

Viral Therapy Of Cancer

Cancer Immunology and Immunotherapy
 Cancer Virus
 Replication-competent Viruses for Cancer Therapy
 Viral Therapy of Cancer
 Molecular Biology of the Cell
 Recent Advances in Cancer Research and Therapy
 Infections Causing Human Cancer
 Measles
 Gene Therapy of Cancer
 Oncolytic Viruses - Genetically Engineering the Future of Cancer Therapy
 Holland-Frei Cancer Medicine
 Harnessing Oncolytic Virus-mediated Antitumor Immunity
 Overcoming Ovarian Cancer Chemoresistance
 Viral Nanoparticles
 Innovative Medicine
 Cancer Cell Lines Part 1
 Cancer Immunosurveillance
 Progress in Cancer Immunotherapy
 Microbiology
 Dynamics Of Cancer: Mathematical Foundations Of Oncology
 Gene Therapy of Cancer
 Gene Therapy of Cancer
 Encyclopedia of Virology
 Human Herpesviruses
 Parvoviruses
 Molecular Biology of Human Cancers
 Nanopharmaceuticals: Principles and Applications Vol. 3
 Immunotherapy of Hepatocellular Carcinoma
 Adenoviral Vectors for Gene Therapy
 Nanobiotechnology in Diagnosis, Drug Delivery and Treatment
 The Genetics of Cancer
 Tumor-Induced Immune Suppression
 Translational Immunotherapy of Brain Tumors
 Oncolytic Viruses
 Microbial Biotechnology
 Gene and Cellular Immunotherapy for Cancer
 Successes and Challenges of NK Immunotherapy
 Principles and Practice of Cancer Infectious Diseases
 Oncoimmunology
 Treatment of Bone and Soft Tissue Sarcomas

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REEVES BRENNAN

Cancer Immunology and Immunotherapy Elsevier

This edited book, is a collection of 25 chapters describing the recent advancements in the application of microbial technology in the food and pharmacology sector. The main focus of this book is application of microbes, food preservation techniques utilizing microbes, probiotics, seaweeds, algae, enzymatic abatement of urethane in fermentation of beverages, bioethanol production, pesticides, probiotic biosurfactants, drought tolerance, synthesis of application of oncolytic viruses in cancer treatment, microbe based metallic nanoparticles, agro chemicals, endophytes, metabolites, antibiotics etc. This book highlighted the significant aspects of the vast subject area of microbial biotechnology and their potential applications in food and pharmacology with various topics from eminent experts around the World. This book would serve as an excellent reference book for researchers and students in the Food Science, Food Biotechnology, Microbiology

and Pharmaceutical fields.

Cancer Virus Cambridge University Press

This book is the third volume on this subject and focuses on the recent advances of nanopharmaceuticals in cancer, dental, dermal and drug delivery applications and presents their safety, toxicity and therapeutic efficacy. The book also includes the transport phenomenon of nanomaterials and important pathways for drug delivery applications. It goes on to explain the toxicity of nanoparticles to different physiological systems and methods used to assess this for different organ systems using examples of in vivo systems.

Replication-competent Viruses for Cancer Therapy Springer Science & Business Media
Successes and Challenges of NK Immunotherapy: Increasing Anti-tumor Efficacy describes the unique therapeutic applications of NK cells to fight cancers and eliminate the bulk and subset of cancer stem cells responsible for metastasis, relapse and recurrences. The book provides information on the development, engineering, mechanisms of action, response to various preclinical models, and applications in various clinical trials. Sections cover the development of

highly engineered cytotoxic NK cells, their mechanisms of action, preclinical and clinical applications, the development and application of CAR-NK cells, and new NK-drug conjugates, also emphasizing that activated NK cells can target and kill highly resistant cancer stem cells. Written by the leading experts on NK immunotherapy worldwide, this is a valuable resource for researchers, clinicians and members of the biomedical field who are interested in understanding novel and efficient therapies to fight cancers. - Discusses the unique developmental applications of NK immunotherapy against cancers, which differs greatly from other types of immunotherapies - Provides up-to-date and highly relevant information through chapters written by the leading researchers in the field - Presents a significant number of schematic diagrams for easy understanding and reproducibility

Viral Therapy of Cancer Springer

This book is the first to summarize the molecular principles of modern viral therapy for cancer. It reviews many of the replication-competent viruses currently being investigated for therapeutic use including herpes simplex virus, adenovirus, reovirus, parvovirus, vaccinia virus and Newcastle

disease virus, and demonstrates how this approach is being translated to the clinic. Illustrating how virus-host interactions can be exploited for therapy, this book opens up new and promising perspectives for the treatment of cancer. It is therefore recommended reading for clinical investigators in the field of oncology, virologists, cancer immunologists and scientists working in regulatory agencies.

[Molecular Biology of the Cell](#) Academic Press

This book aims to provide a guide for virologists, translational researchers, and clinicians in the field of cancer research by providing reference protocols and methodologies from vector development through clinical translation. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, *Oncolytic Viruses: Methods and Protocols* aims to ensure successful results in the further study of this vital field. [Recent Advances in Cancer Research and Therapy](#) Springer Science & Business Media

Presents nanobiotechnology in drug delivery and disease management Featuring contributions from noted experts in the field, this book highlights recent advances in the nano-based drug delivery systems. It also covers the diagnosis and role of various nanomaterials in the management of infectious diseases and non-infectious disorders, such as cancers and other malignancies and their role in future medicine. Nanobiotechnology in Diagnosis, Drug Delivery and Treatment starts by introducing how nanotechnology has revolutionized drug delivery, diagnosis, and treatments of diseases. It then focuses on the role of various nanocomposites in diagnosis, drug delivery, and treatment of diseases like cancer, Alzheimer's disease, diabetes, and many others. Next, it discusses the application of a variety of nanomaterials in the diagnosis and management of gastrointestinal tract disorders. The book explains the concept of nanotheranostics in detail and its role in effective monitoring of drug response, targeted drug delivery, enhanced drug accumulation in the target tissues, sustained as well as triggered release of drugs, and reduction in adverse effects. Other chapters cover aptamer-incorporated nanoparticle systems; magnetic nanoparticles; theranostics and vaccines; toxicological concerns of nanomaterials used in nanomedicine; and more. Provides a concise overview of state-of-the-art nanomaterials and their application like drug delivery in infectious diseases and non-infectious disorders Highlights recent advances in the nano-based drug delivery systems and role of various nanomaterials Introduces nano-based sensors which detect various pathogens Covers the use of nanodevices in diagnostics and theranostics Nanobiotechnology in Diagnosis, Drug Delivery and Treatment is an ideal book for researchers and scientists working in various disciplines such as microbiology, biotechnology, nanotechnology, pharmaceutical biotechnology, pharmacology, pharmaceuticals, and nanomedicine.

[Infections Causing Human Cancer](#) John Wiley & Sons

Die einzelnen Kapitel sind hervorragend recherchiert und von Experten auf dem jeweiligen Gebiet bearbeitet. Insbesondere wird wieder auf die Molekularbiologie eingegangen, die bei diesen Viren einige Besonderheiten aufweist. Das Buch ist auf dem aktuellsten Stand der Forschung. Dies zeigen auch die zitierten Literaturstellen, die im wesentlichen aus den letzten Jahren stammen. So eignet sich dieses Buch insbesondere zum Nachschlagen bestimmter Phänomene und Eigenarten dieser Virusgruppe. Es sollte in keiner Bibliothek eines virologisch Interessierten fehlen.

[Measles](#) World Scientific

The book provides a comprehensive overview of the current state, and the new concepts for the future directions of modern cancer therapy. Bringing together all the relevant aspects from basic and applied science, and the clinical experiences of this new direction in medicine, it is an up-to-date summary of the activities in the field and will be the basis for evaluating future progress in this area.

[Gene Therapy of Cancer](#) Springer

Cancer research is now an interdisciplinary effort requiring a basic knowledge of commonly used terms, facts, issues, and concepts. This interdisciplinary book meets this need, providing an authoritative overview to the field. It presents many of the molecules and mechanisms generally important in human cancers and examines a broad, but exemplary, selection of cancers. In addition, cancer research has now reached a critical stage, in which the accumulated knowledge on molecular mechanisms is gradually translated into improved prevention, diagnosis, and treatment. This book summarizes the state, pitfalls, and potential of these efforts.

[Oncolytic Viruses - Genetically Engineering the Future of Cancer Therapy](#) Springer Nature

In this book, leading experts in cancer immunotherapy join forces to provide a comprehensive

guide that sets out the main principles of oncoimmunology and examines the latest advances and their implications for clinical practice, focusing in particular on drugs with FDA/EMA approvals and breakthrough status. The aim is to deliver a landmark educational tool that will serve as the definitive reference for MD and PhD students while also meeting the needs of established researchers and healthcare professionals. Immunotherapy-based approaches are now inducing long-lasting clinical responses across multiple histological types of neoplasia, in previously difficult-to-treat metastatic cancers. The future challenges for oncologists are to understand and exploit the cellular and molecular components of complex immune networks, to optimize combinatorial regimens, to avoid immune-related side effects, and to plan immunomonitoring studies for biomarker discovery. The editors hope that this book will guide future and established health professionals toward the effective application of cancer immunology and immunotherapy and contribute significantly to further progress in the field.

[Holland-Frei Cancer Medicine](#) Springer Science & Business Media

Bone and soft tissue sarcomas represent only about 2% of all malignancies; however, their treatment - with the goal of curing the patient while preserving the functionality of the affected body part - can, unlike other malignancies, only be successful with therapy concepts devised by interdisciplinary teams. This volume provides an extensive up-to-date overview of the specific diagnostics and current treatment standards of these rare entities, presenting the various limb-sparing modalities for patients with bone and soft tissue sarcomas with special regard to innovative reconstructive options. The evaluation of quality of life based on validated scores and the individual methods of coping with the illness through creative artistic projects are also acknowledged and integrated in the whole concept.

[Harnessing Oncolytic Virus-mediated Antitumor Immunity](#) Springer

Clinical and preclinical exploration of gene and cellular immunotherapy have seen rapid growth and interest with the development and approval of five Chimeric Antigen Receptor T-cell (CAR-T) products for lymphoma and myeloma and one Bispecific T-Cell Engager (BiTE) for acute lymphoblastic leukemia (ALL). These advances have dramatically improved the management of patients with relapsed refractory lymphoma, myeloma and leukemia. Gene and Cellular Immunotherapy for Cancer offers readers a comprehensive review of current cellular and gene-based immunotherapies. Divided into eighteen cohesive chapters, this book provides an in-depth and detailed look into cellular-based immunotherapies including CAR-T, TCR-T, TIL, Viral CTLs, NK cells in addition to T/NK cell engagers, focusing on their historical perspectives, biology, development and manufacturing, toxicities and more. Edited by two leading experts on gene and cellular immunotherapy, the book will feature chapters written by a diverse collection of recognized and up-and-coming experts and researchers in the field, providing oncologists, immunologists, researchers and clinical and basic science trainees with a bench to bedside view of the latest developments in the field.

[Overcoming Ovarian Cancer Chemoresistance](#) Springer

Measles virus, one of the most contagious of all human viruses, has been largely contained by the development and use of a vaccine that was introduced 50 years ago. These two volumes were timed to honor the introduction of the vaccine and to record the enormous advancements made in understanding the molecular and cell biology, pathogenesis, and control of this infectious disease. Where vaccine has been effectively delivered, endemic measles virus transmission has been eliminated. However, difficulties in vaccine delivery, lack of health care support and objection to vaccination in some communities continue to result in nearly 40 million cases and over 300,000 deaths per year from measles.

[Viral Nanoparticles](#) Springer Science & Business Media

In the last decade there has been an explosion of interest in viral therapies for cancer. Viral agents have been developed that are harmless to normal tissues but selectively able to kill cancer cells. These agents have been endowed with additional selectivity and potency through genetic manipulation. Increasingly these viruses are undergoing evaluation in clinical trials, both as single agents and in combination with standard chemotherapy and radiotherapy. This book provides a comprehensive yet succinct overview of the current status of viral therapy of cancer. Chapters coherently present the advances made with individual agents and review the biological and clinical background to a range of viral therapies: structured to proceed from basic science at the bench to the patient's bedside, they give an up-to-date and realistic evaluation of a therapy's potential utility for the cancer patient. Presents state of the art knowledge on how viruses can be, and have been, used in novel therapeutic approaches for the treatment of cancer Describes the use of

viruses as oncolytic agents, killing cells directly Editors are experts in the field, with experience of both laboratory and clinical research Viral Therapy of Cancer is essential reading for both basic scientists and clinicians with an interest in viral therapy and gene therapy.

[Innovative Medicine](#) Springer Science & Business Media

Encyclopedia of Virology, Fourth Edition, Five Volume Set builds on the solid foundation laid by the previous editions, expanding its reach with new and timely topics. In five volumes, the work provides comprehensive coverage of the whole virosphere, making this a unique resource. Content explores viruses present in the environment and the pathogenic viruses of humans, animals, plants and microorganisms. Key areas and concepts concerning virus classification, structure, epidemiology, pathogenesis, diagnosis, treatment and prevention are discussed, guiding the reader through chapters that are presented at an accessible level, and include further readings for those needing more specific information. More than ever now, with the Covid19 pandemic, we are seeing the huge impact viruses have on our life and society. This encyclopedia is a must-have resource for scientists and practitioners, and a great source of information for the wider public. Offers students and researchers a one-stop shop for information on virology not easily available elsewhere Fills a critical gap of information in a field that has seen significant progress in recent years Authored and edited by recognized experts in the field, with a range of different expertise, thus ensuring a high-quality standard

[Cancer Cell Lines Part 1](#) John Wiley & Sons

Adenoviral Vectors for Gene Therapy, Second Edition provides detailed, comprehensive coverage of the gene delivery vehicles that are based on the adenovirus that is emerging as an important tool in gene therapy. These exciting new therapeutic agents have great potential for the treatment of disease, making gene therapy a fast-growing field for research. This book presents topics ranging from the basic biology of adenoviruses, through the construction and purification of adenoviral vectors, cutting-edge vectorology, and the use of adenoviral vectors in preclinical animal models, with final consideration of the regulatory issues surrounding human clinical gene therapy trials. This broad scope of information provides a solid overview of the field, allowing the reader to gain a complete understanding of the development and use of adenoviral vectors. - Provides complete coverage of the basic biology of adenoviruses, as well as their construction, propagation, and purification of adenoviral vectors - Introduces common strategies for the development of adenoviral vectors, along with cutting-edge methods for their improvement - Demonstrates noninvasive imaging of adenovirus-mediated gene transfer - Discusses utility of adenoviral vectors in animal disease models - Considers Federal Drug Administration regulations for human clinical trials

[Cancer Immunosurveillance](#) John Wiley & Sons

Continuous cell lines derived from human cancers are the most widely used resource in laboratory-based cancer research. The first 3 volumes of this series on Human Cell Culture are devoted to these cancer cell lines. The chapters in these first 3 volumes have a common aim. Their purpose is to address 3 questions of fundamental importance to the relevance of human cancer cell lines as model systems of each type of cancer: 1. Do the cell lines available accurately represent the clinical presentation? 2. Do the cell lines accurately represent the histopathology of the original tumors? 3. Do the cell lines accurately represent the molecular genetics of this type of cancer? The cancer cell lines available are derived, in most cases, from the more aggressive and advanced cancers. There are few cell lines derived from low grade organ-confined cancers. This gap can be filled with conditionally immortalized human cancer cell lines. We do not know why the success rate for establishing cell lines is so low for some types of cancer and so high for others. The histopathology of the tumor of origin and the extent to which the derived cell line retains the differentiated features of that tumor are critical. The concept that a single cell line derived from a tumor at a particular site is representative of tumors at that site is naïve and misleading.

[Progress in Cancer Immunotherapy](#) Springer Science & Business Media

Infections must be thought as one of the most important, if not the most important, risk factors for cancer development in humans. Approximately 15-20% of all cases of cancer around the world are caused by viruses. The establishment of a causal relationship between the presence of specific infective agents and certain types of human cancer represents a key step in the development of novel therapeutic and preventive strategies. In this book, Professor zur Hausen (Nobel Prize in Physiology/Medicine 2008) provides a thorough and comprehensive overview on carcinogenic infective agents -- viruses, bacteria, parasites and protozoans -- as well as their corresponding transforming capacities and mechanisms. The result is an invaluable and instructive reference for

all oncologists, microbiologists and molecular biologists working in the area of infections and cancer. The author was among the first scientists to reveal the cervical cancer-inducing mechanisms of human papilloma viruses and isolated HPV16 and HPV18, and, as early as 1976, published the hypothesis that wart viruses play a role in the development of this type of cancer.

Microbiology John Wiley & Sons

Overcoming Ovarian Cancer Chemoresistance presents non-overlapping review chapters that discuss the state of the field in overcoming chemoresistance of ovarian cancer and treatment options before and following recurrence, considering the genetic makeup of the ovarian cancer patient and her tumor. With the uptake of both germline and somatic gene testing, clinicians can obtain a more comprehensive understanding of ovarian tumors and this book provides information

to link the genetic makeup of a tumor (or patient) with the best available treatment. The book discusses topics such as strategies to fight chemo-resistance in ovarian cancer, circulating DNA as a monitor of response, BRCA mutations, ovarian cancer stem cells, immunotherapy and vaccines. Additionally, it brings a list of promising agents at clinical and pre-clinical stage that will impact the treatment in the near future. This book is a valuable source for cancer researchers, oncologists and several members of biomedical field who need to understand how to battle chemoresistance in ovarian cancer. Provides a comprehensive view of both biological and genetic determinants of resistance, as well as technical approaches to monitor response Discusses genetic reversions as a unique alteration and a new field of study Includes a chapter on upcoming and promising agents

that are in the pre-clinical and early clinical space, to set the stage for future directions in the field

Dynamics Of Cancer: Mathematical Foundations Of Oncology Elsevier

Oncolytic viruses (OVs) have emerged as a promising anticancer treatment. OVs selectively infect, replicate in, and kill tumor cells. Oncolytic viral therapy occurs in two phases: an initial phase where the virus mediates direct oncolysis of tumor cells, and a second phase where an induced post-oncolytic immune response continues to mediate tumor destruction and retards progression of the disease. For a long time, the therapeutic efficacy was thought to depend mainly on the direct viral oncolysis based on their tumor selective replication and killing activities. But the post-oncolytic anti-tumor activity induced by the OV therapy is also a key factor for an efficient therapeutic activity. The topic addresses various strategies how to optimize OVs anti-tumor activity.