

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:

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. 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 Skin Carcinogenesis in Man and in Experimental Models, 1991 *Cumulated Index Medicus*, 1977 **Current Catalog** National Library of Medicine (U.S.), 1993 First multi year cumulation covers six years 1965 70 **Stratospheric Ozone Research and Effects** United States. Congress. Senate. Committee on Aeronautical and Space Sciences. Subcommittee on the Upper Atmosphere, 1976 Stratospheric Ozone Depletion United States. Congress. Senate. Committee on Aeronautical and Space Sciences. Subcommittee on the Upper Atmosphere, 1975 *National Library of Medicine Current Catalog* National Library of Medicine (U.S.), 1993 *Toxicity Bibliography*, 1974 **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 **Chemicals and the Future of Man** United States. Congress. Senate. Committee on Government Operations. Subcommittee on Executive Reorganization and Government Research, 1971 Chemicals and the Future of Man United States. Congress. Senate. Government Operations, 1971 **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 The Cumulative Book Index ,1995 A world list of books in the English language Journal of the National Cancer Institute ,1990 Biomedical Index to PHS-supported Research: pt. A. Subject access A-H ,1994

Prostaglandins, Leukotrienes and Other Eicosanoids Friedrich Marks, Gerhard Fürstenberger, 2008-11-21

Polyunsaturated fatty acids are essential for human cell metabolism As precursors of a very large and extremely versatile family of signaling compounds they play a key role in intracellular communication Eicosanoids constitute one of the most abundant and prominent subfamilies of these fatty acid derivatives which are formed primarily along oxidative pathways Prostaglandins leukotrienes and related eicosanoids have a modulatory function in mammalian cells and are responsible for tissue responses such as inflammation or wound repair Increasing activity in eicosanoid research sheds new light on today's most common diseases including atherosclerosis cancer Alzheimer's allergies and rheumatic diseases The recent advances already have far reaching implications in medicine This detailed account written by leading experts covers the ground breaking developments in recent eicosanoid research The topics span eicosanoid biogenesis new aspects of their pathophysiology for example their influence on the cardiovascular system as well as the clinical application of synthetic eicosanoids and their antagonists Researchers and students working in biochemistry or in pharmaceutical physiological medicinal and neurochemistry will value this informative introduction to one of the most rapidly developing fields in cell biology **Recent Advances in Brain Tumor Research** W. G. Bingham Jr., 1972

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