Cell & Molecular Biology of Prostate Cancer, covers classic and modern cell and molecular biology as well as genetics, epigenetics, mitochondrial dysfunctions and apoptosis, cancer stem cells, angiogenesis, progression to metastasis, and treatment strategies including clinical trials related to prostate cancer. Taken together, these volumes form one comprehensive and invaluable contribution to the literature. .
