



MOLECULAR CANCER THERAPEUTICS

STRATEGIES
FOR
DRUG
DISCOVERY
AND
DEVELOPMENT

EDITED BY
GEORGE C. PRENDERGAST

Molecular Cancer Therapeutics Strategies For Drug Discovery And Development

O García



Molecular Cancer Therapeutics Strategies For Drug Discovery And Development:

Molecular Cancer Therapeutics Prendergast, 2004 *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 *Molecular Biology of Human Cancers* Wolfgang Schulz, 2005-02-09 Cancer research is now an interdisciplinary effort requiring a basic knowledge of commonly used terms facts issues and concepts This interdisciplinary book meets this need providing an authoritative overview to the field It presents many of the molecules and mechanisms generally important in human cancers and examines a broad but exemplary selection of cancers In addition cancer research has now reached a critical stage in which the accumulated knowledge on molecular mechanisms is gradually translated into improved prevention diagnosis and treatment This book summarizes the state pitfalls and potential of these efforts **An Introduction to Molecular Biotechnology** Michael Wink, 2006-10-02 On 800 pages this textbook provides students and professionals in life sciences pharmacy and biochemistry with a very detailed introduction to molecular and cell biology including standard techniques key topics and biotechnology in industry **In Vivo MR Techniques in Drug Discovery and Development** Nicolau Beckman, 2006-06-02 Imaging technologies are receiving much attention in the pharmaceutical industry because of their potential for accelerating drug discovery and development Magnetic Resonance MR Imaging is one of the principal modalities since it allows anatomical functional metabolic and to a certain extent even target related information to be gathered in vivo *Biotechnology and Cancer Therapeutics* Manisha Nigam, Abhay Prakash Mishra, 2025-05-13 This book explores new ground in the field of cutting edge cancer treatment modalities by presenting contemporary biotechnological developments as a component of cancer targeting techniques It addresses the application of modern technologies in cancer detection targeting and the development of therapeutic strategies across fifteen comprehensive chapters The book emphasizes the advantages of molecular techniques for cancer therapies such as molecular diagnosis cell and gene therapy and immunotherapy with a dedicated chapter on personalized cancer therapy to critically analyze the progression toward precision strategies The chapters cover topics such as molecular biomarkers microRNAs and the potential of nanomedicine in cancer treatment The authors provide expert analysis on the latest research offering insights into the outcomes of scientific and clinical trials Readers will also discover discussions on drug resistance novel molecular targets and the integration of biotechnology in drug discovery and development Particular attention is given to the role of epigenetics and RNA interference in cancer therapy as well as the challenges and future prospects of personalized medicine This book is designed specifically for oncologists cancer biologists researchers academicians and

students interested in understanding the most cutting edge biotechnological aspects of cancer therapeutics It offers a comprehensive overview of cancer prevention therapeutics and treatments through the perspectives of technology medicine and alternative therapies Researchers in the field of biotechnology and cancer therapy will find this book invaluable for its detailed discussions and insights into the latest advancements It serves as a crucial tool for those working in this area providing a valuable resource for understanding the complexities of cancer therapies and fostering progress in the field

Computational Methods in Drug Discovery and Repurposing for Cancer Therapy Ganji Purnachandra

Nagaraju,Venkatesan Amouda,Ampasala Dinakara Rao,2023-03-22 Computational Methods in Drug Discovery and Repurposing for Cancer Therapy provides knowledge about ongoing research as well as computational approaches for drug discovery and repurposing for cancer therapy The book also provides detailed descriptions about target molecules pathways and their inhibitors for easy understanding and applicability The book discusses tools and techniques such as integrated bioinformatics approaches systems biology tools molecular docking computational chemistry artificial intelligence machine learning structure based virtual screening biomarkers and transcriptome those are discussed in the context of different cancer types such as colon pancreatic glioblastoma endometrial and retinoblastoma among others This book is a valuable resource for researchers students and members of the biomedical and medical fields who want to learn more about the use of computational modeling to better tailor the treatment for cancer patients Discusses in silico remodeling of effective phytochemical compounds for discovering improved anticancer agents for substantial significant cancer therapy Covers potential tools of bioinformatics that are applied toward discovering new targets by drug repurposing and strategies to cure different types of cancers Demonstrates the significance of computational and artificial intelligence approaches in anticancer drug discovery Explores how these various advances can be integrated into a precision and personalized medicine approach that can eventually enhance patient care

Frontiers in Anti-Cancer Drug Discovery Atta-ur-Rahman,M. Iqbal

Choudhary,2014-05-12 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 for all scientists involved in drug design and discovery who wish to keep abreast of rapid and important developments in the field

Measuring Biological Responses with Automated Microscopy ,2006-11-02 The critically acclaimed laboratory standard for more than forty years Methods in Enzymology is one of the most highly respected publications in the field of biochemistry Since 1955 each volume has been eagerly awaited frequently consulted and praised by researchers and

reviewers alike Now with more than 300 volumes all of them still in print the series contains much material still relevant today truly an essential publication for researchers in all fields of life sciences *Experimental and Computational Methods in the Development of Diagnostics and Therapeutics for Colon Cancer*, 2025-03-03 Cancer continues to be one of the major causes of illness and death worldwide Cancer is growing at a shocking speed and touches every geographic region of the world It is predicted that by 2030 there will be 21.7 million new cases and 13 million deaths To overcome this problem efficiently and to make significant progress in cancer research and therapy both the scientific and healthcare sectors must work together Recent advancements in the development of AI based methods i.e. ensemble or stacking algorithms to discover novel biomarkers using gene expression and other data provide greater opportunity for complete data analysis to decipher the mechanism of colon cancer initiation progression and metastasis In cancer therapy and precision medicine drug discovery is critical The surge of omics data over the previous decade has allowed for experimental and computational prediction of anti cancer therapies and enhanced drug discovery The goal is therefore to both experimentally and computationally investigate the novel biomarkers in the development of colon cancer and drug resistance Then novel drug targets biomarkers may help to overcome the problem of drug resistance in cancer The most advanced experimental and computational techniques particularly using artificial intelligence and machine learning methods can be implemented to predict the structural implications of mutations This will be beneficial in understanding mechanisms of drug resistance and the discovery of novel biomarkers and drugs *Recent Advances in Molecular Targets for Drug Discovery and Delivery in Tumor* Sanjun Shi, Jianxun Ding, Xianjue Chen, Jingxin Mo, Zhi-xiang Yuan, 2022-05-05 *Computational Methods for Rational Drug Design* Mithun Rudrapal, 2025-02-05 Comprehensive resource covering computational tools and techniques for the development of cost effective drugs to combat diseases with specific disease examples *Computational Methods for Rational Drug Design* covers the tools and techniques of drug design with applications to the discovery of small molecule based therapeutics detailing methodologies and practical applications and addressing the challenges of techniques like AI ML and drug design for unknown receptor structures Divided into 23 chapters the contributors address various cutting edge areas of therapeutic importance such as neurodegenerative disorders cancer multi drug resistant bacterial infections inflammatory diseases and viral infections Edited by a highly qualified academic with significant research contributions to the field *Computational Methods for Rational Drug Design* explores topics including Computer assisted methods and tools for structure and ligand based drug design virtual screening and lead discovery and ADMET and physicochemical assessments In silico and pharmacophore modeling fragment based design de novo drug design and scaffold hopping network based methods and drug discovery Rational design of natural products peptides enzyme inhibitors drugs for neurodegenerative disorders anti inflammatory therapeutics antibacterials for multi drug resistant infections and antiviral and anticancer therapeutics Protac and prodrug strategies in drug design intrinsically disordered proteins IDPs in drug discovery and lung

cancer treatment through ALK receptor targeted drug metabolism and pharmacokinetics Helping readers seamlessly navigate the challenges of drug design Computational Methods for Rational Drug Design is an essential reference for pharmaceutical and medicinal chemists biochemists pharmacologists and phytochemists along with molecular modeling and computational drug discovery professionals

New Frontiers in Cancer Therapies: Focus on Transcription Factors, GTPases, Phosphatases and GPCRs, 2018-2030 Roots Analysis, 2018-05-01 The New Frontiers in Cancer Therapies Focus on Transcription Factors GTPases Phosphatases and GPCRs 2018 2030 report provides a comprehensive study on the current market and therapeutic potential of the various pharmacological interventions designed against difficult to modulate cancer targets It features an elaborate discussion on the future potential of this evolving domain focusing on phosphatases transcription factors small GTPases specifically Ras family and undruggable G protein coupled receptors GPCRs One of the key objectives of the study was to review and quantify the future opportunity for the ongoing product development programs of both small and big pharmaceutical firms Amongst other elements the report features 1 A detailed assessment of the current market landscape of drugs being developed against various undruggable cancer targets featuring information on the developer phase of development clinical preclinical or discovery stage of product candidate s information on type of molecule s biological target s mechanism of action route of administration and key therapeutic indication s 2 Elaborate profiles of key companies selected based on pipeline strength each profile features an overview of the company details on its product portfolio technology overview wherever applicable detailed information on advanced stage pipeline candidates featuring a drug overview clinical trial information and recent developments and a comprehensive future outlook 3 A section on emerging technologies and platforms that are aiding the development of therapies capable of targeting biological molecules which were previously considered as undruggable 4 A detailed publication analysis on more than 70 research articles that have been published between January 2014 and March 2018 highlighting the key focus areas biological targets and indications of the ongoing research activity in this field 5 An analysis of the partnerships that have been established in this domain in the recent past covering R these include A a bull s eye analysis highlighting the distribution of pipeline candidates in terms of phase of development type of target family and type of molecule B a three dimensional and five dimensional spider web analyses of candidate therapeutics based on different parameters namely number of publications grants awarded to promote development active clinical trials current phase of development and the number of companies developing drugs against various undruggable targets and C a world map representation depicting the most active geographies in terms of the presence of companies developing drug candidates against difficult to modulate cancer targets

Drug-delivery systems of phytochemicals as therapeutic strategies in cancer therapy Akhileshwar Kumar Srivastava, Divya Singh, Rajesh Kumar Singh, 2023-11-07 Phytochemicals and derivatives have become promising alternatives to increase treatment potential in cancer patients with minimal side effects Drug delivery Systems of Phytochemicals as Therapeutic Strategies in Cancer

Therapy elucidates the importance of various phytochemicals in cancer therapy and explains various routes methods to deliver phytochemicals for overcoming the problems associated with delivery system in cancer treatment Several nanotechnological methods are followed to enhance drug solubility sustainability bioavailability and gastrointestinal permeability of these phytochemicals The advanced field of drug delivery systems explains that combination therapy for cancer treatment has important benefits over mono delivery therapeutics Natural compounds because of their biobased origin have drawn higher attention than synthetic drugs Synthesis of nano phytomedicines has impacted the bioavailability of phytochemicals Novel formulations have been synthesized loaded with phytochemicals and have revealed extraordinary results in treatment of various cancers Current understanding of the relevant information presented in Drug delivery systems of phytochemicals as therapeutic strategies in cancer therapy fulfils the requirements of oncologists molecular biologists pharmacologist and related researchers who want to work in the areas of drug development targeting phytochemicals for cancer therapy Explains the significance of phytochemicals in cancer therapy along with their pharmacologic action Elucidates the importance of various phytochemicals in cancer therapy Explains the emerging need of drug delivery system for plant metabolites Deciphers the various drug delivery systems for phytomedicines involved in cancer treatments Describes the crucial role of nanotechnology in the development of drug delivery systems for anticancer phytochemicals Explores the challenges associated with developing drug delivery systems for phytochemicals to cure cancer

Tumour microenvironment in cancer research and drug discovery Syed Mahmood ,Nur Akmarina Mohd Said ,Kenneth K. W. To,2024-05-10 The implication of tumour microenvironment TME on cancer progression and therapeutic response has profoundly shifted the paradigms of molecular cancer research and drug discovery The intricate networks of immune inflammatory cells and signalling cancer associated fibroblasts endothelial cells and adipose cells are extensively researched for diagnostics therapeutics and predictive values This includes siRNA and miRNA nanotherapeutics targeting these molecular components owing to their powerful gene silencing properties Despite the concerted effort in the development of drug targeting TME such as BLZ945 a colony stimulating factor 1 receptor inhibitor there is a void in clinically satisfactory drug to target this intricate factor thus far

Combinatorial Approaches for Cancer Treatment: from Basic to Translational Research Daniela Spano,Aniello Cerrato,George Mattheolabakis,2022-03-03

Pharmaceutical Biotechnology Carlos A. Guzmán,Giora Z. Feuerstein,2010-01-01 Pharmaceutical Biotechnology is a unique compilation of reviews addressing frontiers in biologicals as a rich source for innovative medicines This book fulfills the needs of a broad community of scientists interested in biologicals from diverse perspectives basic research biotechnology protein engineering protein delivery medicines pharmaceuticals and vaccinology The diverse topics range from advanced biotechnologies aimed to introduce novel potent engineered vaccines of unprecedented efficacy and safety for a wide scope of human diseases to natural products small peptides and polypeptides engineered for discrete prophylaxis and therapeutic purposes Modern

biologicals promise to dramatically expand the scope of preventive medicine beyond the infectious disease arena into broad applications in immune and cancer treatment as exemplified by anti EGFR receptors antibodies for the treatment of breast cancer. The exponential growth in biologicals such as engineered proteins and vaccines has been boosted by unprecedented scientific breakthroughs made in the past decades culminating in an in depth fundamental understanding of the scientific underpinnings of immune mechanisms together with knowledge of protein and peptide scaffolds that can be deliberately manipulated. This has in turn led to new strategies and processes. Deciphering the human mammalian and numerous pathogens genomes provides opportunities that never before have been available: identification of discrete antigens, genomes and antigenomes that lend themselves to considerably improved antigens and monoclonal antibodies which with more sophisticated engineered adjuvants and agonists of pattern recognition receptors present in immune cells deliver unprecedented safety and efficacy. Technological development such as nanobiotechnologies, dendrimers, nanobodies and fullerenes, biological particles, viral like particles and bacterial ghosts and innovative vectors, replication competent, attenuated, replication incompetent, recombinant and defective helper dependent vectors fulfill a broad range of cutting edge research, drug discovery and delivery applications. Most recent examples of breakthrough biologicals include the human papilloma virus vaccine HPV, prevention of women genital cancer and the multivalent Pneumococcal vaccines which has virtually eradicated in some populations a most prevalent bacterial ear infection i.e. otitis media. It is expected that in the years to come similar success will be obtained in the development of vaccines for diseases which still represent major threats for human health such as AIDS as well as for the generation of improved vaccines against diseases like pandemic flu for which vaccines are currently available. Furthermore, advances in comparative immunology and innate immunity revealed opportunities for innovative strategies for ever smaller biologicals and vaccines derived from species such as llama and sharks which carry tremendous potential for innovative biologicals already in development stages in many pharmaceutical companies. Such recent discoveries and knowledge exploitations hold the promise for breakthrough biologicals with the coming decade. Finally, this book caters to individuals not directly engaged in the pharmaceutical drug discovery process via a chapter outlining discovery, preclinical development, clinical development and translational medicine issues that are critical to the drug development process. The authors and editors hope that this compilation of reviews will help readers rapidly and completely update knowledge and understanding of the frontiers in pharmaceutical biotechnologies.

Epigenetic Approaches in Drug Discovery, Development and Treatment Shibashish Giri, Chandravanu Dash, 2020-08-07. Establishment of a normal phenotype involves dynamic epigenetic regulation of gene expression that when affected contributes to human diseases. On a molecular level, epigenetic regulation is marked by specific covalent modifications: acetylation, methylation, phosphorylation, sumoylation, PARYlation and ubiquitylation of DNA and its associated histones. Studies also suggest the influence of such epigenetic modifications on non coding RNA expression implicated in normal and diseased phenotypes.

Epigenetic control of genetic expression is a reversible process essential for normal development and function of an organism. Alteration of epigenetic regulation leads to various disease forms such as cancer, diabetes, inflammation, and neuropsychiatric disorders. Assessing these alterations provides a deeper insight into the changes induced in the genome, which is often informative for identifying disease subtypes or developing suitable treatments. Therefore, epigenetics proves to be a key area of clinical investigation in diagnosis, prognosis, and treatment of complex diseases. Genetic mutations, environmental stress, pathogens, and drugs of abuse are some of the predominant factors that induce and impact changes on chromatin, which directly dictate a diseased phenotype. It is essential to consider the interaction between genetic and epigenetic factors to understand the molecular mechanisms of complex human diseases for safer and efficient drug development. Furthermore, genetic variation in absorption, distribution, metabolism, and excretion (ADME) genes is insufficient to account for interindividual variability of drug response. Therefore, current efforts aim to identify epigenetic components of ADME gene regulation, which include phase I and phase II enzymes, uptake transporters, efflux transporters, and nuclear receptors involved in regulation of ADME genes. Monitoring circulatory epigenetic biomarkers in liquid biopsies, blood, saliva, urine, cerebrospinal fluid, of disease-associated and drug-associated epigenetic alterations may prove useful for decision support for routine clinical treatment and drug discovery. Hence, recent drug discovery efforts on targeting the epigenome have emerged as an area of interest, with several new drugs being developed, tested, and some already approved by the US Food and Drug Administration (FDA). These new insights into the complexities of epigenetic regulation are key contributors to our basic understanding of this process in human health and disease, which will provide scope for innovative drug therapies. It is of urgency to aid the present understanding of epigenomics-driven diseased outcomes with the expectation that further studies will identify early markers of disease and targets for therapeutics.

Frontiers in Clinical Drug Research - Anti-Cancer Agents Atta-ur-Rahman, 2016-05-31. *Frontiers in Clinical Drug Research: Anti-Cancer Agents* is an eBook series intended for pharmaceutical scientists, postgraduate students, and researchers seeking updated and critical information for developing clinical trials and devising research plans in anti-cancer research. Reviews in each volume are written by experts in medical oncology and clinical trials research and compile the latest information available on special topics of interest to oncology researchers. The third volume of the eBook series begins with a detailed review of the molecular biology of inhibitors that target EGF family receptors. This review is divided into two parts that covers extracellular and intracellular molecules. Other reviews cover targeted therapies for cancers such as melanoma, follicular lymphoma, and topics such as cancer immunotherapy, apoptosis targeting, and the Warburg Effect.

Principles of Clinical Pharmacology Shiew-Mei Huang, Juan J.L. Lertora, Arthur J. Atkinson Jr., 2012-09-18. *Principles of Clinical Pharmacology* is a successful survey covering the pharmacologic principles underlying the individualization of patient therapy and contemporary drug development. This essential reference continues to focus on the basics of clinical pharmacology for the development, evaluation, and clinical use.

of pharmaceutical products while also addressing the most recent advances in the field Written by leading experts in academia industry clinical and regulatory settings the third edition has been thoroughly updated to provide readers with an ideal reference covering the wide range of important topics impacting clinical pharmacology as the discipline plays an increasingly significant role in drug development and regulatory science The Third Edition has been endorsed by the American Society for Clinical Pharmacology and Therapeutics Includes new chapters on imaging and the pharmacogenetic basis of adverse drug reactions Offers an expanded regulatory section that addresses US and international issues and guidelines Provides extended coverage of earlier chapters on transporters pharmacogenetics and biomarkers and also illustrates the impact of gender on drug response Presents a broadened discussion of clinical trials from Phase 1 to incorporate Phases II and III

The Heterogeneity of Cancer Metabolism Anne Le, 2021-05-20 This open access volume will introduce recent discoveries in cancer metabolism since the publication of the first edition in 2018 providing readers with an up to date understanding of developments in the field Genetic alterations in cancer in addition to being the fundamental drivers of tumorigenesis can give rise to a variety of metabolic adaptations that allow cancer cells to survive and proliferate in diverse tumor microenvironments This metabolic flexibility is different from normal cellular metabolic processes and leads to heterogeneity in cancer metabolism within the same cancer type or even within the same tumor In this book the authors delve into the complexity and diversity of cancer metabolism and highlight how understanding the heterogeneity of cancer metabolism is fundamental to the development of effective metabolism based therapeutic strategies for cancer treatment Deciphering how cancer cells utilize various nutrient resources will enable clinicians and researchers to pair specific chemotherapeutic agents with patients who are most likely to respond with positive outcomes allowing for more cost effective and personalized cancer treatment This book has four major parts Part one will cover the basic metabolism of cancer cells followed by a discussion of the heterogeneity of cancer metabolism in part two Part three addresses the relationship between cancer cells and cancer associated fibroblasts and the new part four will explore the metabolic interplay between cancer and other diseases This new section makes the book unique from other texts currently available on the market The second edition will be useful for cancer metabolism researchers cancer biologists epidemiologists physicians health care professionals in related disciplines policymakers marketing and economic strategists among others It may also be used in courses such as intro to cancer metabolism cancer biology and related biochemistry courses for undergraduate and graduate students

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