

Recent Results in Cancer Research

H. K. Müller-Hermelink H. G. Neumann
W. Dekant (Eds.)

Risk and Progression Factors in Carcinogenesis



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Risk And Progrebion Factors In Carcinogenesis

Kathryn Tonissen



Risk And Progrebion Factors In Carcinogenesis:

Risk and Progression Factors in Carcinogenesis H.K. Müller-Hermelink, H.G. Neumann, W. Dekant, 2012-01-30 Cellular transformation and carcinogenesis are considered a multistep process starting with DNA lesions and progressing through loss of cellular growth control and increase invasive and metastatic properties This book focuses on the demonstration of important steps in carcinogenesis ranging from chemical interaction of carcinogens with cellular DNA in experimental tumors and cell lines to the analysis of selected human tumors Special importance is given to the clarification of mechanisms of DNA lesions caused by chemical carcinogens and UV irradiation Leading scientists describe in review articles the actual state of the art in their specific fields The reader is informed of trends and scientific approaches to the recognition of pathogenetic mechanisms and factors in malignant tumors

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Risk Factors and Multiple Cancer Basil Arnold Stoll, 1984

Environmental Factors in Carcinogenesis:

Exposome-Driven Insights Into Cancer Risk and Prevention Raghavan, Ramya, 2025-07-09 The development of cancer is influenced by genetic predispositions and environmental exposures over a lifetime This framework encompasses all non genetic factors including chemical pollutants dietary habits radiation and lifestyle behaviors that may contribute to carcinogenesis Recent advances in exposome research have shed light on how these environmental influences interact with biological systems to initiate and promote cancer Understanding the exposome s role in cancer enhances knowledge of environmental carcinogenesis while paving the way for targeted public health interventions and personalized prevention efforts tailored to individual profiles Environmental Factors in Carcinogenesis Exposome Driven Insights Into Cancer Risk and Prevention explores how environmental exposures contribute to cancer development by interacting with biological processes over time It explains emerging research tools and data that help identify environmental risk factors enabling more precise cancer prevention and public health strategies This book covers topics such as oncology risk factors and precision medicine and is a useful resource for medical professionals oncologists academicians researchers and scientists

Growth Factors and Tumor Promotion R. Michael McClain, 1995-08-11 Progress in Clinical and Biological Research Volume 391 Growth Factors and Tumor Promotion Implications for Risk Assessment R Michael McClain Thomas J Slaga Robert LeBoeuf

and Henry Pitot Editors Understanding the biological cellular and molecular mechanisms of growth factors in carcinogenesis is essential to predicting tumor development both in research and clinical settings An up to date and much needed overview of this field Growth Factors and Tumor Promotion Implications for Risk Assessment presents cutting edge work from scientists involved in all areas of oncology and cancer biology The book presents 32 chapters exploring a wide range of specialized topics in this field Material in the text ranges from the biological changes caused by growth factors to quantifying cancer risk based on the biological data and the carcinogen bioassay Extensive coverage is given to the complex mechanisms of growth factors in the process of tumor progression in addition to numerous studies involving both animal models and analogous clinical cases Growth Factors and Tumor Promotion addresses such specific topics as a decision tree approach for carcinogenesis risk assessment hypomethylation of DNA a possible epigenetic mechanism involved in tumor promotion transforming growth factor s in mammary tumorigenesis genetic factors controlling skin tumor promotion in mice benzoyl peroxide review of experimental carcinogenesis and human safety data mechanistic considerations in risk assessment for epigenetic tumor promoting carcinogens Growth Factors and Tumor Promotion Implications for Risk Assessment features the contributions of laboratory investigators and clinical practitioners from leading medical and research institutions around the world It is a current authoritative work that will be of interest to cancer researchers pathologists toxicologists pharmacologists and molecular and cellular biologists as well as scientists working with regulatory agencies that target environmental health hazards

Environmental Factors, Genes, and the Development of Human Cancers Deodutta Roy, M. Tevfik Dorak, 2010-09-11 Cancer is a complex disease Only 5 10% of human cancers are hereditary in nature Many of us think of environmental agents when we think of carcinogens The environment includes all that surrounds us and environmental influences include not only chemical physical and biological toxicants but also diet and lifestyle In this broadest sense the environment contributes substantially in the development of human cancer This book will describe how environment contributes to malignant transformation leading to profound changes in the genetic and signaling networks that control the functioning of the cell It will critically discuss the understanding of the effects of environment on the development progression and metastasis of cancer with current knowledge of the signaling networks that support functioning of transformed human cells Genes and environmental factors that influence the origins of cancer are not necessarily the same as those that contribute to its progression and metastasis Susceptibility gene variants for each specific cancer are being identified with emerging evidence of gene environment interaction Gene environment interactions will be discussed through each specific cancer based approach to address the question of how genetic variations can influence susceptibility to the individual type of cancer It will also highlight and summarize epigenetic changes that increase the risk for susceptibility to a particular type of cancer particularly in the presence of specific environmental factors Thus this book will contain chapters from the world s experts focused on the current evidences that support the role of environment in the cancer etiology and in

the growth of malignant lesions and discuss who may be susceptible to environmental influences

Cancer Causing Substances Faik Atroshi, 2018-05-16 Cancer risk factors include exposure to certain substances which may contribute to the development of cancer. However, substances can have different levels of cancer-causing potential, and the risk of developing cancer is dependent on several factors, including individual genetic background and the amount and duration of the exposure. This book focuses on various cancer risk factors, covering numerous known, probable, and possible carcinogens, their role in carcinogenesis, mechanisms of carcinogenicity, and methods for detecting carcinogens. And due to the growing concerns over the effects that substances and environmental exposures can have on human health, the chapters also emphasize on the vital need for further topic-related research as well as development and implementation of beneficial approaches.

Risk Factors and Mechanisms in Carcinogenesis, 1990 **Mechanisms in Carcinogenesis and Cancer Prevention** Harri U. Vainio, Eino K. Hietanen, 2013-04-17 A large proportion of cancers is preventable. External factors discovered by epidemiological studies during the last 50 years account for a majority of all cancer deaths. However, still rather little is known about how environmental and genetic factors interact, how they may regulate gene activation, etc. And it is a long way from the discovery of a basic regulatory mechanism to practical patient treatment. This volume describes the present state of the art in carcinogenesis, possibilities for cancer prevention, and gives genetic background in cancer development. Attention is given to the host-environment interaction, considering how this interaction may lead to cancer formation and how it can be utilised in cancer prevention. The molecular basis for cancer development and the molecular basis for prevention are described.

Carcinogenesis Kathryn Tonissen, 2013-01-23 Carcinogenesis covers molecular, biochemical, and cellular processes that underpin this field. The complex nature of cancer means that a broad understanding of these processes is advantageous when designing novel preventative, therapeutic, or diagnostic strategies. This book commences with chapters discussing cancer predisposition and pre-cancerous lesions. Factors that initiate or progress cancer development, including viral, hormonal, oncogenic, and biochemical stimuli, are then described, as are interactions with the cancer extracellular environment. Animal models are particularly useful for evaluating therapeutic or chemopreventive agents, and examples are presented. Finally, natural products that either prevent or treat cancer are described. Together, these topics will provide the reader with examples of the latest cutting-edge research and discoveries with the goal of stimulating further advances.

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