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This book, Natural Products and Cancer Drug Discovery, is written by leading experts in natural products in cancer therapy. The first two sections describe new applications of common herbs and foods for treatment of cancer. Section 3 deals with the development of new chemotherapeutics from Cannabis and endophytic fungi. Section 4 presented formulations of natural products for treatment of malignant melanoma. Made-to-order anticancer therapy from natural products using computational and tissue engineering approaches is addressed in the fifth section. It is our hope that this book may motivate readers to approach the evidence of anticancer natural products with an open mind and thereby spark an interest in making further contributions to the cancer treatment efforts. Frontiers in Anti-Cancer Drug Discovery is an Ebook series devoted to publishing the latest and the most important advances in Anti-Cancer drug design and discovery. Eminent scientists write contributions on all areas of rational drug design and drug discovery including medicinal chemistry, in-silico drug design, combinatorial chemistry, high-throughput screening, drug targets, recent important patents, and structure-activity relationships. The Ebook series should prove to be of interest to all

pharmaceutical scientists involved in research in Anti-Cancer drug design and discovery. Each volume is devoted to the major advances in Anti-Cancer drug design and discovery. The Ebook series is essential reading to all scientists involved in drug design and discovery who wish to keep abreast of rapid and important developments in the field. In spite of the development of various anticancer drugs, the therapy of cancer has remained challenging for decades. The current therapy of cancer is overwhelmed because of the inability to deliver therapeutics to all regions of a tumor in effective therapeutic concentrations, intrinsic or acquired resistance to the treatment with currently available agents via genetic and epigenetic mechanisms, and toxicity. As a result, cancer therapy using conventional therapeutics and different types of treatment regimens using this therapeutics has not led to a convincing survival benefit of the patients. In this context, Macromolecular therapeutics offer several advantages over conventional low molecular therapeutics by various ways such as, enable the use of larger doses of these agents by limiting the toxicity, by enhanced permeability and retention into tumors, by tumor targeting using tumor-specific antibodies, by specific inhibition of oncogenes using anticancer oligonucleotides etc. Cancer treatment using this macromolecular therapeutics has considerably improved the survival benefit for patients. As a result, various macromolecular therapeutics are already commercialized or are under clinical development. Although we are far from a real magic bullet today, looking at the pace of research and current success in this field of macromolecular therapeutics, it appears that we are approaching a magic bullet for the efficient treatment of cancer. Thus, we believe that the subject of this book is very timely, and that the book will fill an unmet need in the market. This book is unique and assembles various types and aspects of macromolecular anticancer therapeutics for cancer therapy in one shell and conveys the importance of this interdisciplinary field to the broad audience. Thus, in a nutshell, this book details the basics of cancer, and various therapeutic strategies such as those based on macromolecular therapeutics hence can become an important reference for practitioners, oncologists, medical pharmacologists, medicinal chemists, biomedical scientists, experimental pharmacologists, pharmaceutical technologists, and particularly it can essentially become a handbook of macromolecular therapeutics for cancer therapy for graduates, post-graduates and Ph.D. students in these fields. This volume will cover the natural products as they relate to cancer chemotherapy. The topics will include history and current status , recent launches, new clinical candidates and approved drugs directly derived from natural products, current and future cancer target opportunities for natural products, leveraging natural products as tools for new target generation , new approaches to cancer drug discovery through natural products based lead generation, and enabling technologies which leverage the unique attributes of natural products. An integrated presentation of the basic science and clinical applications of anticancer agents Aimed at both undergraduate and postgraduate readers, this unique text provides readers with a fully-integrated presentation of all aspects of the science of anticancer drugs, including their chemistry, pharmacology, and clinical applications. After heart disease, cancer is the number one killer worldwide, and the tumor microenvironment is forever changing, creating an ever-greater demand for safer, more effective anticancer agents. In response to that demand, the $100 billion cancer drug market continues to grow, with our increased understanding of cancer leading to new drugs being used clinically almost every year. Anticancer Therapeutics is divided into three sections. Section 1 is an introduction to cancer and therapeutics, and covers the etiology and cellular and molecular basis of cancer. In Section 2, the authors focus on the anticancer agents — their discovery, synthesis, mode of action, mechanisms of resistance, and adverse reactions. Section 3 focuses on specific cancers, explaining how and why the various agents discussed in Section 2 are used, both individually and in combination, to treat different cancers. Integrates aspects of basic science, including chemistry and pharmacology and clinical medicine in relation to cancer therapeutics Written by an author team comprising specialists in medicinal chemistry, pharmacology, and oncology Features full-color images throughout illustrating how drugs bind to cellular targets and exert their pharmacological effect Divided into three sections, covering the etiology and cellular and molecular basis of cancer, anticancer agents, and drug applications for different cancers. Providing the reader with an integrated understanding of all aspects of the science of anticancer agents, this is an ideal textbook for undergraduates studying medicine, nursing, medicinal chemistry, pharmacy, pharmacology and other allied heath / life sciences. It is also a valuable bench reference for pharmacists, medics, and pharmaceutical researchers working in both academia and industry. Leading experts summarize and synthesize the latest discoveries concerning the changes that occur in tumor cells as they develop resistance to anticancer drugs, and suggest new approaches to preventing and overcoming it. The authors review physiological resistance based upon tumor architecture, cellular resistance based on drug transport, epigenetic changes that neutralize or bypass drug cytotoxicity, and genetic changes that alter drug target molecules by decreasing or eliminating drug binding and efficacy. Highlights include new insights into resistance to antiangiogenic therapies, oncogenes and tumor suppressor genes in therapeutic resistance, cancer stem cells, and the development of more effective therapies. There are also new findings on tumor immune escape mechanisms, gene amplification in drug resistance, the molecular determinants of multidrug resistance, and resistance to taxanes and Herceptin. The Advances in Cancer Research series provides invaluable information on the exciting and fast-moving field of cancer research. This volume stands as the first ever thematic volume in the series, focusing on the topic of genomics in cancer drug development. The chapters included in this book represent the cutting-edge information in the field and span such topics as Mass Spectrometry: Uncovering the Cancer Proteome for Diagnostics; Biomarker Discovery in Epithelial Ovarian Cancer by Genomic Approaches; The Application of siRNA Technology to Cancer Biology Discovery; Ribozyme Technology for Cancer Gene Target Identification and Validation; Cancer Cell-Based Genomic and Small Molecule Screens; Tumour Antigens as Surrogate Markers and Targets for Therapy and Vaccines; Practices and Pitfalls of Mouse Cancer Models in Drug Discovery; Biomarker Assay Translation from Discovery to Clinical Studies in Cancer Drug Development – Quantification of Emerging Protein Biomarkers; Molecular Optical Imaging of Therapeutic Targets of Cancer; Cancer Drug Approval in the United States, Europe and Japan. The evidence of cancer in humans, animals and plant species suggests that it is as old as multicellular life on Earth. Why is it so difficult to understand and fight? Because cancer begins from the organism's own mutated single cell focused on its own survival. It would be naive to expect that cancer could be ever entirely eliminated, but there is still hope for finding effective treatments. The book is to give a view of selected aspects of cancer like its spread in nature, novel anticancer drugs based on Chinese herbs or birch bark, novel promising targets of annexins and kinases and progress in immunotherapy. It is our hope that you will find in this book interesting, inspiring and stimulating information concerning cancer research. The reader will discover a comprehensive and multifaceted overview of the history of the development of anticancer drugs deeply influenced by the cell concept of cancer and future directions for the development of new anticancer drugs. First, this book documents the scientific progress in biological science over the last 70 years and the influence this progress had in cancer research. Summaries and charts of important discoveries complete this overview. Furthermore, this book outlines the process of anticancer drug development with a focus on the characteristic drug groups of each era, related to advancements of chemistry and biological sciences. This book also provides brief mechanism of action of drugs, illustrated by comprehensive timelines and conceptual cartoons. This book finally sums up the limitations of the current anticancer drug development and seeks new directions for anticancer drug discovery, considering under the systemic view of cancer. Frontiers in Anti-Cancer Drug Discovery is a book series devoted to publishing the latest advances in anti-cancer drug design and discovery. In each volume, eminent scientists contribute reviews relevant to all areas of rational drug design and drug discovery including medicinal chemistry, in-silico drug design, combinatorial chemistry, high-throughput screening, drug targets, recent important patents, and structure-activity relationships. The book series should prove to be of interest to all pharmaceutical scientists involved in research in anti-cancer drug design and discovery. The book series is essential reading to all scientists involved in drug design and discovery who wish to keep abreast of rapid and important developments in the field. The eleventh volume of the series focuses on reviews on targeted therapies and drug delivery systems. This volume covers the following topics: - PI3K/Akt/mTOR Pathway in Acute Lymphoblastic Leukemia Targeted Therapies - Polymeric Nanomedicines in Treatment of Breast Cancer: Review of Contemporary Research - Treatment of Lung Cancer in the New Era - Oral Administration of Cancer Chemotherapeutics Exploiting Self-Nanoemulsifying Drug Delivery System: Recent Progress and Application - Targeting Approaches for the Diagnosis and Treatment of Cancer. Animal Models in Cancer Drug Discovery brings forward the most cutting-edge developments in tumor model systems for translational cancer research. The reader can find under this one volume virtually all types of existing and emerging tumor models in use by the research community. This book provides a deeper insight on how these newer models could de-risk modern drug discovery. Areas covered include up to date information on latest organoid derived models and newer genetic models. Additionally, the book

discusses humanized animal tumor models for cancer immunotherapy and how they leverage personalized therapies. The chapter on larger animal, canine models and their use in and their use in pre-investigational new drug (pre-IND) development makes the volume unique. Unlike before, the incorporation of several simplified protocols, breeding methodologies, handling and assessment procedures to study drug intervention makes this book a must read. Animal Models in Cancer Drug Discovery is a valuable resource for basic and translational cancer researchers, drug discovery researchers, contract research organizations, and knowledge seekers at all levels in the biomedical field. Encompasses discussions on innovative animal models, xenograft, genetic models, primary models, organoid systems, humanized and other models in modern biology paradigms that are enhancing research in the field of drug discover Covers the use of these models in personalized medicine, immunotherapy, toxicology, pre-IND assessments and related drug development arenas Presents protocols, procedures, and a comprehensive glossary to help new readers understand technical terms and specialized nomenclature The successes that have been achieved in treating childhood cancers stand as beacons against the less dramatic improvements for adults with cancer. Progress began to accelerate in the 1960s and 1970s, as treatment regimens were built up, primarily by building combinations of chemotherapeutic drugs. However the near absence of research in pediatric cancer drug discovery threatens to halt the progress in childhood cancer treatment achieved during the past four decades. Making Better Drugs for Children with Cancer identifies the major issues to be addressed in developing new agents for childhood cancers, the gaps in research and development, and the steps that have been suggested to move the process forward. This report also makes a new proposal to capitalize on today's science to bring new treatments to children's cancers. Cancer can be treated by a number of different therapeutic modalities that comprise of surgery, radiation therapy, chemotherapy, hormonal therapy, targeted therapy and synthetic lethality. A particular cancer therapy is chosen as per the grade, location and stage of the tumor as well as the performance status of the patient. The complete removal of the cancer without causing any damage to the rest of the body is the ideal goal of cancer treatment. Besides curative intent, treatment also seeks to suppress the cancer to a subclinical state and thereby maintain a quality of life for patients with the chronic condition, and provide palliative care in advanced-stage metastatic cancers. To achieve clinical progress against cancer, it is vital to continue research in cancer drug discovery and development. Since each tumor exhibits a unique set of genomic alterations irrespective of the tissue of origin, it can lead to a wide variability in terms of drug responses. As a result, new human cancer models need to be developed and investigated to achieve better drug discovery and development. This book covers in detail some existing theories and innovative concepts revolving around cancer drug discovery and development. It explores all the important aspects of cancer drugs in the present day scenario. This book is meant for students who are looking for an elaborate reference text on cancer medicine. An integrated overview of cancer drug discovery and development from the bench to the clinic, showing with broad strokes and representative examples the drug development process as a network of linked components leading from the discovered target to the ultimate therapeutic product. Following a systems biology approach, the authors explain genomic databases and how to discover oncological targets from them, how then to advance from the gene and transcript to the level of protein biochemistry, how next to move from the chemical realm to that of the living cell and, ultimately, pursue animal modeling and clinical development. Emerging cancer therapeutics including Ritux an, Erbitux, Gleevec Herceptin, Avastin, ABX-EGF, Velcade, Kepivance, Iressa, Tarceva, and Zevalin are addressed. Highlights include cancer genomics, pharmacogenomics, transcriptomics, gene expression analysis, proteomic and enzymatic cancer profiling technologies, and cellular and animal approaches to cancer target validation. In this volume, the major metabolic alterations identified in cancer and tumor-associated cells are explored, including discussions of former and emerging approaches to drug development in targeting cancer cell metabolism. The metabolic network in cells promotes the generation of both energy and biomass needed for them to grow, divide and differentiate. However, the metabolism of malignant cells generally varies from that of normal cells. These differences provide a platform for the discovery of new approaches to targeting potential vulnerabilities in cancer cells for therapeutic options Some of the significant changes that occur involve ATP production and consumption that modulates the ATP to ADP ratio, hypoxia and the effects of reactive oxygen species on glycolysis, regulation of mitochondrial respiration, induction and suppression of autophagy, and the Warburg effect and “reverse” Warburg effect--these topics and more are discussed in this volume. Drug Discovery and Development, Third Edition presents up-to-date scientific information for maximizing the ability of a multidisciplinary research team to discover and bring new drugs to the marketplace. It explores many scientific advances in new drug discovery and development for areas such as screening technologies, biotechnology approaches, and evaluation of efficacy and safety of drug candidates through preclinical testing. This book also greatly expands the focus on the clinical pharmacology, regulatory, and business aspects of bringing new drugs to the market and offers coverage of essential topics for companies involved in drug development. Historical perspectives and predicted trends are also provided. Features: Highlights emerging scientific fields relevant to drug discovery such as the microbiome, nanotechnology, and cancer immunotherapy; and novel research tools such as CRISPR and DNA-encoded libraries Case study detailing the discovery of the anti-cancer drug, lorlatinib Venture capitalist commentary on trends and best practices in drug discovery and development Comprehensive review of regulations and their impact on drug development, highlighting special populations, orphan drugs, and pharmaceutical compounding Multidiscipline functioning of an Academic Research Enterprise, plus a chapter on Ethical Concerns in Research Contributions by 70+ experts from industry and academia specialists who developed and are practitioners of the science and business Experienced cancer researchers from pharmaceutical companies, government laboratories, and academia comprehensively review and describe the arduous process of cancer drug discovery and approval. They focus on using preclinical in vivo and in vitro methods to identify molecules of interest, detailing the targets and criteria for success in each type of testing and defining the value of the information obtained from the various tests. They also define each stage of clinical testing, explain the criteria for success, and outline the requirements for FDA approval. A companion volume by the same editor (Cancer Therapeutics: Experimental and Clinical Agents) reviews existing anticancer drugs and potential anticancer therapies. These two volumes in the Cancer Drug Discovery and Development series reveal how and why molecules become anticancer drugs and thus offer a blueprint for the present and the future of the field. The drugs which are used in the treatment of cancerous or malignant diseases are termed anti-cancer drugs. The different categories of anticancer drugs are antimetabolites, alkylating agents, hormones and natural products. There are some drugs which do not fall within these categories but exhibit anticancer properties. The selection of a particular anticancer drug to treat a cancer depends on various factors such as the severity of cancer, the location and the type of cancer. The side effects of the drug and whether radiation therapy or surgery can be used are also reasons which help in the determination of which drugs should be administered. This book attempts to understand the multiple branches that fall under the discipline of anti-cancer drug discovery and how such concepts have practical applications. It presents researches and studies performed by experts across the globe. Researchers and students in this field will be assisted by this book. This book reviews recent breakthroughs in anti-cancer drug discovery. Building on the previous volume in the series, it outlines some of the most significant developments that have occurred in the field in the subsequent period that have led to new drug approvals or promising clinical candidates. The volume is divided into chapters that each relate to a specific protein or protein class. Each chapter provides an overview of the underlying biology and then emphasises the medicinal chemistry strategies and tactics that led to the most significant drugs and drug candidates. A summary of clinical data and the future outlook for the field is also provided. Each chapter is authored by experts in the topic and who have themselves made significant contributions to their respective fields. Lead Compounds from Medicinal Plants for the Treatment of Cancer is the first volume in the series, Pharmaceutical Leads from Medicinal Plants. The plant species described in this reference have been carefully selected based on pharmacological evidence and represent today's most promising sources of natural products for the discovery of anti-cancer drugs. Containing references to primary source material, over a hundred botanical illustrations, a table of chemical structures and much more, this book is an essential starting point for cancer researchers and those involved in anti-cancer drug discovery helping you identify the best novel lead molecules for further anti-cancer drug development. Provides a compilation of hundreds of medicinal plants from Europe, Asia, North and South America and Africa that contain prominent lead candidates for anti-cancer drug discovery Contains primary source references and hundreds of the most relevant citations from the current literature for additional research Offers cancer researchers and pharmaceutical scientists valuable tools such as chemical structures and promising pharmacological data to help them select the novel lead compounds that will best aid drug discovery. Genomics and Pharmacogenomics in Anticancer Drug

Development and Clinical Response provides the most comprehensive body of knowledge available on the role of genetic and genomic variation in the individualization of drug therapies in cancer patients. As a consequence of the intrinsic chromosomal and genetic instability of the tumor genome, it is generally believed that tailoring of chemotherapy in cancer - tients might be achieved by molecular analysis of patient tumor DNA. In addition, to reduce the toxicity risk of patients, the tumor DNA information should be in- grated with the available data on polymorphic drug-metabolizing enzyme and tra- porter genes mediating the exposure of patients to active drugs and/or their active metabolites. The chapters of this book clearly show how DNA information from both the host (germline) and the tumor should be taken into account for rational selection of drug therapies in cancer patients, an aspect that received little attention, despite its importance. The availability of new molecular approaches to the selection of drug therapy is an emerging need, because the traditional approach based on the evaluation of patient and tumor characteristics is clearly far from optimal. Many treated patients do not experience signi?cant bene?ts from the treatment, while they often experience moderate to severe toxicities. In addition, the development and clinical use of novel molecularly targeted agents (alone or in combination with classical cytotoxic therapy) requires the und- standing of the molecular features of the tumors and the identi?cation of tumor markers of response. Advances in cancer research have led to an improved understanding of the molecular mechanisms underpinning the development of cancer and how the immune system responds to cancer. This influx of research has led to an increasing number and variety of therapies in the drug development pipeline, including targeted therapies and associated biomarker tests that can select which patients are most likely to respond, and immunotherapies that harness the body's immune system to destroy cancer cells. Compared with standard chemotherapies, these new cancer therapies may demonstrate evidence of benefit and clearer distinctions between efficacy and toxicity at an earlier stage of development. However, there is a concern that the traditional processes for cancer drug development, evaluation, and regulatory approval could impede or delay the use of these promising cancer treatments in clinical practice. This has led to a number of effortsâ€"by patient advocates, the pharmaceutical industry, and the Food and Drug Administration (FDA)â€"to accelerate the review of promising new cancer therapies, especially for cancers that currently lack effective treatments. However, generating the necessary data to confirm safety and efficacy during expedited drug development programs can present a unique set of challenges and opportunities. To explore this new landscape in cancer drug development, the National Academies of Sciences, Engineering, and Medicine developed a workshop held in December 2016. This workshop convened cancer researchers, patient advocates, and representatives from industry, academia, and government to discuss challenges with traditional approaches to drug development, opportunities to improve the efficiency of drug development, and strategies to enhance the information available about a cancer therapy throughout its life cycle in order to improve its use in clinical practice. This publication summarizes the presentations and discussions from the workshop. Molecular Cancer Therapeutics covers state-of-the-art strategies to identify and develop cancer drug target molecules and lead inhibitors for clinical testing. It provides a thorough treatment of drug target discovery, validation, and development. The introductory chapters provide an overview of pathways to discovery and development of molecular cancer therapeutics. Subsequent chapters progress from initial stages of drug target discovery to drug discovery, development, and testing in preclinical and clinical models. Topics include drug lead screening, drug-to-lead development, proof-of-concept studies, medicinal chemistry issues, intellectual property concerns, and clinical development. This invaluable reference promotes understanding of steps involved in developing drug leads for industrial partnering and development. It provides an overview of the strategies for discovery and validation of drug target molecules, and discusses cell- and molecule-based drug screening strategies, as well as mouse models for cancer. Coverage also includes how to refine drug leads for suitability in clinical testing, the special issues of clinical testing of molecular-targeted drugs, and intellectual property concerns. Frontiers in Anti-Cancer Drug Discovery is a book series devoted to publishing the latest advances in anti-cancer drug design and discovery. In each volume, eminent scientists contribute reviews relevant to all areas of rational drug design and drug discovery including medicinal chemistry, in-silico drug design, combinatorial chemistry, high-throughput screening, drug targets, recent important patents, and structure-activity relationships. The book series should prove to be of interest to all pharmaceutical scientists involved in research in anti-cancer drug design and discovery. The book series is essential reading to all scientists involved in drug design and discovery who wish to keep abreast of rapid and important developments in the field. This volume of the series focuses on reviews of treatments derived from natural sources (cannabinoid-based medicines and turmeric), immunotherapy, biomarkers for glioblastoma and some new drug targets for anti-cancer treatment. The reviews included in this volume are: - Cannabinoid-Based Anticancer Strategies: - The Beneficial Effects of Turmeric and Its Active Constituent in Cancer Treatment - Immunotherapy Approaches Focusing on Cancer Stem Cells - Immunotherapy for the Treatment of Hepatocellular Carcinoma - Role of Biomarkers in Developing Therapies for Glioblastoma Multiforme - Poly (ADP-ribose) Polymerases as New Drug Targets in Cancer Treatment Frontiers in Anti-Cancer Drug Discovery is a book series devoted to publishing the latest advances in anti-cancer drug design and discovery. In each volume, eminent scientists contribute reviews relevant to all areas of rational drug design and drug discovery including medicinal chemistry,in-silico drug design, combinatorial chemistry, high-throughput screening, drug targets, recent important patents, and structure-activity relationships. The book series should prove to be of interest to all pharmaceutical scientists involved in research in anti-cancer drug design and discovery. The book series is essential reading to all scientists involved in drug design and discovery who wish to keep abreast of rapid and important developments in the field. The tenth volume of the series features chapters covering the following topics: - Challenges in the Management of Hepatoblastoma - The Emerging Role of Monocarboxylate Transporter-1 in Cancer - In-vitro Anti-Proliferative Assays and Techniques Used in Pre-Clinical Anti-Cancer Drug Discovery - Recent Advances in the Development of Mesoporous Anti-Cancer Drug Nanocarriers - Polyphenols and Cancer - Glioblastoma Multiforme - Cutting Edge Targeting Strategies Utilizing Nanotechnology in Breast Cancer Therapy. Frontiers in Anti-Cancer Drug Discovery is an eBook series devoted to publishing the latest and the most important advances in Anti-Cancer drug design and discovery. Eminent scientists write contributions on all areas of rational drug design and drug discovery including medicinal chemistry, in-silico drug design, combinatorial chemistry, high-throughput screening, drug targets, recent important patents, and structure-activity relationships. The eBook series should prove to be of interest to all pharmaceutical scientists involved in research in Anti-Cancer drug design and discovery. Each volume is devoted to the major advances in Anti-Cancer drug design and discovery. The eBook series is essential reading to all scientists involved in drug design and discovery who wish to keep abreast of rapid and important developments in the field. The seventh volume of the series features chapters covering the following topics: - Malignant pleural mesothelioma - Colorectal cancer therapy - Drugs for treating pancreatic cancer - Adjuvant endocrine therapy for early breast cancer - Cyclin E and its potential use for liver cancer prognosis and therapy There are many steps on the road from discovery of an anticancer drug to securing its final approval by the Food and Drug Administration. In this thoroughly updated and expanded second edition of the Handbook of Anticancer Pharmacokinetics and Pharmacodynamics, leading investigators synthesize an invaluable overview of the experimental and clinical processes of anticancer drug development, creating a single indispensable reference that covers all the steps from the identification of cancer-specific molecular targets to screening techniques and the development and validation of bioanalytical methods to clinical trial design and all phases of clinical trials. The authors have included new material on phase 0 trials in oncology, organ dysfunction trials, drug formulations and their impact on anticancer drug PK/PD including strategies to improve drug delivery, pharmacogenomics and cancer therapy, high throughput platforms in drug metabolism and transport pharmacogenetics, imaging in drug development and nanotechnology in cancer. Authoritative and up-to-date, Handbook of Anticancer Pharmacokinetics and Pharmacodynamics, 2nd Edition provides in one comprehensive and highly practical volume a detailed step-by-step guide to the successful design and approval of anticancer drugs. Road map to anticancer drug development from discovery to NDA submission Discussion of molecular targets and preclinical screening Development and validation of bioanalytical methods Chapters on clinical trial design and phase 0, I, II, III clinical trials Pharmacokinetics, pharmacodynamics, pharmacogenomics, and pharmacogenetics of anticancer agents Review of the drug development process from both laboratory and clinical perspectives New technological advances in imaging, high throughput platforms, and nanotechnology in anticancer drug development Frontiers in Anti-Cancer Drug Discovery is a book series devoted to publishing the latest and the most important advances in anti-cancer drug design and discovery. Eminent scientists write contributions on all areas of rational drug design and drug discovery including medicinal chemistry, in-silico drug design, combinatorial chemistry, high-throughput screening, drug targets, recent important patents, and structure-

activity relationships. The book series should prove to be of interest to all pharmaceutical scientists involved in research in anti-cancer drug design and discovery. Each volume is devoted to the major advances in anti-cancer drug design and discovery. The book series is essential reading to all scientists involved in drug design and discovery who wish to keep abreast of rapid and important developments in the field. The eighth volume of the series features chapters covering the following topics: - T cells in gastrointestinal cancers - The pharmacology of adjudin – a male contraceptive with anti-cancer properties - Manipulating the tumor microenvironment - Treatment of hepatocellular carcinoma - Gold-based compounds as potential anti-cancer drug candidates - Oral nanostructure drug delivery for anti-cancer treatment Drug Discovery in Cancer Epigenetics is a practical resource for scientists involved in the discovery, testing, and development of epigenetic cancer drugs. Epigenetic modifications can have significant implications for translational science as biomarkers for diagnosis, prognosis or therapy prediction. Most importantly, epigenetic modifications are reversible and epigenetic players are found mutated in different cancers; therefore, they provide attractive therapeutic targets. There has been great interest in developing and testing epigenetic drugs, which inhibit DNA methyltransferases, histone modifying enzymes or chromatin reader proteins. The first few drugs are already FDA approved and have made their way into clinical settings. This book provides a comprehensive summary of the epigenetic drugs currently available and aims to increase awareness in this area to foster more rapid translation of epigenetic drugs into the clinic. Highlights the potential of epigenetic alterations in cancer for drug development Covers the tools and methods for epigenetic drug discovery, preclinical and clinical testing, and clinical implications of epigenetic therapy Provides important information regarding putative epigenetic targets, epigenetic technologies, networks and consortia for epigenetic drug discovery and routes for translation Cancer Drug Design and Discovery, Second Edition is an important reference on the underlying principles for the design and subsequent development of new anticancer small molecule agents. New chapters have been added to this edition on areas of particular interest and therapeutic promise, including cancer genomics and personalized medicine, DNA-targeted agents and more. This book includes several sections on the basic and applied science of cancer drug discovery and features those drugs that are now approved for human use and are in the marketplace, as well as those that are still under development. By highlighting some of the general principles involved in taking molecules through basic science to clinical development, this book offers a complete and authoritative reference on the design and discovery of anticancer drugs for translational scientists and clinicians involved in cancer research. Provides a clinical perspective on the development of new molecularly targeted anticancer agents with the latest and most promising chemotherapeutic approaches Offers a broad view of where the field is going, what tools drug discovery is using to produce new agents and how they are evaluated in the laboratory and clinic Features 6 new chapters devoted to advances in technology and successful anticancer therapies, such as cancer genomics and personalized medicine, DNA-targeted agents, B-Raf inhibitors and more Each chapter includes extensive references to the primary and review literature, as well as to relevant web-based sources Sets forth the history, state of the science, and future directions of drug discovery Edited by Jie Jack Li and Nobel laureate E. J. Corey, two leading pioneers in drug discovery and medicinal chemistry, this book synthesizes great moments in history, the current state of the science, and future directions of drug discovery into one expertly written and organized work. Exploring all major therapeutic areas, the book introduces readers to all facets and phases of drug discovery, including target selection, biological testing, drug metabolism, and computer-assisted drug design. Drug Discovery features chapters written by an international team of pharmaceutical and medicinal chemists. Contributions are based on a thorough review of the current literature as well as the authors' firsthand laboratory experience in drug discovery. The book begins with the history of drug discovery, describing groundbreaking moments in the field. Next, it covers such topics as: Target identification and validation Drug metabolism and pharmacokinetics Central nervous system drugs In vitro and in vivo assays Cardiovascular drugs Cancer drugs Each chapter features a case study, helping readers understand how science is put into practice throughout all phases of drug discovery. References at the end of each chapter serve as a gateway to groundbreaking original research studies and reviews in the field. Drug Discovery is ideal for newcomers to medicinal chemistry and drug discovery, providing a comprehensive overview of the field. Veterans in the field will also benefit from the perspectives of leading international experts in all aspects of drug discovery. A practical guide to the design, conduction, analysis and reporting of clinical trials with anticancer drugs. Pancreatic cancer is the fourth leading cause of cancer death in the United States. Every year, about 33,700 people in the United States will be diagnosed with pancreatic cancer and over 32,000 patients will die from the disease. The median survival of patients with advanced pancreatic cancer is about 6-months. This dismal picture of pancreatic cancer is mainly due to the lack of early diagnosis and effective treatment for patients with advanced disease. To increase the survival rate of pancreatic cancer patients, better tumor markers for diagnosis and new molecular targets for drug development are desperately needed. A lot of effort has been made in searching for pancreatic cancer-causing genes or genes associated with progression of malignant behavior in pancreatic cancer. As a result, alterations in the expression of several cancer-related genes have been identified in pancreatic tumors. The identification and characterization of these cancer-related genes have significantly increased our understanding of pancreatic cancer development, but unfortunately the treatment of pancreatic cancer has not advanced as much in the past 20 years. Over the past decade, tremendous advances have been made in the field of cancer drug discovery, particularly, in the area of molecular and genetic models and technologies. Many of those advanced models and technologies have been applied to the drug discovery processes for pancreatic cancer. In this book, a team of experts will describe the latest development in the application of these models and technologies in pancreatic cancer. The authors include basic researchers as well as clinicians who work in the front-line of the war against pancreatic cancer and have the first-hand experience on these cutting-edge tools and techniques. The book can be divided into two general areas: 1) model systems and 2) genomics and proteomics tools. In recent years there have been a lot of advances in the model systems for pancreatic cancer, including the further characterization of normal and cancerous pancreatic cell lines, the establishment of transgenic mouse models that recapitulate the initiation and progression of human pancreatic cancer, the development of a new xenograft model system for the evaluation of novel agents, and the establishment of a zebrafish pancreatic cancer model. The first four chapters of the book will be devoted to these models. The advances in genomics and proteomics research have made a major impact in cancer drug discovery. A number of these –omics-based tools and techniques have been applied in the pancreatic cancer drug discovery. Chapters 5-9 of the book will discuss techniques for genome-wide examination of gene expression, copy number, methylation, function and regulation. Chapters 10-11 will discuss in situ techniques for studying chromosomal and gene copy number abnormalities as well protein expression changes in cancer samples. Chapters 12-14 will focus on techniques for global examination of protein expression levels in biospecimens obtained from pancreatic cancer patients. Cancer drug discovery has become more and more target-centric. This volume provides a biological and pharmacological background for regional cancer therapy, strategies and techniques for regional therapies, and specific indications and results for different tumor entities. Clinical trial concepts and detailed treatment protocols are also presented. This book is essential reading for researchers and clinicians engaged in seeking advanced therapeutic options for cancer patients worldwide. Frontiers in Anti-Cancer Drug Discovery is an eBook series devoted to publishing the latest and the most important advances in Anti-Cancer drug design and discovery. Eminent scientists write contributions on all areas of rational drug design and drug discovery including medicinal chemistry, in-silico drug design, combinatorial chemistry, high-throughput screening, drug targets, recent important patents, and structure-activity relationships. The eBook series should prove to be of interest to all pharmaceutical scientists involved in research in Anti-Cancer drug design and discovery. Each volume is devoted to the major advances in Anti-Cancer drug design and discovery. The eBook series is essential reading to all scientists involved in drug design and discovery who wish to keep abreast of rapid and important developments in the field. The sixth volume of the series features chapters on several topics including: - Monocarboxylate transporters as anti-cancer drug targets - Interferon α-2b treatment for hepatocellular carcinoma - Anthracyclines in cancer therapy - Magnetosomes and tumor therapy ...and more. This book explains how current medicines against cancer work and how we find new ones. It provides an easy-to-understand overview of current options to treat patients with cancer, which includes Surgery, Radiation therapy, Chemotherapy, Targeted therapy and Immunotherapy. The efficiency of all these treatments is limited by the capacity of cancer cells to escape therapy. This book explains the mechanisms of anti-cancer drug resistance and strategies to overcome it. The discovery and development process of a new drug is detailed beginning with the identification and validation of a therapeutic target, the identification of an inhibitor of the target and its subsequent preclinical and clinical development until its approval by regulatory authorities.

Particular emphasis has been given to specific aspects of the development process including lead generation and optimization, pharmacokinetics, ADME analysis, pharmacodynamics, toxicity and efficacy assessment, investigational new drug (IND) and new drug application (NDA) and the design of clinical trial and their phases. The book covers many aspects of modern personalized oncology and discusses economic aspects of our current system of developing new medicines and its impact on our societies and on future drug research. The author of this book, Dr. Link counts with more than 20 years of experience in biomedical research reflected in numerous publications, patents and key note and plenary presentations at international conferences. Interested readers, students and teachers should read this book as it provides a unique way to learn/teach about basic concepts in oncology and anti-cancer drug research. While drug therapies developed in the last 80 years have markedly improved treatment outcomes and the management of some types of cancers, the lack of effectiveness and side effects associated with the most common treatment types remain unacceptable. However, recent technological advances are leading to improved therapies based on targeting distinct biological pathways in cancer cells. Chemistry and Pharmacology of Anticancer Drugs is a comprehensive survey of all families of anticancer agents and therapeutic approaches currently in use or in advanced stages of clinical trials, including biological-based therapies. The book is unique in providing molecular structures for all anticancer agents, discussing them in terms of history of development, chemistry, mechanism of action, structure–function relationships, and pharmacology. It also provides relevant information on side effects, dosing, and formulation. The authors, renowned scientists in cancer research and drug discovery, also provide up-to-date information on the drug discovery process, including discussions of new research tools, tumor-targeting strategies, and fundamental concepts in the relatively new areas of precision medicine and chemoprevention. Chemistry and Pharmacology of Anticancer Drugs is an indispensable resource for cancer researchers, medicinal chemists and other biomedical scientists involved in the development of new anticancer therapies. Its breadth of coverage, clear explanations, and illustrations also make it suitable for undergraduate and postgraduate courses in medicine, pharmacy, nursing, dentistry, nutrition, the biomedical sciences, and related disciplines. Key Features: Summarizes the fundamental causes of cancer, modes of treatment, and strategies for cancer drug discovery Brings together a broad spectrum of information relating to the chemistry and pharmacology of all families of anticancer agents and therapies Includes up-to-date information on cutting-edge aspects of cancer treatments such as biomarkers, pharmacogenetics, and pharmacogenomics Features new chapters on the "Evolution of Anticancer Therapies", "Antibody-Based Therapies", and "Cancer Chemoprevention" Leading experts survey the currently available technologies designed to improve the delivery of today's cancer chemotherapeutic agents. The authors review both the theoretical and practical considerations governing conventional and nonconventional methods of drug administration, and identify promising opportunities for product development. In their outline and discussion of the use of novel formulation technologies-including synthetic polymers and biomaterials for prolonged or sustained drug release to achieve potentially greater therapeutic effect-they profile those technologies that have resulted in a number of approved and late-stage clinical products. Cisplatin, the first member of the family of platinum-containing chemotherapeutic agents, was discovered by Barnett Rosenberg in 1965 and approved by the FDA for marketing in 1978. After 30 years of use in the clinic, cisplatin remains a central element of many treatment regimens. Cisplatin is still an irreplaceable component of a regimen that produces high cure rates in even advanced nonseminomatous germ-cell cancers, and is widely used in the treatment of ovarian cancers and other gynecologic cancers, head and neck, and numerous other tumor types. The development of carboplatin has reduced some of the adverse events associated with cisplatin treatment, and the introduction of the DACH platinum compound oxaliplatin has broadened the spectrum of activity of the platinums to include gastro-intestinal cancers, especially colorectal cancer. The clinical importance of this family of drugs continues to drive investigation into how these drugs work and how to improve their efficacy and reduce their toxicity. The papers in this volume were presented in Verona, Italy, during the tenth International Symposium on Platinum Coordination Compounds in Cancer Chemotherapy. The symposium was jointly organized by the Department of Oncology of the Mater Salutis Hospital – Azienda Sanitaria Locale 21 of the Veneto Region – and by the Department of Medicine and Public Health, Section of Pharmacology, the University of Verona. They reflect the vitality of this field and the increasing use of new molecular and cell biologic, genetic, and biochemical tools to identify approaches to further improve their use.

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