

Recent Results in Cancer Research

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Skin Carcinogenesis in Man and in Experimental Models



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Skin Carcinogenesis In Man And In Experimental Models

**IARC Working Group on the Evaluation
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Skin Carcinogenesis In Man And In Experimental Models:

Skin Carcinogenesis in Man and in Experimental Models Erich Hecker, E.G. Jung, F. Marks, W. Tilgen, 2012-12-06 The detection of cancer risk factors and their possible avoidance would most effectively contribute to the fight against cancer. Research in these areas depends to a substantial degree on in vivo experimental animal models and on epidemiologic studies including data from cancer registries. When the Deutsches Krebsforschungszentrum was founded in 1964 its division Mechanisms of Tumorigenesis and a number of other divisions became engaged in research on chemical carcinogenesis of the skin mainly using the mouse skin as an experimental model. Their interest originated in part from investigations of the new and at that time controversial pathogenic principle of conditional carcinogens as represented by certain tumor promoters which are per se noncarcinogenic. During the past 25 years conditional carcinogens in terms of tumor promoters were established as a new nonclassical category of cancer risk factors besides the classical solitary carcinogens. In the course of this exciting period scientists of our center started cooperative programs with clinical dermatologists of the University of Heidelberg at the Clinics of Dermatology in Heidelberg and Mannheim to extend the scope of their investigations into clinical oncology and to contribute by experimental approaches to solving problems in clinical oncology. This led to a gradual shift from mere animal studies to the more direct analyses of human tumors and opened up for us a new phase of research.

International Symposium Skin Carcinogenesis in Man and in Experimental Models International Symposium Skin Carcinogenesis in Man and in Experimental Models (1991, Heidelberg), 1991 *Biological Models in Radiopharmaceutical Development* R.M. Lambrecht, 2012-12-06 Radiopharmaceuticals labeled with short lived radionuclides are utilized to unravel biochemical processes and to diagnosis and treat diseases of the living body. They are developed through extensive evaluation in biological models. The first attempt to compile information was a volume entitled ANIMAL MODELS IN RADIOTRACER DESIGN that was edited by William C Eckelman and myself in 1983. The volume had a focus on the animal models that investigators were using in order to design radiotracers that displayed in vivo selectivity as measured by biodistribution and pharmacokinetic studies. A concern in the early days of nuclear medicine was species differences. Often a series of labeled compounds were evaluated in several different animal models in order to gain confidence that the selected radiotracer would behave appropriately in humans. During the past 12 years there have been remarkable advances in molecular genetics, molecular biology, synthetic radiopharmaceutical chemistry, molecular modeling and visualization and emission tomography. Biological models can now be selected that are better defined in terms of molecular aspects of the disease process. The development of high resolution PET and SPET for clinical applications facilitates the development of new radiopharmaceuticals by the use of models to quantitatively evaluate drug effects and progression of disease and hence to arrive at better diagnosis and treatments for animals and humans. With these advances there is an effective use of biological models and the refinement of alternatives for the development of new radiopharmaceuticals. Cumulated Index Medicus

,1993 **Skin Carcinogenesis in Man and in Experimental Models** ,1991 **Transforming Growth Factor-Beta in Cancer Therapy, Volume II** Sonia B. Jakowlew,2010-01-01 Transforming Growth Factor B in Cancer Therapy Volume II Cancer Treatment and Therapy The chapters in this volume confer an abundance of knowledge about the current state of our understanding of transforming growth factor B TGF B in cancer treatment and therapy Unlike several more traditional positive polypeptide growth factors that stimulate cellular proliferation the prototypical TGF B is now known to inhibit the growth of most normal cell types including those of epithelial and mesenchymal origin However there are examples of cell types that can be stimulated by TGF B under certain conditions TGF B also induces the accumulation of matrix molecules by stimulating their synthesis as well as inhibiting their degradation Moreover TGF B induces apoptosis of certain cell types thereby restricting their proliferation Overactivity of TGF has been linked to several diseases For instance the effect of TGF on matrix accumulation contributes to fibrotic conditions like glomerulonephritis lung fibrosis and liver cirrhosis 1 TGF has a very complicated role in cancer that is only beginning to be understood Current Catalog National Library of Medicine (U.S.),1993 First multi year cumulation covers six years 1965 70 *Journal of the National Cancer Institute* ,1994 **The Molecular Basis of Human Cancer** William B. Coleman, Gregory J. Tsongalis,2001-08-10 Internationally renowned basic and clinical scientists provide an account of our best current understanding of the genetics of cancer These authoritative contributors describe in detail each of the known molecular mechanisms governing neoplastic transformation in the breast prostate lung liver colon and skin and in the leukemias and lymphomas Their discussion illuminates both recent developments and established concepts in epidemiology molecular techniques oncogenesis and mutation mechanisms as well as the chemical viral and physical mechanisms in cancer induction *Stratospheric Ozone Research and Effects* United States. Congress. Senate. Committee on Aeronautical and Space Sciences. Subcommittee on the Upper Atmosphere,1976 Biomedical Index to PHS-supported Research ,1987 **Research Awards Index** ,1986 **Clinical Bioenergetics** Sergej M. Ostojic,2020-11-12 Clinical Bioenergetics From Pathophysiology to Clinical Translation provides recent developments surrounding the etiology and pathophysiology of inherited and acquired energy related disorders Across 40 chapters world leaders in bioenergetics and mitochondrial medicine discuss novel methodologies designed to identify deficiencies in cellular bioenergetics as well as the safety and efficacy of emerging management strategies to address poor cellular bioenergetics Topics discussed include the omics landscape of impaired mitochondrial bioenergetics hormones tissue bioenergetics and metabolism in humans Disease specific case studies modes of analysis in clinical bioenergetics and therapeutic opportunities for impaired bioenergetics addressing both known treatment pathways and future directions for research are discussed in depth Diseases and Disorders examined include brain injury chronic fatigue syndrome psychiatric disorders pulmonary fibrosis neurodegenerative disorders heart failure chronic kidney disease obesity and insulin resistance among others Provides a thorough discussion of foundational aspects of bioenergetics and disease modes of analysis and

treatments for impaired bioenergetics Discusses the role of bioenergetics and treatment pathways in brain injury chronic fatigue syndrome psychiatric disorders pulmonary fibrosis neurodegenerative disorders heart failure chronic kidney disease obesity and insulin resistance among other diseases and disorders Features chapter contributions from international leaders in translational bioenergetics research and clinical practice **Handbook of Laboratory Animal Science, Volume III**

Jann Hau, Steven J. Schapiro, 2013-12-26 While replacing and reducing the use of laboratory animals are integral parts of the 3Rs replace reduce refine which form the cornerstones of laboratory animal science biomedical research involving animals remains absolutely essential for the advancement of the medical veterinary agricultural and biological sciences Building upon the bestsel **Handbook of Laboratory Animal Science, Volume III, Third Edition** Jann Hau, Steven J.

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Biomedical Index to PHS-supported Research: pt. A. Subject access A-H, 1994 **Retinoids** IARC Working Group on the Evaluation of Cancer-preventive Agents, World Health Organization, International Agency for Research on Cancer, 1999 The retinoids are a class of compounds structurally related to Vitamin A In the last 30 years more than 2 500 retinoids have been synthesized and biologically tested with the objective of identifying those with an enhanced therapeutic ratio The majority have been studied for their cancer preventive activity in experimental models and some in clinical trials in humans On 24 30 March 1999 a working group of international experts met in Lyon to consider the existing evidence on the cancer preventive activity of nine retinoids judged to have sufficient human and or animal data to permit evaluation This handbook details the evidence considered and summarizes the evaluation made by the working group **Toxicology Research Projects Directory**, 1976-02 An indexed directory of current research project abstracts in toxicology and related fields **Molecular Biochemistry of Human Diseases** George Feuer, F. A. de la Iglesia, 2020-04-22 First published in

1986 This book is to help medical pharmacy and advanced students in science to understand the growing importance of continuously advancing biochemical concepts in human disease *Biochemical and Molecular Aspects of Selected Cancers*
Thomas G. Pretlow II, 2013-10-22 This two volume work not only includes much of the newer molecular biology research but also important earlier research in this area essential for the comprehensive understanding of the biochemistry of neoplastic diseases As such it will provide an invaluable source of information for the young investigator Human cancers not experimental models of cancer are emphasized

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