

Anticancer Treatments And Cardiotoxicity Mechanism

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Cardiac Complications of Cancer Therapy Elsevier
 DNA Repair and Cancer Therapy: Molecular Targets and Clinical Applications, Second Edition provides a comprehensive and timely reference that focuses on the translational and clinical use of DNA repair as a target area for the development of diagnostic biomarkers and the enhancement of cancer treatment. Experts on DNA repair proteins from all areas of cancer biology research take readers from bench research to new therapeutic approaches. This book provides a detailed discussion of combination therapies, in other words, how the inhibition of repair pathways can be coupled with chemotherapy, radiation, or DNA damaging drugs. Newer areas in this edition include the role of DNA repair in chemotherapy induced peripheral neuropathy, radiation DNA damage, Fanconi anemia cross-link repair, translesion DNA polymerases, BRCA1-BRCA2 pathway for HR and synthetic lethality, and mechanisms of resistance to clinical PARP inhibitors. Provides a comprehensive overview of the basic and translational research in DNA repair as a cancer therapeutic target Includes timely updates from the earlier edition, including Fanconi Anemia cross-link repair, translesion DNA polymerases, chemotherapy induced peripheral neuropathy, and many other new areas within DNA repair and cancer therapy Saves academic, medical, and pharma researchers time by allowing them to quickly access the very latest details on DNA repair and cancer therapy Assists researchers and research clinicians in understanding the importance of the breakthroughs that are contributing to advances in disease-specific research

Anticancer Treatments and Cardiotoxicity Elsevier Health Sciences
 The application of magnetic resonance spectroscopy (MRS) to the cardiovascular system is a relatively new phenomenon. Its ability to noninvasively examine myocardial metabolism has led to its use to answer basic questions in animal models of normal and diseased myocardium. Extension of these investigations into the realm of human myocardial metabolism has been made possible by the advent of relatively high-field magnets with spectroscopy capabilities and sufficient bore dimensions to allow human studies. While ongoing and future studies promise to enhance our understanding of myocardial metabolism, their success will, in part, depend on a thorough understanding of the technical and biologic aspects of cardiovascular MRS, as well as the current state of research in the many areas encompassed by this discipline. It is with concept that the present monograph has been written. The organization and content should lend this book to both the beginning reader who is interested but not conversant in cardiovascular MRS, as well as to the active investigator who wishes to refer to a volume that deals with the many issues of this field in a concise but complete manner. The monograph is structured with a general overview of the field, followed by a section addressing the technical issues of cardiovascular MRS. The next section is devoted to biologic issues of both normal and abnormal myocardial metabolism, primarily devoted to investigations employing phosphorus-31. This is followed by a section dealing with more specialized issues, generally involving other nuclei such as protons, carbon, and sodium. Finally, the clinical applications of cardiovascular MRS are addressed.

Advances in Precision Medicine Oncology Springer
 Pediatric cancer develops in 1 to 500 children. Typically, the type of cancers that develop in children is different than those that develop in adults, in that they are often the result of a DNA mutation rather than environmental or lifestyle risk factors. Leukemia, brain and central nervous system tumors, and neuroblastomas are the most common cancer types in child populations. Children tend to respond better to anticancer treatments, including chemotherapy and radiation. However, long-term side effects are common in children, often requiring follow-up care and lifestyle intervention for the rest of their lives. The percentage of 5-year survivors was over 50% for the most common cancers. This suggests that a majority of cancers in this population are highly survivable. As such, research should focus on aspects of survivorship for these individuals.

This book will explore issues related to pediatric cancer and their associated treatments.
Cardio-Oncology Elsevier Health Sciences
 The treatment of patients with advanced malignancies has undergone remarkable change in the last few years. While in the past decisions about systemic therapy were largely based on the performance status of a patient, oncologists today also take into account the pathological and molecular characteristics of the patient's tumor. Targeting specific molecular pathways important for tumorigenesis has become the preferred way of treatment for many types of malignancies. With these advances come new challenges including the optimization of therapy, recognizing and dealing with side effects and, importantly, the development of resistance. This book provides an up-to-date overview of the advances and limitations of targeted therapy for several tumor entities including breast cancer, colon cancer, gastrointestinal stromal tumors, lung cancer, melanoma, ovarian cancer and renal cell carcinoma. Written by over a dozen internationally renowned scientists, the book is suitable for advanced students, postdoctoral researchers, scientists and clinicians who wish to update their knowledge of the latest approaches to targeted cancer therapies.

Cardiotoxicity of Oncologic Treatments John Wiley & Sons
 Western drugs and target medicines for disease treatment come with undesirable side effects that have limited their use in patients for an extended period of time. It is warranted to develop a treatment strategy with alternative medicines to reduce toxicity relating to drugs, in particular, cancer drugs. Thus, a combination therapy with herbal medicines provides a more effective treatment method for hard-to-treat diseases. The recent breakthroughs in naturally occurring small molecules from herbal medicines have provided experimental evidence and are clinically significant in treatment strategies. This unique volume presents the recent developments in the field of herbal medicines for the treatment of diseases and cancer. Recent progress on small molecules isolated from herbal medicines that exhibit therapeutic benefits in humans is highlighted. The book provides an overview of the significant discoveries and pioneering contributions of herbal medicines in combination with other drugs; the author's evaluation of the combination therapy in cancer treatment; and a recent discovery of crocodile tissue extract with pharmacological properties.

Cardiovascular Complications in Cancer Therapy Academic Press
 Recent advances in precision medicine and immuno-oncology have led to highly specific and efficacious cancer therapies such as monoclonal antibodies and immune checkpoint inhibitors (ICIs). This book provides an up-to-date overview of advances in the field of immuno-oncology. Chapters cover such topics as ICIs and how they mount a robust immune response against cancer cells as well as the response of ICIs to treatment predictive biomarkers and their potential immune-related adverse events (irAEs). Additionally, the book includes a comprehensive review of the powerful FDA-approved therapeutic agent doxorubicin, highlighting the molecular mechanisms behind doxorubicin's drug resistance and critical side effects.

Immunotherapy Springer Publishing Company
 Cardiac complications of cancer treatment present a complex challenge in the care of patients with cancer. Chemotherapy, targeted therapies, radiation, and transplantation can cause life-threatening cardiac effects, sometimes years after completion of therapy, and patients may have preexisting cardiac disease or risk factors that further affect heart function.
Cardiotoxicity of Oncologic Treatments BoD - Books on Demand
 Co-edited and written by an interdisciplinary team of experts in oncology and cardiology, this book is a clinically useful resource on these overlapping topics: • Cardiac complications in patients receiving cancer therapy • The treatment of cancer in patients with cardiovascular disease • The treatment of cardiovascular disease in patients with cancer When relevant to medical practice, epidemiology and basic science are also included in the discussion and each chapter is written by an oncologist and a cardiologist. Additionally, the chapters follow a similar format to make the

book truly interdisciplinary, user-friendly, and clinically applicable to specialists and non-specialists who care for patients with both cancer and cardiovascular disease.
SITC's Guide to Managing Immunotherapy Toxicity Springer
 The possibility of getting a cardiovascular disease or cancer increases with advancing age. At the same time, relevant improvements in cancer therapy have resulted in the improvement of quality of life and the increase of the survival rate of such patients. As a result we have larger number of patients that experience the cardiac side effects of chemotherapy. The extent of cardiotoxicity is variable, depending on the type of drug used, combination with other drugs, prior mediastinal radiotherapy and the presence of cardiovascular risk factors or history of heart disease. Early detection of the patients proneness for developing cardiotoxicity is the key issue to decrease morbidity and mortality. It also facilitates more tailored therapeutic interventions. Therefore, the collaboration and interaction of cardiology and oncology may contribute to reducing the cardiovascular adverse effects and improving the results in the treatment of patients with cancer.

Cancer and the Heart Academic Press
 Mitochondria are crucial organelles for any cell type. Mitochondria take responsibility for not only energy production but also regulation of cell death, also called apoptosis; calcium storage; and heat production. Therefore, mitochondrial disease is implicated in the mode of action of many harmful factors for cells such as drugs and environmental contaminants, dysfunction of the oxygen transport system, malnutrition, intense exercise, and genetic variations. This book presents up-to-date knowledge about mitochondrial disease and its complex relation to some diseases such as cardiac failure, cancer, and Alzheimer's and Parkinson's diseases. This book will, therefore, be essential for readers who are interested in life sciences, especially in medicine.

Cardiotoxicity Academic Press
 Advances in Cancer Research, Volume 150, the latest release in this ongoing series, covers the relationship(s) between autophagy and senescence, how they are defined, and the influence of these cellular responses on tumor dormancy and disease recurrence. Specific sections in this new release include Autophagy and senescence, converging roles in pathophysiology, Cellular senescence and tumor promotion: role of the unfolded protein response, autophagy and senescence in cancer stem cells, Targeting the stress support network regulated by autophagy and senescence for cancer treatment, Autophagy and PTEN in DNA damage-induced senescence, mTOR as a senescence manipulation target: A forked road, and more. Addresses the relationship between autophagy and senescence in cancer therapy Covers autophagy and senescence in tumor dormancy Explores autophagy and senescence in disease recurrence
Holland-Frei Cancer Medicine BoD - Books on Demand
 Early recognition and management of adverse effects of cancer treatments are essential for optimal care of patients with cancer, and drastically different approaches are required for different physiologic reactions. Handbook of Cancer Treatment-Related Symptoms and Toxicities is a focused, one-stop resource that enables clinicians to quickly find up-to-date, reliable information needed at the point of care. The high-yield approach prioritizes the most common toxicities associated with cancer treatment, and concise, templated chapters offer fast access to information needed in day-to-day practice. Presents a user-friendly overview of cancer treatment-related symptoms and toxicities management in a practical, easy-to-use format, allowing you to quickly find information in one convenient, concise resource. Covers systemic and radiation therapies, including chemotherapy, immunotherapy, targeted therapies, and radiation therapy, detailing symptoms of each toxicity to confirm your diagnosis. Overviews pharmacologic and non-pharmacologic approaches to symptom management. Offers recommendations for mitigating toxicities in high-risk patients. Discusses key topics such as management of infusion reactions, when the need for biopsy is warranted, and the unique challenges posed by novel immunotherapies.

Heart Failure: A Companion to Braunwald's Heart Disease E-Book Springer Nature

The field of immuno-oncology continues to rapidly evolve as new insights to fight and treat cancer emerge. The fourth edition of Immunotherapy provides the most current overview of immuno-oncology in different cancer types and toxicities associated with immunotherapy. While immunotherapy has revolutionized the treatment landscape of several solid malignancies, several challenges still exist. Only a subset of patients derive clinical benefits; some do not respond at all, and others respond initially, only for their disease to progress later. Because these drugs can activate a broad range of immune cells, patients suffer from a unique set of side effects known as immune-related adverse events. As more immunotherapeutic agents are used in the clinic, it is important to provide updates about current and ongoing developments in the field to further research efforts and inform treatment decisions. The fourth edition will have a new focus on strategies to overcome the challenges associated with immunotherapy. Chapters will discuss topics such as biomarkers of response, resistance mechanisms, role of imaging in predicting immune-related adverse events, and management of immune-related adverse events. Written by leading experts conducting cutting-edge research, readers will gain up-to-date knowledge on the current state and future of immunotherapy.

Anticancer Drug Development Karger Medical and Scientific Publishers

Up-to-date, authoritative and comprehensive, Heart Failure, 4th Edition, provides the clinically relevant information you need to effectively manage and treat patients with this complex cardiovascular problem. This fully revised companion to Braunwald's Heart Disease helps you make the most of new drug therapies such as angiotensin receptor neprilysin inhibitors (ARNIs), recently improved implantable devices, and innovative patient management strategies. Led by internationally recognized heart failure experts Dr. G. Michael Felker and Dr. Douglas Mann, this outstanding reference gives health care providers the knowledge to improve clinical outcomes in heart failure patients. Focuses on a clinical approach to treating heart failure, resulting from a broad variety of cardiovascular problems. Covers the most recent guidelines and protocols, including significant new updates to ACC, AHA, and HFSA guidelines. Covers key topics such as biomarkers and precision medicine in heart failure and new data on angiotensin receptor neprilysin inhibitors (ARNIs). Contains four new chapters: Natriuretic Peptides in Heart Failure; Amyloidosis as a Cause of Heart Failure; HIV and Heart Failure; and Neuromodulation in Heart Failure. Covers the pathophysiological basis for the development and progression of heart failure. Serves as a definitive resource to prepare for the ABIM's Heart Failure board exam. 2016 British Medical Association Award: First Prize, Cardiology (3rd Edition).

Cardiovascular Magnetic Resonance Spectroscopy Springer Nature

Get a quick, expert overview of the latest clinical information and guidelines for cancer checkpoint inhibitors and their implications for specific types of cancers. This practical title by Drs. Fumito Ito and Marc Ernstoff synthesizes the most up-to-date research and clinical guidance available on

immune checkpoint inhibitors and presents this information in a compact, easy-to-digest resource. It's an ideal concise reference for trainee and practicing medical oncologists, as well as those in research. Discusses the current understanding of how to best harness the immune system against different types of cancer at various stages. Helps you translate current research and literature into practical information for daily practice. Presents information logically organized by disease site. Covers tumor immunology and biology; toxicities associated with immune checkpoint inhibitors; and future outlooks. Consolidates today's available information on this timely topic into one convenient resource.

Cardiovascular Toxicity and Therapeutic Modalities Targeting Cardio-oncology Springer

Research to Advanced Study analyzes the emerging field of cardio-oncology, reviewing recent advancements in the field, discussing how to monitor and treat cancer survivors for cardiotoxicity, and identifying potential cardiac side effects in novel cancer therapies. By adopting a translational approach, the book first comprehensively covers the basic science, mechanisms and concepts, which is followed by advanced state-of-art of cardio-oncology. Other sections cover tyrosine kinase inhibitors, Anthracyclines, and biomarkers in cardiotoxicity induced by chemotherapeutic drugs, noninvasive cardiovascular imaging techniques, radiotherapy induced cardiovascular, and more. Anti-cancer treatment is associated with serious cardiovascular adverse events, including arterial and pulmonary hypertension, supraventricular and ventricular arrhythmias, systolic and diastolic cardiac dysfunction and coronary artery disease. Progress in cancer therapy over the past decades improved long-term survival but increased cancer therapy-related cardiotoxicity. Both traditional chemotherapeutic agents and newer therapies have demonstrated profound cardiovascular toxicities. It is important to understand the mechanisms of these toxicities to establish strategies for the prevention and management of complications—arrhythmias, heart failure, and even death. Adopts a translational approach and comprehensively covers the basic science, mechanisms and concepts of cardio-oncology Outlines the current knowledge of biomarkers in cancer therapy-related cardiotoxicity Provides an understanding of the mechanisms of cardiovascular toxicity of various therapies that may lead to the identification of novel targets to reduce vascular complications

Medicinal Plants BoD – Books on Demand

The book begins with the basic science behind the medical applications of the knowledge:

cardiovascular biology, pathways, and their relationship to cancer treatment and principles of chemotherapy and immunotherapy. The second section consists of an overview and classification of anti-cancer drugs and a look at their cardiotoxicity. The third section looks at cardiac imaging in the cancer patient, including cardiac ultrasound, Doppler imaging, nuclear imaging, magnetic resonance imaging, and computed tomography in the cancer patient. In section four, management of cardiac disease in the cancer patient is discussed, including cardiac rhythm disturbances and heart failure. Cardiac emergencies and interventions are described as is preoperative assessment

of the cancer patient for non- cardiovascular surgery. The final section includes a range of topics such as the pericardium, cardiovascular effects of endocrine treatments, primary cardiac tumors and malignancies of the myocardium and pericardium. Cardiac monitoring during clinical trials and pulmonary concerns are also addressed, as are psychosocial, social, economic, and legal issues of the cancer patient with heart disease.

Immune Checkpoint Inhibitors in Cancer PMPH-USA

Cancer Treatment: Conventional and Innovative Approaches is an attempt to integrate into a book volume the various aspects of cancer treatment, compiling comprehensive reviews written by an international team of experts in the field. The volume is presented in six sections: i) Section 1: Cancer treatment: Conventional and innovative pharmacological approaches; ii) Section 2: Combinatorial strategies to fight cancer: Surgery, radiotherapy, backytherapy, chemotherapy, and hyperthermia; iii) Section 3: The immunotherapy of cancer; iv) Section 4: Multidisciplinary in cancer therapy: nutrition and beyond; v) Section 5: Supportive care for cancer patients; vi) Section 6: Perspectives in cancer biology and modeling. Ultimately, we hope this book can enlighten important issues involved in the management of cancer, summarizing the state-of-the-art knowledge regarding the disease control and treatment; thus, providing means to improve the overall care of patients that daily battle against this potentially lethal condition.

Chemotherapy and Biotherapy Guidelines and Recommendations for Practice Springer

Holland-Frei Cancer Medicine, Ninth Edition, offers a balanced view of the most current knowledge of cancer science and clinical oncology practice. This all-new edition is the consummate reference source for medical oncologists, radiation oncologists, internists, surgical oncologists, and others who treat cancer patients. A translational perspective throughout, integrating cancer biology with cancer management providing an in depth understanding of the disease An emphasis on multidisciplinary, research-driven patient care to improve outcomes and optimal use of all appropriate therapies Cutting-edge coverage of personalized cancer care, including molecular diagnostics and therapeutics Concise, readable, clinically relevant text with algorithms, guidelines and insight into the use of both conventional and novel drugs Includes free access to the Wiley Digital Edition providing search across the book, the full reference list with web links, illustrations and photographs, and post-publication updates

Autophagy and Senescence in Cancer Therapy World Scientific

This is the definitive, one-stop resource on preclinical drug evaluation for potential mitochondrial toxicity, addressing the issue upfront in the drug development process. It discusses mitochondrial impairment to organs, skeletal muscle, and nervous systems and details methodologies used to assess mitochondria function. It covers both in vitro and in vivo methods for analysis and includes the latest models. This is the authoritative reference on drug-induced mitochondrial dysfunction for safety assessment professionals in the pharmaceutical industry and for pharmacologists and toxicologists in both drug and environmental health sciences.