Personalised cancer medicine Colorectal cancer (CRC) is a major global health challenge as the third leading cause for cancer related mortalities worldwide. Despite advances in therapeutic strategies, the five-year survival rate for CRC patients has remained the same over time due to the fact that patients are often diagnosed in advanced metastatic stages. Drug resistance is another common reason for poor prognosis. Researchers are now developing advanced therapeutic strategies such as immunotherapy, targeted therapy, and combination nanotechnology for drug delivery. In addition, the identification of new biomarkers will potentiate early stage diagnosis. This book is the first of three volumes on recent developments in colorectal diagnosis and therapy. Each volume can be read on its own, or together. Each volume focuses on different novel therapeutic advances, biomarkers, and identifies therapeutic targets for treatment. Written by leading international experts in the field, coverage also addresses the role of diet habits and lifestyle in reducing gastrointestinal disorders and incidence of CRC. Chapters discuss current and future diagnostic and therapeutic options for colorectal cancer patients, focusing on immunotherapeutic, nanomedicine, biomarkers, and dietary factors for the effective management of colon cancer.

Targeted Therapies for Solid Tumors Countless medical researchers over the past century have been occupied by the search for a cure of cancer. So far, they have developed and implemented a wide range of treatment techniques, including surgery, chemo- and radiotherapy, antiangiogenic drugs, small molecule inhibitors, and oncolytic viruses. However, patterns of these treatments' effectiveness remain largely unclear, and a better understanding of how cancer therapies work has become a key research goal. Cancer Treatment in Silico provides the first in-depth study of approaching this understanding by modeling cancer treatments, both mathematically and through computer simulations. The main goal of this book is to help expose students and researchers to in silico methods of studying cancer. It is intended for both the applied mathematics and experimental oncology communities, as mathematical models are playing an increasingly important role to supplement laboratory biology in the fight against cancer. Written at a level that generally requires little technical background, the work will be a valuable resource for scientists and students alike.

Analysis of Socioeconomic Factors and Hong Kong Chinese Females' Usage of Targeted Therapy This book contextualizes translational research and provides an up to date progress report on therapies that are currently being targeted in lung cancer. It is now well established that there is tremendous heterogeneity among cancer cells both at the inter- and intra-tumoral level. Further, a growing body of work highlights the importance of targeted therapies and personalized medicine in treating cancer patients. In contrast to conventional therapies that are typically administered to the average patient regardless of the patient’s genotype, targeted therapies are tailored to patients with specific traits. Nonetheless, such genetic changes can be disease-specific and/or target specific; thus, the book addresses these issues manifested in the somatically acquired genetic changes of the targeted gene. Each chapter is written by a leading medical oncologist who...
specializes in thoracic oncology and is devoted to a particular target in a specific indication. Contributors provide an in-depth review of the literature covering the mechanisms underlying signaling, potential cross talk between the target and downstream signaling, and potential emergence of drug resistance.

**Anticancer Drugs**

**Advances in Targeted Cancer Therapy** This new volume updates the reader on selected areas of targeted therapy in breast cancer, with special emphasis on chemoprevention strategies, drug resistance, biomarkers, combination chemotherapy, angiogenesis inhibition and pharmacogenomics in the context of clinical efficacy. This selected review of targeted therapies will guide the reader on effective treatment as part of an integrated programme of patient management.

**Take Control of Your Cancer** Each chapter will focus on the known molecular characteristics of specific childhood cancers, focusing on how the molecular ‘drivers’ can be exploited from a therapeutic standpoint with currently available targeted agents. Where applicable, integration of targeted therapies with conventional cytotoxic agents will be considered. This volume will provide a comprehensive summary of molecular characteristics of childhood cancers, and how the changes involved in transformation provide us with opportunities for developing relatively less toxic, but curative, therapies.

**Targeted Therapy in Translational Cancer Research** This book represents an up-dated summary of the state of the art of the characterization of cancer stem cell/cancer initiating cell (CSC/CIC) properties. An overview of the definition and biological properties of CSCs/CICs as well as the role of these cells in determining the resistance to standard and immune-based therapies is provided. It also discusses limitations in the achievement of a definitive biological characterization of CSCs/CICs due to their high extent of plasticity and heterogeneity that is also mutually driven by the interaction of these cells with the tumor microenvironment. The limitations in targeting CSCs/CICs with immunotherapy are also explained together with explorative combination approaches that could increase the susceptibility of these cells to the recognition by immune cells. This book is conceived for a broad audience, including students, teachers, scientific experts. The critical revision of available results in terms of immunological profile of CSCs/CICs and the efficacy in targeting these cells by immunological approaches, results in a comprehensive and up to date recapitulation of the field and provides interesting suggestions on how to focus future investigations in order to assess the role of CSCs/CICs as prognostic and predictive biomarkers of responsiveness to therapies for cancer patients.

**Targeted Therapy of Acute Myeloid Leukemia** The advancements in molecular marker discovery, genomics, transcriptomics and proteomics in recent years have enabled researchers to develop targeted therapies against cancers. Cancer research and management is multi-disciplinary and multimodal. In addition to conventional chemotherapy and radiotherapy, targeted immunotherapy has also provided considerable success in the clinic. There is also scientific evidence on the impact of alternative therapies on cancer patients. Modern Cancer Therapies and Traditional Medicine: An Integrative Approach to Combat Cancers summarizes the general aspects of cancer therapy and management. Chapters cover cancer medicine in two broad sections, the book presents comprehensive information on a diverse range of cancer treatments. The first section covers conventional molecular oncology and therapy including targeted therapies, immunotherapies, cancer signaling pathways and the use of computational techniques. The second section focuses on traditional methods of treatment including the role of nutrition, traditional medicine, Yoga and Ayurveda in cancer prevention and management. The book is an accessible update of the state of the art in cancer diagnostics and therapy for students and academicians at all levels.

**Adjuvant Therapy for Breast Cancer** YSC’s newly updated Metastatic Navigator: A Young Woman’s Guide to Living with Metastatic Breast Cancer presents the most up-to-date information on metastatic breast cancer including: treatment options; quality of life issues; communicating with healthcare providers, family and friends about your disease; lists of questions to ask or consider; and resources available for additional assistance. Other topic areas include hospice, palliative care, the decision to end treatment, legal decisions and other information for end-of-life planning, legacy projects, speaking to children about metastatic breast cancer, complementary and alternative medicine; and adoption and fertility.
Anticancer Drugs This book provides an unprecedented overview of “Targeted Therapies” for acute myeloid leukemias. It aims at an almost comprehensive coverage of the diverse therapeutic strategies that have been developed during the last decade and are now being evaluated in early clinical trials. Paired and authoritative chapters by leading research scientists and clinicians explain basic concepts and clinical translation of topics that include the underlying genetic and proteomic abnormalities of AML, the development of novel nucleoside analogues, the roles of microRNAs, apoptosis regulators Bcl-2 and p53 and of critical cell signaling proteins such as PIM, FLT3, Raf/MEK, PI3K/AKT/mTOR and aurora kinases. Chapters on epigenetic mechanisms, nuclear receptors, cell surface antigens, the hypoxic leukemia microenvironment, stem cells and leukemia metabolism provide insights into leukemia cell vulnerabilities. Cell therapies utilizing T-, NK- and mesenchymal stem cells and progress in hematopoietic transplantation strategies round up this overview of the multi-dimensional therapeutic landscape in which leukemia specialists develop treatment strategies that are expected to make "leukemia history" in the near future.

A Beginner’s Guide to Targeted Cancer Treatments Cancer is a common disease with a devastating impact on the physical and psychological well being of patients. The diagnosis of cancer brings upon many clinical challenges and questions for which clear and simple answers are not always provided by modern medicine. To date, only limited therapeutic options are available for patients with advanced cancer. The recent shift toward targeted therapies has improved substantially patient’s survival, however, relapses are frequent and cure remains rare. This led patients and many health care managers to shift attention to the holistic approach of traditional medicine particularly preparations from herbal products to manage and alleviate the disease. Typically, herbal preparations contain single or multiple plant ingredients, including a number of potential active components. Yet, they remain classified as food supplements and thus are exempt from regulations on quality control and proof of efficacy that govern standard pharmaceuticals. Clinical evidence for many preparations is often based on non-documented or anecdotal evidence. In consequence, several preparations with unproven efficacy are circulating in the market with the fear of interference with standard cancer therapies and/or severe toxicity that some can generate, in addition to the unjustified economical burden to patients. Despite inconsistent and conflicting clinical results single molecules have been isolated from herbal preparations and many are exploited to develop potential novel agents. This has fostered the need to organize a set of timely, in-depth and up-to-date review covering the latest developments in alternative cancer management from a scientific and clinical perspective dedicated to the medical community and health care providers, as well as to patients and their families. This book brings the latest comprehensive cancer information and practical recommendations on the best documented practice of alternative therapies for cancer management put together by recognized experts in the fields of medical oncology, traditional medicine, and cancer pharmacology. It goes hand-in-hand with the patient’s medical treatment options, quality of life issues, and more. The book is organized into four major sections: The first is an overview of the cancer syndrome by renowned medical oncologists from the USA and Germany. The second is a comprehensive description of traditional medicine by renowned experts from China and Germany. The third is an overview on the pharmacological impact of herb-based formulations on standard chemotherapy agents used in clinical practice. The fourth is a survey of cases reports from several hospitals with approved practice of alternative medicine. The book will feature simple definitions and essential information grouped in both medical and lay-term terminology, and straightforward illustrations related to human physiology, disease definition, scientific data on know and potential mechanisms of action, and preventive approaches. Finally, the book will feature collaboration of experts from China, India, USA, Canada, Germany, France, and other centres with recognized expertise in alternative/traditional medicine. This international cooperation is crucial to cover the complex topic of alternative therapies for cancer.

Targeted Cancer Therapy Breast cancer is the most common cancer type in women worldwide, with around 1.5 million new cases diagnosed every year. Despite the high incidence, advances in detection and treatment in recent years mean that more women than ever are surviving breast cancer, with an 89% 5-year survival rate in Western countries. Although men can also be affected, male breast cancer is very rare, accounting for less than 1% of all cancer in men. Advances in molecular subtyping of breast cancer and the development of targeted therapies have greatly impacted breast cancer survival rates, and many clinical trials are now underway to determine the best therapeutic strategy for those with different types of breast cancer, as well as in the pre- and post-surgical setting. Although breast cancer risk increases greatly with age, around 7% of all cases occur in women under 40, and there are unique issues facing younger women with breast cancer, such as long-term treatment effects and the impact on fertility. As people are living longer with breast cancer, clinicians are increasingly recognizing the impact of disease prognosis and treatment on quality of life, with ongoing efforts aimed at defining the optimal treatment strategy for individual patients. This book
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aims to highlight the latest progress in breast cancer risk profiling, detection and treatment, as well as the long-term issues faced by those surviving breast cancer.

Spotlight on Breast Cancer The past decades have seen major developments in the understanding of the cellular and molecular biology of cancer. Significant progress has been achieved regarding long-term survival for the patients of many cancers with the use of tamoxifen for treatment of breast cancer, treatment of chronic myeloid leukaemia with imatinib, and the success of biological drugs. The transition from cytotoxic chemotherapy to targeted cancer drug discovery and development has resulted in an increasing selection of tools available to oncologists. In this Special Issue of Pharmaceuticals, we highlight the opportunities and challenges in the discovery and design of innovative cancer therapies, novel small-molecule cancer drugs and antibody-drug conjugates, with articles covering a variety of anticancer therapies and potential relevant disease states and applications. Significant efforts are being made to develop and improve cancer treatments and to translate basic research findings into clinical use, resulting in improvements in survival rates and quality of life for cancer patients. We demonstrate the possibilities and scope for future research in these areas and also highlight the challenges faced by scientists in the area of anticancer drug development leading to improved targeted treatments and better survival rates for cancer patients.

Cancer Treatments Cancer Pain Management, Second Edition will substantially advance pain education. The unique combination of authors -- an educator, a leading practitioner and administrator, and a research scientist -- provides comprehensive, authoritative coverage in addressing this important aspect of cancer care. The contributors, acknowledged experts in their areas, address a wide scope of issues. Educating health care providers to better assess and manage pain and improve patients' and families' coping strategies are primary goals of this book. Developing research-based clinical guidelines and increasing funding for research is also covered. Ethical issues surrounding pain management and health policy implications are also explored.

Modern Cancer Therapies and Traditional Medicine: An Integrative Approach to Combat Cancers Treatment strategies for breast cancer are wide-ranging and often based on a multi-modality approach, depending on the stage and biology of the tumour and the acceptance and tolerance of the patient. They may include surgery, radiotherapy, and systemic therapy (endocrine therapy, chemotherapy, and targeted therapy). Advances in technologies such as oncoplastic surgery, radiation planning and delivery, and genomics, and the development of novel systemic therapy agents alongside their evaluation in ongoing clinical trials continue to strive for improvements in outcomes. In this Special Issue, we publish a collection of studies looking at all forms of therapeutic strategies for early and advanced breast cancer, focusing on their outcomes, notably survival.

Targeted Therapies in Breast Cancer 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.

Combination Cancer Therapy Translational medicine has opened the gateway to the era of personalized medicine. No longer a one-size-fits-all approach, the treatment of cancer is now based on an understanding of underlying biologic mechanisms and is increasingly being tailored to the molecular specificity of a tumor. Translational Oncology: Targeted Therapy in Translational Cancer Research provides a comprehensive overview of the pertinent molecular discoveries in the cancer field and explains the clinical ramifications and utility of these on targeted cancer therapies. Beginning with a chapter introducing the “Bench to Bedside and Back” paradigm, an overview is presented of the exponential growth in the field of translational medicine, including historical perspectives and recent
progress. Following the introduction, subsequent chapters review the progress of targeted therapy within three major categories: hematological malignancies, solid tumors, and hereditary cancers. Each of these categories comprises a single chapter with subsections that discuss specific cancer types. Following this is a chapter on targeted and functional imaging that reviews progress in the different modalities of anatomical and molecular imaging used to complement targeted therapy. The next chapter discusses the need to combine individual agents with existing therapies or in novel combinations in order to overcome drug resistance. Following this is a chapter presenting the challenges in drug development and the selection of targets for cancer therapeutics. The final chapter offers perspectives on personalized medicine and presents future challenges in the investigation of optimal combinations and the identification of biomarkers that can provide both predictive and prognostic information for tailoring targeted therapies to individual patients.

Treatment Strategies and Survival Outcomes in Breast Cancer Cancer rates continue to skyrocket, and the overall survival rate for Stage IV cancer patients in the United States is a grim 2.1 percent. Clearly, the extensive use of expensive, sometimes ineffective toxins in conventional oncology protocols is a failing strategy. Even the few survivors of these harsh slash-and-burn treatments can have dismal quality of life, suffering with ailments such as nerve damage, heart muscle disease, and liver and kidney failure. And unfortunately, many conventional doctors discourage patients from exploring alternative treatment options. A featured doctor in Suzanne Somers' bestselling cancer book Knockout, forty-year oncology veteran James W. Forsythe, M.D., H.M.D, offers a more cost-effective, personalized, and compassionate alternative to traditional cancer treatment in Take Control of Your Cancer: Integrating the Best of Alternative and Conventional Treatments. Dr. Forsythe's integrative approach has yielded an astonishing 46 percent positive response rate in a 500-patient study. In Take Control of Your Cancer, you will find information on all stages of cancer, including: • Warning signs of cancer • How to pinpoint the causes of cancer and to avoid recurrence • Preventative measures such as healthy diet and regular exercise • Overview of how to choose what drugs and supplements to use • How to take charge of your cancer treatment and maintain a positive attitude • Successful case studies of 40 of Dr. Forsythe's Stage IV cancer patients While Dr. Forsythe offers his patients conventional and alternative therapies on their own as well as an integrative option, Take Control of Your Cancer encourages cancer patients and their families to explore their treatment options and look for doctors who personalize treatment for optimal outcomes.

Successes and Limitations of Targeted Cancer Therapy This volume provides readers a comprehensive and state-of-the-art overview about the range of applications of targeted therapies for solid tumors. The sections of the book have been structured to review the oncogene addicted tumors, the pharmacology and clinical development of new molecularly targeted agents, the use of biomarkers as prognostic, predictive and surrogate endpoints, and the evaluation of tumor response and specific malignancies treated with targeted agents. The book also covers some of the newest developments in cancer therapy that are not adequately covered by any current available literature. Written by recognized experts in the field, Targeted Therapies for Solid Tumors: A Handbook for Moving Toward New Frontiers in Cancer Treatment provides a unique and valuable resource in the field of molecular oncology, both for those currently in training, and for those already in clinical or research practice.

Clinical Applications of Nuclear Medicine Targeted Therapy Since the last edition of this book, major advances have been made in our understanding of key pathways that control tumor progression. This has led to the development of new anticancer agents that have the ability to block the activity of proteins involved in neoplastic cell development and proliferation. Targeted Therapies in Oncology, Second Edition provides a concise timely panorama of existing targeted therapies and progress into future anticancer treatments. These therapies notably include: Targeted agents of immune checkpoints Signal-transduction inhibitors Antiangiogenic agents Vascular-disrupting agents Apoptosis modulators Stem cell inhibitors Tumor profiling for drug development The book emphasizes the biology behind this new class of drugs as well as the clinical achievements obtained. The contributors to this volume stand at the cutting edge of cancer research and treatment around the world.

Colon Cancer Diagnosis and Therapy Emerging technologies in target identification, drug discovery, molecular markers, and imaging are rapidly changing the face of cancer. This book provides a foundation of knowledge in targeted cancer therapeutics. The treatment of cancer is increasingly being individualized, based on an understanding of underlying biologic mechanisms. Poised to change the landscape in oncology, this volume provides a state-of-the-art overview. It will be valuable
Cancer Survival Guide This book offers a practical and modern update on radioisotope therapy. Clinically oriented, it provides a thorough guide to patient management, with the latest indications and procedures for the current radioisotopic treatments. It addresses the clinical problems associated with each respective pathology, discussing the management of patients (diagnosis and non-radioisotope therapy), the radiopharmaceuticals available today, and the current radioisotopic procedures. Wherever possible, information on dosimetry is included at the end of each topic, together with a list of and comments on the most recent guidelines with their recommendations for radiometabolic therapy. The book is divided into six main sections: thyroid diseases, hepatic tumors (HCC and hepatic metastases), bone metastases from prostate cancer, lymphomas, and neuroendocrine tumors. The last section is dedicated to new perspectives of radioisotope treatment. Based on contributions from of a multidisciplinary team of specialists: oncologists, surgeons, endocrinologists, hematologists, urologists, radiopharmacists and nuclear medicine physicians, it provides a comprehensive analysis of the position of radioisotope treatments among the various therapeutic options. Readers interested in targeted therapy, radiometabolic therapy, radioimmunotherapy and radiometabolic imaging will find this book both informative and insightful.

Towards Individualized Therapy for Multiple Myeloma With the thorough understanding of stem cell biology and the advent of targeted therapeutics for cancer, stem cell-based therapeutic strategies are being increasingly explored for the treatment of various cancer types. Mesenchymal Stem Cells in Cancer Therapy sheds light on current stem cell based targeted therapies for cancer, by focusing on the application of mesenchymal stem cells (MSC) in various cancers with emphasis on a number of aspects that are critical to the success of future stem cell based therapies for cancer. Sections of this publication are devoted to developing stem cell based therapies for cancer with the main focus on tumoritrophic properties of stem cells, engineering targeted therapeutics, utilization of imaging techniques and the recent combination studies utilizing currently employed therapeutics with stem cells. Mesenchymal Stem Cells in Cancer Therapy informs readers about critical and cutting edge stem cell therapies for cancer and also enables them to appreciate the vast plain of unresolved questions in stem cell research for cancer therapeutics. Includes biological foundation on key sources of mesenchymal stem cells and the various ways they can be utilized to treat cancer. Provides examples of current MSC based cancer therapies and prospects for the future with insights from the leading lab on cancer cell therapies. Technically advanced topic written for widespread understanding for clinical and research audiences.

Cancer Pain Management Improving the Therapeutic Ratio in Head and Neck Cancer provides a complete review of current approaches to modulating therapeutic sensitivity in head and neck cancer. It presents a broad background of current approaches and by highlighting the potential for clinical translational, introduces a roadmap for how to move promising preclinical findings into the clinic. The book discusses topics such as immunotherapy and molecularly targeted therapies in head and neck cancer, PI3k/mTOR pathway, autophagy inhibition to sensitize HNC to radiation and chemotherapy, TAM and Eph/Ephrin family proteins and metabolic reprogramming to modulate therapeutic sensitivity. Additionally, it details approaches to improve the response to immunotherapy, and Chk1/2 inhibition in radiation and cetuximab resistance. This book is a valuable source to head and neck cancer researchers and advanced students, and to those studying specific approaches in other model systems and disease sites. Provides key scientific background for clinicians when developing novel clinical trials and important examples for basic scientists of the types of work required to move a concept from the lab to the clinic Presents consistent pathway diagrams in each chapter, thus making it easier to understand complicated pathways Includes chapter summaries of the critical next steps needed to move studies from their current state into practice changing clinical data

Cancer Stem Cell Resistance to Targeted Therapy "In this accessible and well-written text, Martin Nowak and Robert May describe the emerging field of theoretical immunology. Using mathematical and computational models, the authors explore how populations of viruses and immune cells interact in various circumstances, and how infectious diseases spread with-in patients."--Page 4 de la couverture.

Drug Repurposing in Cancer Therapy Drug Repurposing in Cancer Therapy: Approaches and Applications provides comprehensive and updated information from
experts in basic science research and clinical practice on how existing drugs can be repurposed for cancer treatment. The book summarizes successful stories that may assist researchers in the field to better design their studies for new repurposing projects. Sections discuss specific topics such as in silico prediction and high throughput screening of repurposed drugs, drug repurposing for overcoming chemoresistance and eradicating cancer stem cells, and clinical investigation on combination of repurposed drug and anticancer therapy. Cancer researchers, oncologists, pharmacologists and several members of biomedical field who are interested in learning more about the use of existing drugs for different purposes in cancer therapy will find this to be a valuable resource. Presents a systematic and up-to-date collection of the research underpinning the various drug repurposing approaches for a quick, but in-depth understanding on current trends in drug repurposing research Brings better understanding of the drug repurposing process in a holistic way, combining both basic and clinical sciences Encompasses a collection of successful stories of drug repurposing for cancer therapy in different cancer types

Virus Dynamics There have been tremendous advances in our understanding of molecular and tumor biology during the past few years. In the field of cancer therapeutics, it is expected that cytotoxic drug approaches will be gradually replaced with treatments based on biological targeted approaches. Hopefully these new targeted therapies will significantly increase efficacy and lack the devastating and troublesome side effects elicited by cytotoxic chemotherapy. This volume is the first book to cover the general topic of targeted cancer therapy. It presents a range of targets such as tumor angiogenesis, cell cycle control and cell signalling, COX-2, apoptosis/cell survival, invasion and metastasis and approaches like kinase inhibitors, antisense, and antibody-based therapeutics. The emphasis is on preclinical development, including target validation, development of biomarkers, strategies for combination approaches, and development of resistance. The particular challenges involved in translating these data to clinical application are discussed. This volume should be of broad general interest to researchers and clinicians involved in cancer therapy as well as other scientists interested in current strategies for cancer treatment.

Targeted Therapies in Oncology, Second Edition The accessible guide to the principles behind new, more targeted drug treatments for cancer Written for anyone who encounters cancer patients, cancer data or cancer terminology, but have no more than a passing knowledge of cell biology. A Beginner's Guide to Targeted Cancer Treatments provides an understanding of how cancer works and the many new treatments available. Using over 100 original illustrations, this accessible handbook covers the biology and mechanisms behind a huge range of targeted drug treatments, including many new immunotherapies. Dr Vickers translates a complex and often overwhelming topic into something digestible and easily understood. She also explains what cancer is, how it behaves and how our understanding of cancer has changed in recent years. Each chapter takes the reader through how new cancer drugs work and their benefits and limitations. With the help of this book, readers will be able to better understand more complex, in-depth articles in journals and books and develop their knowledge. This vital resource: Offers the latest insights into cancer biology Provides a broad understanding of how targeted cancer treatments work Describes many of the new immunotherapy approaches to cancer treatment, such as checkpoint inhibitors and CAR-modified T cells Helps readers feel confident discussing treatment options with colleagues and patients Provides an overview of which treatments are relevant to each of the most common solid tumours and haematological cancers, and the rationale behind them Demystifies the jargon – terms such as the EMT, cancer stem cells, monoclonal antibodies, kinase inhibitors, angiogenesis inhibitors etc. Explains the resistance mechanisms to many new treatments, including issues such as the way cancer cells diversify and evolve and the complex environment in which they live

Targeted Therapies for Lung Cancer The Cancer Survival Guide will lead you through what will undoubtedly be the most crucial healthcare decisions you'll ever make. This definite manual to understanding, managing and preventing the diseases offers the most comprehensive and up-to-date information. Rely on the Cancer Survival Guide to address every facet of this illness that not only affects the sufferer's physical well-being and lifestyle, but one whose reverberations are also felt emotionally and spiritually, impacting family, friends, and caregivers alike.

Alternative and Complementary Therapies for Cancer reviews the concept of combining chemotherapeutic agents to increase cytotoxic efficacy in recent years; explains that as these drugs become part of clinical programs, it will be essential to understand how to combine them with traditional chemotherapy; addresses the critical understanding of these drug interactions for the successful introduction of these new agents into traditional clinical use; focuses on novel drug
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Targeted Cancer Therapies, From Small Molecules to Antibodies The past decades have seen major developments in the understanding of the cellular and molecular biology of cancer. Significant progress has been achieved regarding long-term survival for the patients of many cancers with the use of tamoxifen for treatment of breast cancer, treatment of chronic myeloid leukaemia with imatinib, and the success of biological drugs. The transition from cytotoxic chemotherapy to targeted cancer drug discovery and development has resulted in an increasing selection of tools available to oncologists. In this Special Issue of Pharmaceuticals, we highlight the opportunities and challenges in the discovery and design of innovative cancer therapies, novel small-molecule cancer drugs and antibody-drug conjugates, with articles covering a variety of anticancer therapies and potential relevant disease states and applications. Significant efforts are being made to develop and improve cancer treatments and to translate basic research findings into clinical use, resulting in improvements in survival rates and quality of life for cancer patients. We demonstrate the possibilities and scope for future research in these areas and also highlight the challenges faced by scientists in the area of anticancer drug development leading to improved targeted treatments and better survival rates for cancer patients.

Targeted Cancer Treatment in Silico This electronic version has been made available under a Creative Commons (BY-NC-ND) open access license. What does it mean to personalise cancer medicine? Drawing on an ethnographic study with cancer patients, carers and practitioners in the UK, this book traces their efforts to access and interpret novel genomic tests, information and treatments as they craft personal and collective futures. Exploring multiple experiences of new diagnostic tests, research programmes and trials, advocacy and experimental therapies, the authors chart the different kinds of care and work involved in efforts to personalise cancer medicine, as well as the ways in which benefits and opportunities are unevenly realised and distributed. Comparing these experiences with policy and professional accounts of the ‘big’ future of personalised healthcare, the authors show how hope and care are multi-faceted, contingent and, at times, frustrated in the everyday complexities of living and working with cancer.

Advanced Drug Delivery Systems in the Management of Cancer Adjuvant treatment is administered prior to or as follow up to surgical procedures for breast cancer. Proven success in using medical therapies allowing for breast conserving procedures or reducing risk of occurrence. Although there has been much progress towards a cure, including the introduction of new targeted therapies, metastasizing cancer remains highly incurable.

Current Trends in Cancer Management This book was conceived from a simple question as to why cancer is so difficult to treat. Ultimately we want to find ways to cure cancers, but that may be an elusive dream at least with the technologies we have now and expect to have in the near future. This leads the question of whether it is possible to improve current cancer treatment methods, especially from the perspective of enhancing targeted drug delivery to tumors. This volume is designed to provide information related to the difficulties in treating cancers through targeted drug delivery, our current understanding of cancer biology, and potential technologies that might be used to achieve enhanced drug delivery to tumors. An ideal drug delivery system for treating cancers would maximize the therapeutic efficacy with minimal side effects in clinical applications. The seemingly improved anticancer efficacy of the current nanoparticle-based formulations needs to be viewed from the context of very poor success rates for translation to human applications. The results of in vitro cell culture models and small animal in vivo experiments have not been extrapolated to clinical applications. Finding the reasons for the lack of successful translation is required if we are to discover approaches to substantially extend the survival time of cancer patients, and hopefully identify cures. Cancer Targeted Drug Delivery: Elusive Dream describes some answers of achieving the so far elusive dream of treating cancers like other chronic diseases with therapies that focus using improved drug delivery systems designed to better align with the unique biological and physiological properties of cancer.

Improving the Therapeutic Ratio in Head and Neck Cancer Statistics reveal that millions of cases of new cancer are diagnosed each year. With early detection and treatment, survival rates are on the rise. Readers will explore the various forms of cancer and the advances being made with the variety of treatment options available to patients.
Targeted Therapies in Cancer The field of cancer diagnosis, prognosis, and treatment is constantly advancing. From novel biomarkers to cutting-edge imaging solutions, changing chemotherapy protocols and novel immune-targeting agents, medical teams develop and test new ways to manage this ever-growing threat to the modern age. Imaging has been a reliable method for initial diagnosis and later surveillance of premalignant and cancerous lesions of the digestive tract. This book project aims to characterize the main diagnostic procedures and novel medical and surgical treatments, as well as provide an updated view on current guidelines, premalignant lesions management, and minimally invasive curative techniques.

Mesenchymal Stem Cells in Cancer Therapy

Young Survival Coalition Metastatic Navigator From its introduction, oncological chemotherapy has been encumbered by poor selectivity because antiproliferative drugs are often toxic not only to tumor cells but also to important populations of the body’s non-neoplastic cells. Modern targeted therapies interact with defined molecules present on cancer cells, adding increased selectivity to their toxic effects. This book presents an integrated critical view on the theories, mechanisms, problems and pitfalls of the targeted therapy approach.

Molecularly Targeted Therapy for Childhood Cancer Advanced Drug Delivery Systems in the Management of Cancer discusses recent developments in nanomedicine and nano-based drug delivery systems used in the treatment of cancers affecting the blood, lungs, brain, and kidneys. The research presented in this book includes international collaborations in the area of novel drug delivery for the treatment of cancer. Cancer therapy remains one of the greatest challenges in modern medicine, as successful treatment requires the elimination of malignant cells that are closely related to normal cells within the body. Advanced drug delivery systems are carriers for a wide range of pharmacotherapies used in many applications, including cancer treatment. The use of such carrier systems in cancer treatment is growing rapidly as they help overcome the limitations associated with conventional drug delivery systems. Some of the conventional limitations that these advanced drug delivery systems help overcome include nonspecific targeting, systemic toxicity, poor oral bioavailability, reduced efficacy, and low therapeutic index. This book begins with a brief introduction to cancer biology. This is followed by an overview of the current landscape in pharmacotherapy for the cancer management. The need for advanced drug delivery systems in oncology and cancer treatment is established, and the systems that can be used for several specific cancers are discussed. Several chapters of the book are devoted to discussing the latest technologies and advances in nanotechnology. These include practical solutions on how to design a more effective nanocarrier for the drugs used in cancer therapeutics. Each chapter is written with the goal of informing readers about the latest advancements in drug delivery system technologies while reinforcing understanding through various detailed tables, figures, and illustrations. Advanced Drug Delivery Systems in the Management of Cancer is a valuable resource for anyone working in the fields of cancer biology and drug delivery, whether in academia, research, or industry. The book will be especially useful for researchers in drug formulation and drug delivery as well as for biological and translational researchers working in the field of cancer. Presents an overview of the recent perspectives and challenges within the management and diagnosis of cancer Provides insights into how advanced drug delivery systems can effectively be used in the management of a wide range of cancers Includes up-to-date information on diagnostic methods and treatment strategies using controlled drug delivery systems
how well government drug subsidies can protect patients from catastrophic payments due to expensive trastuzumab. Methods: This dissertation will use a data set from a survey called "The effect of decision aids on treatment decision making for breast cancer surgery: A randomized controlled trial." The survey targets Cantonese-speaking Chinese females attending one of the forty public hospitals under the Hospital Authority (except for the Queen Elizabeth Hospital). Cross-tabulations and logistic regressions are used to determine the association between SES and patients' status on using targeted therapy. Results: Bivariate analyses show that associations between SES and those using targeted therapy are only present for certain independent variables including age, education attainment and medical insurance coverage four months and ten months after surgery. The logistic regression indicates that the variables, besides medical insurance coverage, are unable to predict whether the patient chooses targeted therapy or not. Conclusion: To conclude, associations between SES and targeted therapy usage (i.e. either the patient is currently receiving or waiting for therapy) is weak. Even though associations between SES and health outcomes (such as survival and mortality) are well-established, previous studies have commented that the mechanism behind this association is difficult to disentangle. In addition, the association appears weak in this study probably due to the small sample size, complicated interactions between SES and treatment choice, and insufficient information. Second, after comparing the Samaritan Fund and Community Care Fund financial criteria with the monthly household income of females in my data set, it is noticeable that the middle class could be at risk to financial burdens when paying for expensive drugs. DOI: 10.5353/th_b4842610 Subjects: Breast - Cancer - Treatment - Social aspects - China - Hong Kong Breast - Cancer - Treatment - Economic aspects - China - Hong Kong Drug targeting - China - Hong Kong