Cancer Research And Therapeutics Journal

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Protein Kinase Inhibitors as Sensitizing Agents for Chemotherapy Academic Press
Cancer can affect people of all ages, and approximately one in three people are estimated to be diagnosed with cancer during their lifetime. Extensive research is being undertaken by many different institutions to explore potential new therapeutics, and biomaterials technology is now being developed to target, treat and prevent cancer. This unique book discusses the role and potential of biomaterials in treating this prevalent disease. The first part of the book discusses the fundamentals of biomaterials for cancer therapeutics. Chapters in part two discuss synthetic vaccines, proteins and polymers for cancer therapeutics. Part three focusses on theranosis and drug delivery systems, whilst the final set of chapters look at biomaterial therapies and cancer cell interaction. This extensive book provides a complete overview of the latest research into the potential of biomaterials for the diagnosis, therapy and prevention of cancer. Biomaterials for cancer therapeutics is an essential text for academics, scientists and researchers within the biomedical industry, and will also be of interest to clinicians with a research interest in cancer therapies and biomaterials. A complete overview of the latest research into the potential of biomaterials for the diagnosis, therapy and prevention of cancer Discusses the fundamentals of biomaterials for cancer therapeutics Discusses synthetic vaccines, proteins and polymers for cancer therapeutics

New Findings in Translational Science, Prevention, and Treatment Springer Science & Business Media
March 07-08, 2019 Barcelona, Spain Key Topics : Cancer Cell Biology,Organ-Defined Cancers,Cancer Metastasis,Cancer Genetics,Tumour Immunology,Cancer Metabolomics,Targeted Cancer Therapy,Stem Cell Therapy,Cancer Biomarkers,Cancer Science, Cancer : Alternative Medicine,Cancer Case Reports,Cancer Therapeutics and Novel Approaches,Cancer Nanotechnology,Cancer Management and Prevention,Cancer Pharmacology,Cancer Therapy,Tumor virology,Radiation Oncology,Oncology Nursing,Cancer Biopsy,Cancer Diagnosis and Screening,Cancer: Mode of Existence,Surgical Oncology

A Light of Hope at the End of the Tunnel Academic Press
In anticipation of the opening of the H. Lee Moffitt Cancer Center and Research Institut~ on the campus of the University of South Florida, an international symposium, "The First Annual H. Lee Moffitt Symposium on Cancer Biology and Therapeutics" was held in Tampa, Florida on January 20-22, 1986. In this first symposium we decided to present a broad-based series of topics dealing with the major issues in the field of cancer. These topics ranged from the biochemistry of the cancer cell to the design of antineoplastic agents, through tumor cell heterogeneity, treatment of ltuman neoplasms to immunological aspects of cancer biology and tr~atment. The speakers chosen represented individuals of international acclaim who are very active in the area of cancer research and treatment. The symposium brought together scien tists/physicians from six nations including Austria, Canada, France, Hungary, West Germany, and of course, the United States. The congeniality of the participants promoted the friendly exchange of knowledge which, it is hoped, will greatly hasten the time when successful management of human cancer will become routine. Future symposia in this series will be highly focused and will deal with a single facet of this vast field of cancer research and treatment. Joseph G. Cory, Editor Andor Szentivanyi, Editor University of South Florida, 1986 V ACKNOWLEDGMENTS This volume presents the Proceedings of the H. Lee Moffitt International Syn~osium on Cancer Biology and Therapeutics which was held in Tampa, Florida on January 20, 21, and 22, 1986.

Proceedings of 32nd Euro Congress on Cancer Science & Therapy 2019 Oxford University Press, USA
Patients with advanced cancer may develop a number of clinical complications related to tumor progression or a variety of aggressive treatments. The majority of these patients are elderly, often with multiple co-morbidities that require appropriate assessment and management. In the palliative stage of their disease, patients undergo a progressive transition from active acute care to community-based hospice care. This transition requires modification in the diagnostic tests, monitoring procedures and pharmacological treatments to adjust them to the palliative and short-term nature of the care. Internal Medicine Issues in Palliative Cancer Care looks at internal medicine through a prognosis-based framework and provides a practical approach to maximizing comfort and quality of life while minimizing aggressive investigations and therapies for patients with life-limiting disease. Forty-six common internal medicine conditions are

organized into nine clinical categories: pulmonary, cardiovascular, nephrologic and metabolic, gastrointestinal, hematologic, infectious, endocrine, rheumatologic, and neuro-psychiatric. This evidence-based resource is ideal for educating clinicians delivering palliative care to cancer patients in acute care facilities about complex internal medicine problems, decision-making regarding diagnostics and therapeutics which require a good understanding of state-of-the-art internal medicine and palliative care principles.

Surviving Cancer Academic Press

Advances in Cancer Research provides invaluable information on the exciting and fast-moving field of cancer research. This thematic volume looks at "Applications of viruses for cancer therapy". With outstanding and original reviews, this volume covers topics such as Cancer Terminator Viruses and Approaches for Enhancing Therapeutic Outcomes, esign of improved oncolytic adenoviruses, and Adenovirus-based immunotherapies for cancer. Provides invaluable information on the exciting and fast-moving field of cancer research This thematic volume looks at "Applications of viruses for cancer therapy" Outstanding and original reviews

RNA Delivery Function for Anticancer Therapeutics Journal of Cancer Research and TherapeuticsRadioguided Surgery

Autophagy in Immune Response: Impact on Cancer Immunotherapy focuses on the status and future directions of autophagy with respect to different aspects of its interaction with the immune system and immunotherapy. The book takes scientific research in autophagy a step further by presenting reputable information on the topic and offering integrated content with advancements in autophagy, from cell biology and biochemical research, to clinical treatments. This book is a valuable source for cancer researchers, oncologists, graduate students and several members of biomedical field who are interested in learning more on the relationship between autophagy and immunotherapies. Presents updated knowledge on autophagy at the basic level and its potential use in cancer treatment Offers the first book to cover autophagy at the interface of cell biology, immunology and tumor biology Provides a wealth of information on the topic in a coherent and comprehensive collection of contributions by world renowned scientists and investigators

Cancer Nanotechnology Academic Press

Here in a single source is a complete spectrum of ideas on the development of new anticancer drugs. Containing concise reviews of multidisciplinary fields of research, this book offers a wealth of ideas on current and future molecular targets for drug design, including signal transduction, the cell division cycle, and programmed cell death. Detailed descriptions of sources for new drugs and methods for testing and clinical trial design are also provided. One work that can be consulted for all aspects of anticancer drug development Concise reviews of research fields, combined with practical scientific detail, written by internationally respected experts A wealth of ideas on current and future molecular targets for drug design, including signal transduction, the cell division cycle, and programmed cell death Detailed descriptions of the sources of new anticancer drugs, including combinatorial chemistry, phage display, and natural products Discussion of how new drugs can be tested in preclinical systems, including the latest technology of robotic assay systems, cell culture, and experimental animal techniques Hundreds of references that allow the reader to access relevant scientific and medical literature Clear illustrations, some in color, that provide both understanding of the field and material for teaching

Cancer Epidemiology and Prevention Academic Press

The complexity of cancer demands an integrated approach from both a cancer biology standpoint and a pharmaceutical basis to understand the different anticancer modalities. Current research has been focused on conventional and newer anticancer modalities, recent discoveries in cancer research, and also the advancements in cancer treatment. There is a current need for more research on the advances in cancer therapeutics that bridge the gap between basic research (pharmaceutical drug development processes, regulatory issues, and translational experimentation) and clinical application. Recent promising discoveries such as immunotherapies, promising therapies undergoing clinical trials, synthetic lethality, carbon beam radiation, and other exciting targeted therapies are being studied to improve and advance the studies of modern cancer treatment. The Handbook of Research on Advancements in Cancer Therapeutics serves as a comprehensive guide in modern cancer treatment by combining and merging the knowledge from both cancer biology and the pharmacology of anticancer modalities. The chapters come from multi-disciplinary backgrounds, including scientists and clinicians from both academia and various industries, to discuss nascent personalized therapies and big data-driven cancer treatment. While highlighting topic areas that include cancer prevention, cancer therapeutics, and cancer treatments through the lenses of technology, medicine/drugs, and alternate therapies, this book is ideally intended for oncologists, radiation oncologists, surgical oncologists, and cancer biologists, along with practitioners, stakeholders, researchers, academicians, and students who are interested in understanding the most fundamental aspects of cancer and the available therapeutic opportunities.

Advances in Radiation Oncology Springer

Oncothermia is the next generation medical innovation that delivers selective, controlled and deep energy for cancer treatment. The basic principles for oncothermia stem from oncological hyperthermia, the oldest approach to treating cancer. Nevertheless, hyperthermia has been wrought with significant controversy, mostly stemming from shortcomings of controlled energy delivery. Oncothermia has been able to overcome these insufficiencies and prove to be a controlled, safe and efficacious treatment option. This book is the first attempt to elucidate the theory and practice of oncothermia, based on rigorous mathematical and biophysical analysis, not centered on the temperature increase. It is supported by numerous in-vitro and in-vivo findings and twenty years of clinical experience. This book will help scientists, researchers and medical practitioners in understanding the scientific and conceptual underpinnings of oncothermia and will add another valuable tool in the fight against cancer. Professor Andras Szasz is the inventor of oncothermia and the Head of St Istvan University's Biotechnics Department in Hungary. He has published over 300 papers and lectured at various universities around the world. Dr. Oliver Szasz is the managing director of Oncotherm, the global manufacturer and distributor of medical devices for cancer treatment used in Europe & Asia since the late 1980s. Dr. Nora Szasz is currently a management consultant in healthcare for McKinsey & Co.

Handbook of Research on Advancements in Cancer Therapeutics John Wiley & Sons

Overview coming soon.

Handbook of Research on Natural Products and Their Bioactive Compounds as Cancer Therapeutics ConferenceSeries

Invasive bladder tumors affect the muscle wall, and have a propensity to metastasize and spread to other areas of the body, and are more likely to be fatal. This book presents state-of-the-art diagnoses and treatments available for bladder cancer that has metastasised into the body. A thorough review of current practice is presented in a full color volume with more than 40 tables and 50 illustrations. The book offers a comprehensive review of the subject, covering epidemiology, screening, diagnostic factors, surgery, chemotherapy and post-operative monitoring. Most chapters are jointly written by a basic researcher and a clinician.

Targeted Cancer Therapies, From Small Molecules to Antibodies Academic Press
Showcasing the expertise of top-tier specialists who contributed to the newly released guidelines for the care of thrombosis in cancer patients, this exciting guide was written and edited by members of the American Society of Clinical Oncology panel, (ASCO), on the prevention and treatment of cancer-associated thrombosis, among others, and provides

Evolution and Innovation Woodhead Publishing Limited
This book concisely reviews important advances in radiation oncology, providing practicing radiation oncologists with a fundamental understanding of each topic and an appreciation of its significance for the future of radiation oncology. It explores in detail the impact of newer imaging modalities, such as multiparametric magnetic resonance imaging (MRI) and positron emission tomography (PET) using fluorodeoxyglucose (FDG) and other novel agents, which deliver improved visualization of the physiologic and phenotypic features of a given cancer, helping oncologists to provide more targeted radiotherapy and assess the response. Due consideration is also given to how advanced technologies for radiation therapy delivery have created new treatment options for patients with localized and metastatic disease, highlighting the increasingly important role of image-guided radiotherapy in treating systemic and oligometastatic disease. Further topics include the potential value of radiotherapy in enhancing immunotherapy thanks to the broader immune-stimulatory effects, how cancer stem cells and the tumor microenvironment influence response, and the application of mathematical and systems biology methods to radiotherapy.

Diagnosis, Prevention and Therapy John Wiley & Sons
Advances in Cancer Research, Volume 139, provides invaluable information on the exciting and fast-moving field of cancer research. Original reviews are presented on a variety of topics relating to the rapidly developing intersection between nanotechnology and cancer research, with unique sections in the new release focusing on Exosomes as a theranostic for lung cancer, Nanotechnology and cancer immunotherapy, Ultrasound imaging agents and delivery systems, Dendronized systems for the delivery of chemotherapeutics, Thermosensitive liposomes for image-guided drug delivery, Supramolecular Chemistry in Tumor Analysis and Drug Delivery, Gold nanoparticles for delivery of cancer therapeutics, and Single cell barcode microchip for cancer research and therapy. Provides the latest information on cancer research Offers outstanding and original reviews on a range of cancer research topics Serves as an indispensable reference for researchers and students alike

Molecular Cancer Therapeutics Elsevier
Significance of Stem Cells to Tumor Development Cancer stem cells remain a controversial topic and the criteria that define cancer stem cells are continuing to evolve. A recent surge in stem cell research has ignited a field of discovery into many human diseases including diabetes, neuropathologies, and cancer. By replacing specific differentiated cells that have either been lost or died, stem cell therapy proves to be a very promising approach to the treatment of many debilitating diseases. Though stem cells may provide therapeutic benefit under certain conditions, they are also often implicated in the initiation, progression, and therapeutic resistance of malignant disease. This first edition of Stem Cells and Cancer is intended to give a current perspective on the role of stem cells in cancer and strategies for novel therapies directed toward tumor stem cells. The current cancer stem cell hypothesis is presented in several chapters with distinctions made between the hierarchical and stochastic models of tumor cell development. "Stemness," self-renewal, pluripotency, clonality, and tumorigenicity are important concepts applied towards defining cancer stem cells. Signaling pathways such as Wnt, Sonic Hedgehog, Notch, and Bmi-1 that are involved in differentiation, proliferation, and survival are implicated in the malignant process. Additional chapters address the identification of cancer stem cell populations through the evaluation of molecular markers such as CD133, CD44, and CD24, for example, or by Hoescht dye exclusion to recognize ‘ side populations. ’ Mesenchymal and hematopoietic stem cells are described as well as mouse models that are employed to elucidate the properties and functionality of stem cells in cancer and the stem cell niche. This book encompasses a wide variety of human cancers that include but are not limited to leukemia, gliomas, breast, and prostate cancers. Resistance to conventional therapies, genetic versus epigenetic changes that affect therapeutic response and strategies to prevent disease recurrence are challenges have been incorporated into this volume. Stem Cells and Cancer represents a compendium of cutting edge research by experts in the field and will be instrumental in the study of this intriguing line of investigation for many years to come. Rebecca Bagley is a senior scientist at Genzyme Corporation and has worked in the biotechnology industry for 20 years with degrees in biology from Wellesley College and Harvard University. Her expertise in drug development spans a wide range of approaches including immunotherapies, gene and protein therapies, and small molecule delivery with publications in journals such as Molecular Cancer Therapeutics, Cancer Research, and Microvascular Research . Her current research focuses on stem cells, tumor vasculature, and target validation. Dr. Beverly A. Teicher is Vice President of Oncology Research at Genzyme Corporation. Dr. Teicher completed a PhD in Bioorganic Chemistry at the Johns Hopkins University and postdoctoral training at Yale University School of Medicine. Dr. Teicher joined Dana-Farber Cancer Institute as an Assistant Professor of Pathology and rose to Associate Professor of Medicine and Radiation Therapy, Harvard Medical School at Dana-Farber Cancer Institute and Joint Center for Radiation Therapy. Dr. Teicher is an active member of the international scientific community having authored or co-authored more than 400 scientific publications. She has edited eight books, is senior editor for the journal Clinical Cancer Research and is series editor for the Cancer Drug Discovery and Development book series.

Natural Products for Cancer Prevention and Therapy John Wiley & Sons
Systemic Drug Delivery Strategies: Delivery Strategies and Engineering Technologies in Cancer Immunotherapy, Volume 2 examines the challenges of delivering immuno-oncology therapies, focusing specifically on the multiple technologies of affective drug delivery strategies. Immuno-oncology (IO) is a growing field of medicine at the interface of immunology and cancer biology leading to development of novel therapeutic approaches, such as chimeric antigen receptor T-cell (CAR-T) and immune checkpoint blockade antibodies, that are clinically approved approaches for cancer therapy. Although currently approved IO approaches have shown tremendous promise for select types of cancers, broad application of IO strategies could even further improve the clinical success, especially for diseases such as pancreatic cancer, brain tumors where the success of IO so far has been limited. This volume of Delivery Strategies and Engineering Technologies in Cancer Immunotherapy discusses methods of targeting tumors, CRISPR technology, and vaccine delivery among many other delivery strategies. Systemic Drug Delivery Strategies: Delivery Strategies and Engineering Technologies in Cancer Immunotherapy, Volume 2 creates a comprehensive treaty that engages the scientific and medical community who are involved in the challenges of immunology, cancer biology, and therapeutics with possible solutions from the nanotechnology and drug delivery side. Comprehensive treaty covering all aspects of immuno-oncology (IO) Novel strategies for delivery of IO therapeutics and vaccines Forecasting on the future of nanotechnology and drug delivery for IO

Progress Against Cancer CRC Press
A practical guide for the treatment of common diseases, this updated edition includes the very latest information. It covers the treatment of disease by drug therapy and uses case studies to illustrate the application of the principles discussed

Strategies for Drug Discovery and Development IGI Global
Cancer affects people of all ages, and approximately one in three people are estimated to be diagnosed with cancer during their lifetime. Extensive research is being undertaken by many different institutions to explore potential new therapeutics, and biomaterials technology is being developed to target, treat, and prevent cancer. This book discusses the role and potential of biomaterials in treating this prevalent disease. The first part of the book discusses the fundamentals of biomaterials for cancer therapeutics. Part Two discusses synthetic vaccines, proteins, and polymers for cancer therapeutics. Part Three focusses on theranosis and drug delivery systems, while the final set of chapters look at biomaterial therapies and cancer cell interaction. A complete overview of the latest research into the potential of biomaterials for the diagnosis, treatment, and prevention of cancer Discusses how the properties of specific

biomaterials make them important in cancer treatment Discusses synthetic vaccines, proteins, and polymers for cancer therapeutics

New Technologies in Cancer Diagnostics and Therapeutics CRC Press

Advances in Cancer Research, Volume 137, the latest release in this ongoing, well-regarded serial provides invaluable information on the exciting and fast-moving field of cancer research. This volume presents original reviews on research bridging oncology and gene expression, with this volume covering unconventional approaches to modulating the immunogenicity of tumor cells, tumor dormancy and immunoediting, the emerging role of anti-apoptotic Bcl-2 family proteins in chemoresistance, Beclin-1 and autophagy, MDA-7/IL-24, and nanotechnology and medicine. Provides information on cancer research Offers outstanding and original reviews on a range of cancer research topics Serves as an indispensable reference for researchers and students alike

Small Molecules in Oncology IGI Global

Infections are among the most frequent complications in patients with hematological malignancies and in those undergoing high-dose chemotherapy and autologous hematopoietic stem cell transplantation. A profound knowledge on the epidemiology, diagnostic approaches, treatment modalities and prophylactic strategies is essential for the clinical management of these complications in patients who are often severely immunocompromised owing to their underlying diseases and in particular, the intensive myelosuppressive chemo and immunotherapy. This textbook provides a clinically oriented, compact and up-to-date overview on infections in hematology patients and their management. The typical pathogens to be considered in different subgroups of patients are identified and further aspects of the microbiological background are explored. Clinical, imaging, and laboratory-based diagnostic techniques are discussed and therapeutic strategies appropriate to different situations are then presented, with due attention to the pitfalls, toxicities and interactions that can arise during antimicrobial treatment. Strategies to prevent infection are also outlined, encompassing antimicrobial prophylaxis, isolation procedures, hospital hygiene, protective immunization and the use of hematopoietic growth factors.