

1. Record Nr.	UNINA9910554211503321
Titolo	Medical physics : models and technologies in cancer research // edited by Anna Bajek and Bartosz Tylkowski
Pubbl/distr/stampa	Berlin, Germany ; ; Boston, Massachusetts : , : Walter de Gruyter GmbH, , [2021] ©2021
ISBN	3-11-066230-2
Descrizione fisica	1 online resource (264 pages)
Collana	De Gruyter STEM
Classificazione	XC 3800
Disciplina	610.153
Soggetti	Medical physics Cancer - Research - Technological innovations Cancer - Research
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Frontmatter -- Preface -- Contents -- List of contributing authors -- 1 Personalized and targeted therapies -- 2 Advancements in cancer chemotherapy -- 3 Principles of radiation therapy -- 4 Advanced cell culture techniques for cancer research -- 5 Natural substances in cancer—do they work? -- 6 The application of the natural killer cells, macrophages and dendritic cells in treating various types of cancer -- 7 Non-radioactive imaging strategies for in vivo immune cell tracking -- 8 Present trends in the encapsulation of anticancer drugs -- 9 3D tumor model – a platform for anticancer drug development -- Index
Sommario/riassunto	Modern cancer research is a high-tech undertaking, overlapping with many fields in the physical sciences. These include nanotechnology, engineering, immunology, and bioinformatics. This book focuses on the science and technology underlying the diagnosis and treatment of cancer. The authors offer insights into technologies including radiotherapy, modelling, and drug encapsulation.