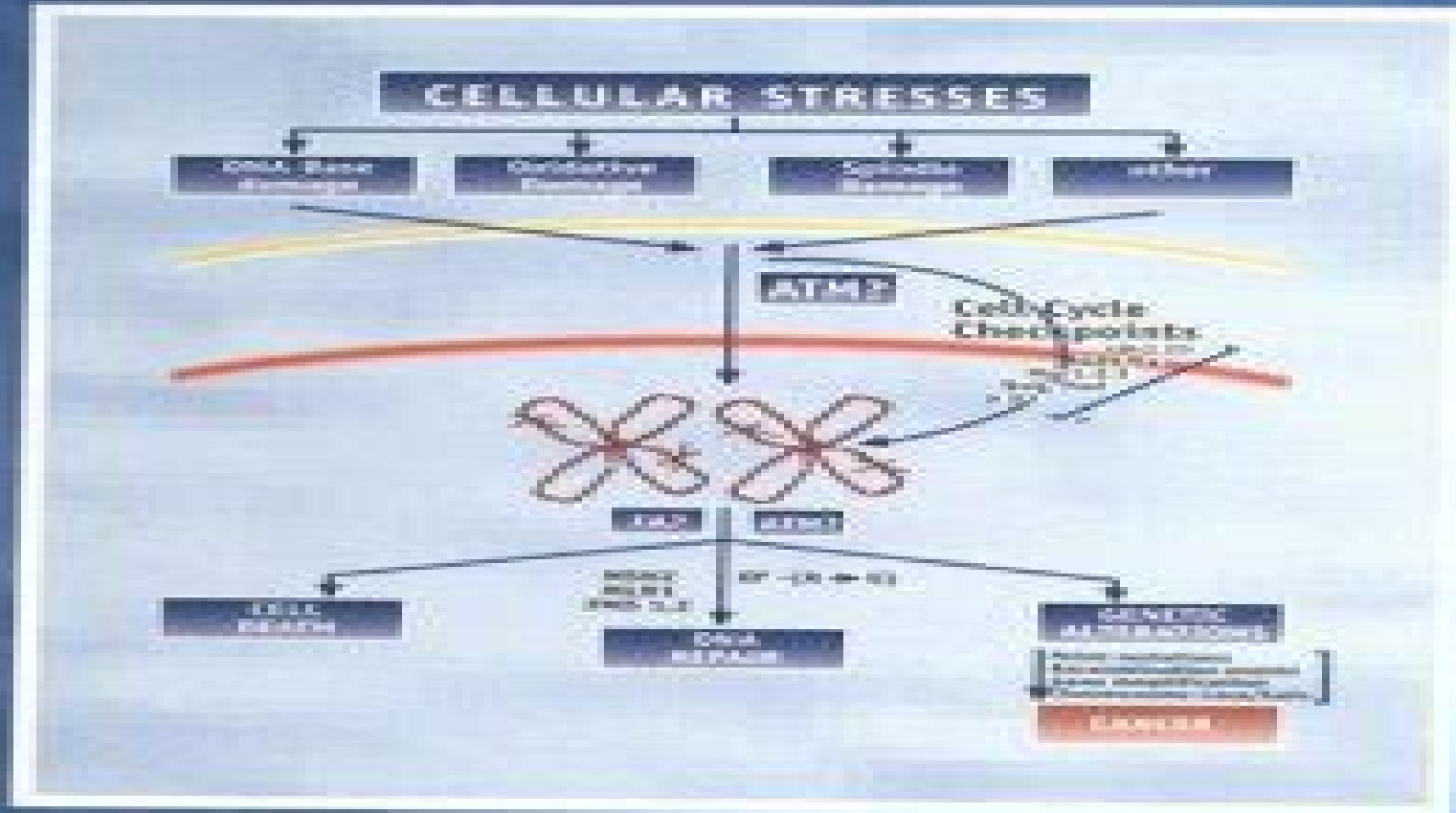


Genetic Instability and Tumorigenesis



Genetic Instability And Tumorigenesis

Hamid M. Said



Genetic Instability And Tumorigenesis:

Genetic Instability and Tumorigenesis Michael B. Kastan, 2012-12-06 M B KASTAN Cancer is a disease resulting from alterations of cellular genes which cause phenotypic changes in somatic cells. Usually when we think about genetic diseases we think about inheriting one or two abnormal genes from our parents and these gene abnormalities confer the disease phenotype. In contrast in the majority of cancers no such inherited gene abnormalities can be identified which does not mean that they do not exist and there is no obvious family history suggesting an inherited disease. The vast majority of genes which are altered in the cancer cells are not transmitted through the germ line but rather become abnormal in somatic cells sometime during the lifetime of the individual. Thus the critical question which arises is how do these genetic changes occur in somatic cells. Epidemiologic data suggest that exposure to environmental carcinogens contributes to the genesis of at least 80% of all human cancers DOLL and PETO 1981. Thus it is natural to suspect that the genetic changes in somatic cells which contribute to the transformed phenotype arise from DNA damage caused by such exposures. Therefore understanding how cells respond to DNA damaging agents is likely to be an important component of our understanding of the genesis of human tumors.

Genetic Instability and Tumorigenesis Michael B Kastan, 1996-11-12 **Genome Instability in Cancer Development** Erich A. Nigg, 2006-01-14 Research over the past decades has firmly established the genetic basis of cancer. In particular studies on animal tumour viruses and chromosome rearrangements in human tumours have concurred to identify so called proto oncogenes and tumour suppressor genes whose deregulation promotes carcinogenesis. These important findings not only explain the occurrence of certain hereditary tumours but they also set the stage for the development of anti cancer drugs that specifically target activated oncogenes. However in spite of tremendous progress towards the elucidation of key signalling pathways involved in carcinogenesis most cancers continue to elude currently available therapies. This stands as a reminder that cancer is an extraordinarily complex disease although some cancers of the haematopoietic system show only a limited number of characteristic chromosomal aberrations most solid tumours display a myriad of genetic changes and considerable genetic heterogeneity. This is thought to reflect a trait commonly referred to as genome instability so that no two cancers are ever likely to display the exact same genetic alterations. Numerical and structural chromosome aberrations were recognised as a hallmark of human tumours for more than a century. Yet the causes and consequences of these aberrations still remain to be fully understood. In particular the question of how genome instability impacts on the development of human cancers continues to evoke intense debate.

Cancer: Cell Structures, Carcinogens and Genomic Instability Leon P. Bignold, 2006 Tumors can be induced by a variety of physical and chemical carcinogens. The resulting tumor cells are usually abnormal in their morphology and behavior and transmit their abnormalities to their daughter tumor cells. Most theories of the pathogenesis of tumors suggest that carcinogens in some way cause alterations either of the genomes or of inheritable patterns of gene expression in normal cells which then cause morphological and

behavioral changes This volume presents a collection of articles aimed at the question by what genetic or epigenetic mechanisms carcinogens can cause morphological abnormalities of tumor cells It includes reviews of cellular targets of known carcinogens and presents varying viewpoints of how morphological abnormalities and the actions of carcinogens might be related The volume will be of interest to all those who are involved in cancer research or in the prevention diagnosis or management of tumors in humans or animals Genome Stability and Human Diseases Heinz-Peter Nasheuer, 2009-12-11 Since the establishment of the DNA structure researchers have been highly interested in the molecular basis of the inheritance of genes and of genetic disorders Scientific investigations of the last two decades have shown that in addition to oncogenic viruses and signalling pathways alterations genomic instability is important in the development of cancer This view is supported by the findings that aneuploidy which results from chromosome instability is one of the hallmarks of cancer cells Chromosomal instability also underpins our fundamental principles of understanding tumorigenesis It thought that cancer arises from the sequential acquisition of genetic alterations in specific genes In this hypothesis these rare genetic events represent rate limiting bottlenecks in the clonal evolution of a cancer and pre cancerous cells can evolve into neoplastic cells through the acquisition of somatic mutations This book is written by international leading scientists in the field of genome stability Chapters are devoted to genome stability and anti cancer drug targets histone modifications chromatin factors DNA repair apoptosis and many other key areas of research The chapters give insights into the newest development of the genome stability and human diseases and bring the current understanding of the mechanisms leading to chromosome instability and their potential for clinical impact to the reader **Hormonal Carcinogenesis IV** Jonathan J. Li, Sara Antonia Li, Antonio Llobart-Bosch, 2006-08-10 It has been over a decade since the First International Symposium on Hormonal Carcinogenesis convened in 1991 Since then the field has rapidly expanded with considerable progress in both breast and prostate cancers while ovarian and endometrial cancer have been hampered in part due to the absence of suitable hormone mediated animal models While knock out transgenic and cell culture systems have been extremely useful in identifying specific gene/protein alterations and the ensuing pathways affected the precise molecular mechanisms whereby sex hormones elicit their oncogenic effects still remain elusive Moreover despite the considerable progress made in breast cancer research the exact role of progestins in the presence or absence of estrogen in breast growth differentiation and malignant transformation is lacking Elucidating the incipient molecular alterations in early/pre invasive lesions elicited by these hormones is a growing important focus of this field The main purpose of these Symposia has been to address vital questions that impact our understanding of the causation dependency progression resistance and prevention of hormonally associated cancers We are indebted to the Scientific Advisory Board members who worked with us reviewing and offering suggestions to finalize the scientific program We offer special thanks for the guidance and support of Dr Gerald Mueller His wisdom played an indispensable role in maintaining the excellence of these Symposia We also acknowledge the numerous

external reviewers that worked diligently to revise and improve the quality of the manuscripts We are very grateful to Ms Tandria Price

New Research on Genomic Instability Eleanor J. Gloscow, 2007 Many cancer biologists now believe that genomic instability not only initiates carcinogenesis but also allows the tumour cell to become metastatic and evade drug toxicity The loss of stability of the genome is becoming accepted as one of the most important aspects of carcinogenesis One of the hallmarks of the cancer cell is the inherent instability of its genome This book presents important research in this exciting field

Genetic Polymorphism and cancer susceptibility Aga Syed Sameer, Mujeeb Zafar Banday, Saniya Nissar, 2021-04-22 This book discusses the role of genetic polymorphism in susceptibility to cancers The book explores the understanding of differences between the genetic polymorphisms and mutations It reviews the mechanisms underlying the effect of polymorphism in genes encoding proteins that play an essential role in metabolism signal transduction cell cycle and DNA repair mechanisms Further it investigates various techniques that are used for analyzing the genetic polymorphisms The book contains many chapters which summarize the importance of genetic information obtained from polymorphism based pharmaco genetic tests to predict better drug response and life threatening adverse reactions to chemotherapeutic agents help in understanding of the impact of SNPs on gene function and gives overview of the different SNP databases for examination This book therefore serves as an essential guidebook for independent researchers as well as institutions working in this specialised field

Principles of Cancer Genetics Fred Bunz, 2022-06-25 This popular textbook now in its third edition provides a theoretical framework for understanding why cancers arise how they develop and how they can be treated Particular attention is devoted to the origins of cancer and the application of evolutionary theory to explain how mutant cell populations tend to expand and spread Focused on the genes and signaling pathways involved in the most common tumors Principles of Cancer Genetics is a highly readable account that will be of interest to anyone who would like to attain a basic understanding of cancer biology Students who have completed introductory coursework in genetics biology and biochemistry medical students and medical house staff will find this book to be a useful starting point toward mastery of this complex but fascinating topic This updated edition delves into the critical interactions between growing tumors and the immune system and introduces the concepts of T cell activation immunoediting and immune evasion Novel strategies for cancer diagnosis and prognosis including new roles for next generation sequencing and liquid biopsies as well as established and emerging therapeutic modalities are now described in detail For laypersons students and researchers in other fields with a general interest in cancer this book provides an accessible overview enriched with many easy to understand illustrations For advanced students considering future study in the field of oncology and cancer research this concise book is a useful guide to the basic principles that underlie our understanding of cancer

Molecular Genetics of Cancer John K. Cowell, 2001 Since the first volume was published there has been significant success in isolating genes responsible for particular cancers as well as a major improvement in our understanding of the molecular events leading to tumors This book explores possible genetic

treatments that can suppress cancer cells that have formed tumors and it presents the details of the isolation and characterization of new human cancer genes that have recently been identified Molecular Genetics of Cancer 2E is an essential book for anyone involved in cancer research and the search for a cure

Cellular Respiration and Carcinogenesis Shireesh Apte,Rangaprasad Sarangarajan,2008-12-18 Cellular Respiration and Carcinogenesis presents leading experts in the field as it informs the reader about both basic and recent research in the field of cellular respiration and the effects of its dysfunction alteration or attenuation on the development of cancer This masterfully compiled text offers the reader a fundamental understanding about how oxygen sensing and or availability programmed cell death immune recognition and response and glucose metabolism are intimately linked with the two major mechanism or pathways of cellular respiration oxidative phosphorylation and glycolysis The editors and contributing authors proficiently and unequivocally address the effects of dysfunction of the mitochondrial oxidative phosphorylation glycolysis cellular respiration mechanisms and pathways on the development of cancer While it remains true that there are no universal truths in cancer Cellular Respiration and Carcinogenesis opens the dialogue that the etiology of cancer can usually be associated with and significantly attributed to the failure of one or multiple pathways of oxidative phosphorylation cellular respiration to normally burn fuel to generate energy vis vis the Warburg hypothesis Keeping with its cutting edge nature Cellular Respiration and Carcinogenesis provides the first glimpse to a cautionary evidence based counterbalance to the recent and rapidly proliferating notion that utilization of fuel primarily via glycolysis is a hallmark of cancer development

Molecular Aspects of Cancer and its Therapy A. Mackiewicz,P.B. Sehgal,2012-12-06 On the basis of the agreement signed between UNESCO and the Government of the Republic of Poland the International Institute for Cell and Molecular Biology of UNESCO was officially inaugurated in October 1995 in Warsaw Poland as part of the activity of the Global Network for Molecular and Cell Biology MCBN of UNESCO The occasion was marked by the bringing together in Warsaw of a broad spectrum of cell and molecular biologists from around the world under the auspices of the Global MCBN UNESCO At the conclusion of that week long celebration it became clear that Polish cell and molecular biology had come of age in terms of its depth vigor and impact on the global scene At the suggestion of Professor Angelo Azzi chairman of Global MCBN UNESCO we considered the challenge of compiling a volume in the Molecular and Cell Biology Updates tMCBU Series that would address the molecular basis of cancer and its therapy but one that would additionally serve to highlight Polish contributions to this field of research We accepted the challenge presented to us by Professor Azzi and are grateful to all contributors of the present volume for making this a pleasant and stimulating project We requested each contributor to present his personal perspective of respective topics As a consequence we hope that each contribution has a distinctive individual flavor which reflects the role played by individual research groups in advancing science

Hormonal Carcinogenesis III Jonathan J. Li,Sara A. Li,Janet R. Daling,2012-12-06 Since our previous symposium in 1995 the pace of research in hormones and cancer has accelerated

Progress in our understanding of hormonal carcinogenic processes has been a direct result of the advances made in cell biology endocrinology and carcinogenesis at the molecular level The newer fields of molecular genetics and cytogenetics already have and are expected to play a major role in furthering our understanding of the cellular and molecular events in hormonal carcinogenesis It has become increasingly clear that the risk of naturally occurring sex hormones in carcinogenic processes both in human and in animal models requires only minute quantities of hormones at both the serum and tissue levels Moreover hormone target tissues for neoplastic transformation perhaps with the exception of the liver generally have relatively modest ability to metabolize sex hormones such as the breast and prostate Table 1 summarizes the serum and in most cases the tissue levels of sex hormones both endogenously and exogenously ingested which are associated with increased risk for endocrine associated cancers such as breast endometrium and prostate as well as the hormone levels of four experimental models that have been shown to elicit high tumor incidences In contrast to the human in which the hormone levels are cyclic however the latter require continuous hormone exposure at these relatively low levels

Vogel and Motulsky's Human Genetics Michael Speicher, Stylianos E. Antonarakis, Arno G. Motulsky, 2009-11-26 The fourth edition of this classical reference book can once again be relied upon to present a cohesive and up to date exposition of all aspects of human and medical genetics Human genetics has become one of the main basic sciences in medicine and molecular genetics is increasingly becoming a major part of this field This new edition integrates a wealth of new information mainly describing the influence of the molecular revolution including the principles of epigenetic processes which together create the phenotype of a human being Other revisions are an improved layout sub division into a larger number of chapters as well as two colour print throughout for ease of reference and many of the figures are now in full colour For graduates and those already working in medical genetics

Physiology of the Gastrointestinal Tract, Two Volume Set Hamid M. Said, 2012-07-04 Physiology of the Gastrointestinal Tract Fifth Edition winner of a 2013 Highly Commended BMA Medical Book Award for Internal Medicine covers the study of the mechanical physical and biochemical functions of the GI Tract while linking the clinical disease or disorder bridging the gap between clinical and laboratory medicine The gastrointestinal system is responsible for the breakdown and absorption of various foods and liquids needed to sustain life Other diseases and disorders treated by clinicians in this area include food allergies constipation chronic liver disease and cirrhosis gallstones gastritis GERD hemorrhoids IBS lactose intolerance pancreatic appendicitis celiac disease Crohn's disease peptic ulcer stomach ulcer viral hepatitis colorectal cancer and liver transplants The new edition is a highly referenced and useful resource for gastroenterologists physiologists internists professional researchers and instructors teaching courses for clinical and research students 2013 Highly Commended BMA Medical Book Award for Internal Medicine Discusses the multiple processes governing gastrointestinal function Each section edited by preeminent scientist in the field Updated four color illustrations

Yamada's Textbook of Gastroenterology Daniel K. Podolsky, Michael Camilleri, J. Gregory Fitz, Anthony N.

Kalloor,Fergus Shanahan,Timothy C. Wang,2015-10-13 Yamada's Textbook of Gastroenterology has for 20 years been the most comprehensive gastroenterology reference book combining an encyclopaedic basic science approach to GI and liver disease with the latest clinical thinking especially in diagnostic and therapeutic developments It is universally respected across the globe The original outstanding editorial team was led by Tadataka Yamada MD one of the world's leading figures in GI research As in previous editions the new textbook reflects the collective efforts of the editors and a hugely impressive team of contributors who are each experts in their specific areas Now with another world leader in gastroenterology as Editor in Chief Daniel K Podolsky MD President and Professor of Internal Medicine at the University of Texas Southwestern Medical Center together with a stellar group of associate editors the 6th edition of this iconic textbook has been expanded and enhanced in many ways with new content and technology

Systems Biology of Cancer Sam Thiagalingam,2015-04-09 With over two hundred types of cancer diagnosed to date researchers the world over have been forced to rapidly update their understanding of the biology of cancer In fact only the study of the basic cellular processes and how these are altered in cancer cells can ultimately provide a background for rational therapies Bringing together the state of the art contributions of international experts *Systems Biology of Cancer* proposes an ultimate research goal for the whole scientific community exploiting systems biology to generate in depth knowledge based on blueprints that are unique to each type of cancer Readers are provided with a realistic view of what is known and what is yet to be uncovered on the aberrations in the fundamental biological processes deregulation of major signaling networks alterations in major cancers and the strategies for using the scientific knowledge for effective diagnosis prognosis and drug discovery to improve public health

Perspectives in Mammary Gland Development and Breast Cancer Research Zuzana Koledova,Alexandra Van Keymeulen,Vida Vafaizadeh,Emilia Peuhu,2020-10-27 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

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