

Drug Discovery in Pancreatic Cancer

MODELS AND TECHNIQUES

Haiyong Han
Paul Grippo

Editors

 Springer

Drug Discovery In Pancreatic Cancer Models And Techniques

**American Society of Clinical Oncology.
Meeting**



Drug Discovery In Pancreatic Cancer Models And Techniques:

Drug Discovery in Pancreatic Cancer Haiyong Han, Paul Grippo, 2010-03-11 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

New Approaches to Drug Discovery Ulrich Nielsch, Ulrike Fuhrmann, Stefan Jaroch, 2016-03-30 This volume gives an overview of state of the art technologies and future developments in the field of preclinical pharmaceutical research A balanced mix of experts from academia and industry give insight in

selected new developments in the drug discovery pathway The topics cover the different parts of the drug discovery process starting with new developments in the target identification and validation area The lead generation part as a next step focuses on the requirements and technologies to identify new small molecules as lead compounds for further optimization in a second section the technologies to identify biologics as leads are addressed The final part focuses on the pharmacological models and technologies to characterize new compounds and the impact of biomarkers to facilitate the transfer of drug candidates into the development phase

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 has emerged 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

Preclinical Models and Emerging Technologies to Study the Effects of the Tumor Microenvironment on Cancer Heterogeneity and

Drug Resistance Giulia Adriani, Paola Cappello, Sara Lovisa, 2023-10-26 *Molecular Diagnostics and Treatment of Pancreatic Cancer* Asfar Azmi, 2014-04-14 *Molecular Diagnostics and Treatment of Pancreatic Cancer* describes the different emerging applications of systems biology and how it is shaping modern pancreatic cancer research This book begins by introducing the current state of the art knowledge trends in diagnostics progress in disease model systems as well as new treatment and palliative care strategies in pancreatic cancer Specific sections are dedicated to enlighten the readers to newer discoveries that have emerged from gene expression profiling proteomics metabolomics and systems level analyses of pancreatic cancer datasets First of a kind and novel network strategies to understand oncogenic Kras signaling in pancreatic tumors are presented The attempts to computationally model and prioritize microRNAs that cause pancreatic cancer resistance are also highlighted Addressing this important area *Molecular Diagnostics and Treatment of Pancreatic Cancer* provides insights into important network evaluation methodologies related to pancreatic cancer related microRNAs targetome There are dedicated chapters on critical aspects of the evolving yet controversial field of pancreatic cancer stem cells The work concludes by discussing the applications of network sciences in pancreatic cancer drug discovery and clinical trial design Encompasses discussion of innovative tools including expression signatures in cell lines 3D models animal xenograft models primary models and patient derived samples aiding subversion of traditional biology paradigms and enhancing comprehension across conventional length and temporal scales Coverage includes novel applications in targeted drugs polypharmacology network pharmacology and other related drug development arenas helping researchers in pancreatic cancer drug discovery Summarizes many relevant computational and clinical references from fast evolving literature Comprehensive glossary helps newer readers understand technical terms and specialized nomenclature *Conn's Handbook of Models for Human Aging* Jeffrey L. Ram, P. Michael Conn, 2018-04-05 Conn's Handbook of Models for Human Aging Second Edition presents key aspects of biology nutrition factors affecting lifespan methods of age determination use in research and the disadvantages advantages of use Using a multidisciplinary approach this updated edition is designed as the only comprehensive current work that covers the diversity in aging models Chapters on comparative models explore age related diseases including Alzheimer's joint disease cataracts cancer and obesity Also included are new tricks and approaches not available in primary publications This must have handbook is an indispensable resource for researchers interested in the mechanisms of aging gerontologists health professionals allied health practitioners and students Combines both the methods of study for human aging and animal models Provides a historical overview and discussion of model availability key methods and ethical issues Contains over 200 full color illustrations [Methods in Head and Neck Cancer](#) Thomas Gander, Lorenz Kadletz-Wanke, 2024-04-22 *Frontiers in Oncology* is delighted to present the *Methods in* series of article collections *Methods in Head and Neck Cancer* will publish high quality methodical studies on key topics in the field It aims to highlight recent advances in the field whilst emphasizing important directions and new possibilities for future

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Pathak,Antara Banerjee,2023-11-01 Cancer Stem Cells and Signaling Pathways explores the mechanism of cancer stem cell signaling pathways in cancer advancement serving as an ideal reference guide for investigators with valuable answers to problems associated with anti cancer treatments and an understanding of the crosstalk among the signaling pathways in CSC regulation Despite recent advances in tumor therapy and a greater understanding of their biology tumors continue to be a prevalent and fatal worldwide According to a novel paradigm in tumor biology a small percentage of the cells within a tumor known as cancer stem cells CSCs are predicted as a crucial population for tumor progression Presents cancer stem characteristics and their signaling pathways Highlights the use of animal models for cancer research the use of genetically modified stem cells to deliver antitumor agents and the significance of stem cell signaling in drug discovery Covers basic and translational research appropriate for scientists and clinicians exploring alternative treatments for various cancers

Innovations in Imaging for Early Diagnosis and Monitoring for Patients With Gastrointestinal Cancer Stephen J.

Pandol,Debiao Li,Temel Tirkes,2022-04-25 **Cancer Research** ,2006-08 **Annual Meeting Proceedings** American Society of Clinical Oncology. Meeting,2009 **Anticancer Research** ,2009 *The Cancer Handbook* Malcolm Alison,2007

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