

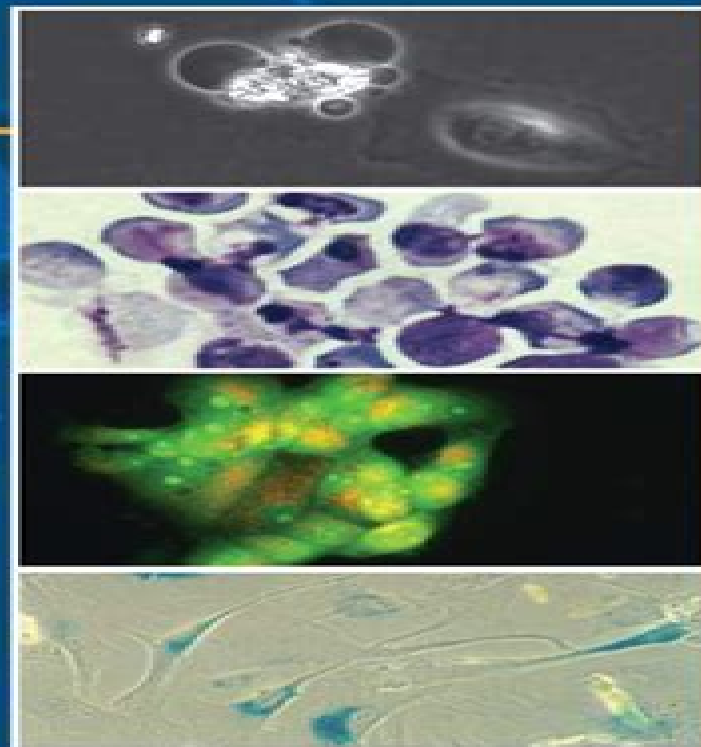
Apoptosis, Senescence, and Cancer

SECOND EDITION

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 HUMANA PRESS



Apoptosis Senescence And Cancer Cancer Drug Discovery And Development

Wenyu Wang,Jing Tang,Kecheng Zhou

Apoptosis Senescence And Cancer Cancer Drug Discovery And Development:

Apoptosis, Senescence and Cancer David A. Gewirtz, Shawn E. Holt, Steven Grant, 2007-12-17 Provides insight into established practices and research into apoptosis and senescence by examining techniques and research in the fields of cell death pathways senescence growth arrest drugs and resistance DNA damage response and other topics which still hold mysteries for researchers This book concludes with established cancer therapies Modeling and Parameter Estimation for Heterogeneous Cell Populations Jan Hasenauer, 2013 Most of the modeling performed in biology aims at achieving a quantitative description and understanding of the intracellular signaling pathways within a typical cell However in many biologically important situations even genetically identical cell populations show a heterogeneous response This means that individual members of the cell population behave differently Such situations require the study of cell to cell variability and the development of models for heterogeneous cell populations The main contribution of this thesis is the development of unifying modeling frameworks for signal transduction and proliferation processes in heterogeneous cell populations These modeling frameworks allow for the detailed description of individual cells as well as differences between them In contrast to many existing modeling approaches the proposed frameworks allow for a direct comparison of model predictions with available data Beyond this the proposed population models can be simulated efficiently and by exploiting the model structures we are able to develop model tailored Bayesian parameter estimation methods These methods enable the calculation of the optimal parameter estimates as well as the evaluation of the parameter and prediction uncertainties The proposed tools allow for novel insights in population dynamics in particular the model based characterization of population heterogeneity and cellular subgroups This is illustrated for two different application examples pro and anti apoptotic signaling which is interesting in the context of cancer therapy and immune cell proliferation *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

Ethnopharmacology in Central and Eastern Europe in the Context of Global Research Developments Judit Hohmann, Anna Karolina Kiss, Judith Maria Rollinger, Atanas G. Atanasov, 2019-07-25 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact

Checkpoint Controls and Targets in Cancer Therapy Zahid H. Siddik, 2010-03-12 Much work over the last two decades has firmly established that loss of cell cycle checkpoint regulation and resultant unabated cellular proliferation is an inherent characteristic of cancer This loss may occur through aberration in any single component involved in signal transduction pathways that orchestrate checkpoint regulation which may manifest through either a failure to activate the checkpoint or a failure to respond to the activated checkpoint In normal cells checkpoint pathways are activated when genetic or cellular homeostasis is compromised and signals are then transduced to re stabilize homeostasis and failing this to activate the apoptotic machinery to induce a cellular suicidal response This implies that both survival and cell death pathways are induced following checkpoint activation and that the final decision is dependant on the net result of integrating the two sets of signals It is intriguing that checkpoint pathways are also critical in cancer therapy to provide an apoptotic stimulus when cellular damage induced by the therapeutic agent is detected by the sensor system Therefore it is not surprising that failure in pro survival checkpoint response will render tumor cells hypersensitive to cytotoxics and conversely

failure in pro apoptotic checkpoint response will induce genetic instability and or therapeutic resistance Understanding the intricacies of checkpoint response is therefore central to the design of therapeutic regimen that will enhance antitumor effects Although early versions of this design entail combination of cytotoxic agents with cell cycle or checkpoint inhibitors a greater understanding of the concepts could make such combinations clinically more effective The contributions in this book will consolidate the current state of knowledge on checkpoint responses that may lay the foundation for hypothesis driven rational approaches in advancing the management of cancer The immediate attraction of the book to the scientific community is that it represents a timely opportunity to build upon existing concepts of checkpoints to expand our understanding of the inner workings of the critical checkpoint machinery The present understanding has provided ample appreciation that response to checkpoint activation is manifested through coordinated inhibition of cyclin dependent kinase CDK complexes in G1 S and or the G2 phase in order to arrest the cell cycle Kinase inhibition can occur through several mechanisms including inhibitory phosphorylation of CDK destruction of the cognate cyclins and recruitment of CDK inhibitors from the INK and WAF1 CIP1 families However the wealth of information from recent discoveries needs to be examined critically to consolidate our conceptual knowledge of checkpoints At the same time there is acute awareness in the diversity of checkpoint response between cytotoxic agents and this serves as a reminder of the magnitude of complexity that is inherent in checkpoint regulation This volume is intended to bring the cancer research community closer toward an improved understanding of this regulation how checkpoint abnormalities can impact negatively on cancer therapy and emerging strategies to target checkpoint response as a therapeutic end point

Mouse Models of Human Cancer Eric C. Holland, 2004-08-27 Mice have become the species of choice for modeling the complex interactions between tumor cells and the host environment Mouse genetics are easily manipulated and a growing array of technology exists for this purpose Mouse models allow investigators to better understand causal relationships between specific genetic alterations and tumors utilize new imaging techniques and test novel therapies Recent developments along these lines show great promise for the development of new anti cancer treatments Mouse Models of Human Cancer provides researchers and students with a complete resource on the subject systematically presenting the principles methodologies applications and challenges associated with this exciting field Offering a survey of the latest research and a description of future areas of interest this text Presents real experimental data Describes organ site specific mouse models Clearly identifies suitable models for further drug testing Critically analyzes current methodologies and their limitations Features numerous recognizable expert contributors Lists key Web sites reagents and companies From mouse handling and genetic engineering to preclinical trials Mouse Models of Human Cancer is a comprehensive guide to using these models and relating them to human disease Its uniform presentation describes organ specific models in clinical imaging and molecular terms and lays out the relevant genetics experimental approaches histological comparisons with human disease and conclusions Combining stellar chapter

authors rich illustrations and clear up to date coverage Mouse Models of Human Cancer is an invaluable resource for advanced students and cutting edge researchers **The Drosophila Model in Cancer** Wu-Min Deng,2019-09-13 This volume provides a series of review articles that capture the advances in using the fruit fly *Drosophila melanogaster* model system to address a wide range of cancer related topics Articles in this book provide case studies that shed light on the intricate cellular and molecular mechanisms underlying tumor formation and progression Readers will discover the beauty of the fly model s genetic simplicity and the vast arsenal of powerful genetic tools enabling its efficient and adaptable use This model organism has provided a unique opportunity to address questions regarding cancer initiation and development that would be extremely challenging in other model systems This book provides a useful resource for a researcher who wishes to learn about and apply the *Drosophila* model to tackle fundamental questions in cancer biology and to find new ways to fight against this devastating disease **Issues in Pharmacology, Pharmacy, Drug Research, and Drug Innovation: 2011 Edition**

,2012-01-09 Issues in Pharmacology Pharmacy Drug Research and Drug Innovation 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Pharmacology Pharmacy Drug Research and Drug Innovation The editors have built Issues in Pharmacology Pharmacy Drug Research and Drug Innovation 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Pharmacology Pharmacy Drug Research and Drug Innovation in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Pharmacology Pharmacy Drug Research and Drug Innovation 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> *Cancer Research* ,2004

Tumori ,1999 **Functional screening for cancer drug discovery: From experimental approaches to data integration** Wenyu Wang,Jing Tang,Kecheng Zhou,2023-09-28 **CNS Cancer** Erwin G. Van Meir,2009-08-15 Cancers of the central nervous system are among the most lethal of human neoplasms They are recalcitrant to even intensive multimodality therapies that include surgery radiotherapy and chemotherapy Moreover especially in children the consequences of these therapies can itself be devastating and involve serious cognitive and developmental disorders It is small wonder that such cancers have come under the intense scrutiny of each of the subspecialties of clinical care and investigation as well as attracting some of the best basic research scientists Their joint efforts are gradually peeling away the mysteries surrounding the genesis and progression of these tumors and inroads are being steadily made into understanding why they resist therapies This makes it an especially opportune time to assemble some of the best investigators in the field to review the state of the art in the various arenas that comprise the assault on CNS tumors The breadth of this effort by the

clinical and basic neuro oncology community is quite simply amazing To a large extent it evolves from the knowledge of the human genome and its regulation that has been hard won over the past two decades Apoptosis and Cancer Therapy Klaus-Michael Debatin, Simone Fulda, 2006-03-17 Since most cancer therapies primarily act by inducing apoptosis in tumor cells insights into the molecular mechanisms regulating apoptosis are crucial to developing novel more effective treatment strategies Here a highly distinguished team of authors from top institutes around the world leads readers from the principles of programmed cell death to the role of apoptosis in cancer development and emerging treatment strategies Divided into two distinct parts the first focuses on apoptosis signaling covering in depth such topics as mitochondria effector systems the Bcl 2 family IAPs survival pathways tumor suppressor genes modulators lysosomes and phagocytosis The second section goes on to analyze apoptosis in cancer and cancer therapy with a detailed look at model systems molecular diagnosis cellular stress DNA damage and repair molecular targets and therapeutic aspects With its strong focus on recent developments in cancer therapy this book is aimed at oncologists molecular and cell biologists biochemists and those working in the pharmaceutical and biotechnological industries **Apoptosis and Cancer Chemotherapy** John A. Hickman, Caroline Dive, 1999-04-08 The past few years have witnessed an astonishing international effort that established the role of some 20 new molecules in apoptosis and added activation or suppression of apoptosis to the accepted biological functions of a great many others already familiar in cancer biology Some of these molecules are receptors transducing cytokine mediated signals others appear to intensify or diminish the risk that a compromised cell will fire its apoptosis effector mechanism All are of interest as potential targets for tumor therapy and some may prove to be control points influenced in the pathogenesis of cancer and other diseases as diverse as viral infection neurodegenerative disorders and stroke Sometimes in the midst of these developments a kind of euphoria appears to have gripped the research community with the expectation that apoptosis will afford explanations to many unsolved questions in cellular regulation This book in a series of thoughtful and provocative articles some from established leaders in the field and others from younger scientists seeks to redress the balance **Recent advances in enhancing chemotherapeutic efficacy of colorectal cancer** Xingzhe Ma, Chunyi Li, 2023-04-25

Autophagy and Senescence in Cancer Therapy, 2021-04-13 Advances in Cancer Research Volume 150 the latest release in this ongoing series covers the relationships between autophagy and senescence how they are defined and the influence of these cellular responses on tumor dormancy and disease recurrence Specific sections in this new release include Autophagy and senescence converging roles in pathophysiology Cellular senescence and tumor promotion role of the unfolded protein response autophagy and senescence in cancer stem cells Targeting the stress support network regulated by autophagy and senescence for cancer treatment Autophagy and PTEN in DNA damage induced senescence mTOR as a senescence manipulation target A forked road and more Addresses the relationship between autophagy and senescence in cancer therapy Covers autophagy and senescence in tumor dormancy Explores autophagy and senescence in disease recurrence

Nature Sir Norman Lockyer, 2004 **Graduate Programs in the Biological Sciences 2008** Peterson's Guides Staff, Peterson's, 2007-12 The six volumes of Peterson's Annual Guides to Graduate Study the only annually updated reference work of its kind provide wide ranging information on the graduate and professional programs offered by accredited colleges and universities in the United States and U S territories and those in Canada Mexico Europe and Africa that are accredited by U S accrediting bodies Books 2 through 6 are divided into sections that contain one or more directories devoted to individual programs in a particular field Book 3 contains more than 4 000 programs of study in 53 disciplines of the biological sciences **BioWorld 2001 Genomics Review** BioWorld Today Staff, 2001 Anticancer Research , 2009

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