

Biologic Effects of Light 2001

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Michael F. Holick

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Biologic Effects Of Light 2001

Jörg Reichrath



Biologic Effects Of Light 2001:

Biologic Effects of Light 2001 Michael F. Holick, 2002-03-31 As humans ventured into the twentieth century the industrialized countries were confronted with the scourge of rickets Although solariums were becoming common in the early 1900s and phototherapy was gaining popularity as a result of the awarding of a Nobel Prize to Finsen in 1903 it wasn't until 1921 when Hess and Unger demonstrated that rickets could be cured by exposure to sunlight that the healthful benefit of sun exposure appreciated In 1941 Apperly Cancer Research 1 191 195 1941 noted that the occasional increased risk of skin cancer was associated with a decreased risk of many other more common and serious cancers The alarming increase in the number of cases of skin cancer especially melanoma has caused great concern about the negative role of sunlight in health The Sixth International Arnold Rikli Symposium on the Biologic Effects of Light was held in Boston Massachusetts from June 16th 18th 2001 The goal of this Symposium was to focus on the very popular practice of tanning either by sunlight or by artificial light sources and the overall impact this practice has on health and disease The program was organized by members of the Scientific Advisory Committee and my co chair emeritus Professor Ernst G Jung The Program Committee organized an outstanding state of the art program that was enthusiastically received by the participants *Biological Effects of Electromagnetic Fields* Peter Stavroulakis, 2013-03-09 Any book under this title which creates both anticipation and anxiety must be the work of a lot of people present any new findings with objectivity and cover the subject as exhaustively as possible As such it must cover the possible reproducible mechanisms of action reaction EMF Biological Organism the appropriate models that allow quantitative measurements the basic biological reproducible effects and possible therapeutic effects along with their prevalent metrics and international exposure criteria This is exactly the main objective of this book It is also believed that it provides some new results and conclusions which complement clarify and verify the existing results in the literature included in the references 1 and 2 Electromagnetic Radiation is a form of energy which is transmitted in the form of waves which correspond to spatial and time variations of the electric and magnetic field Electromagnetic fields appear in a vast set of frequencies spectra that are divided in frequency zones according to the manner they are produced or used Areas greater than 300 gigacycles GHz which include the solar spectrum as well as x and gamma rays have been studied sufficiently under a different angle in relation to possible biological effects People are well aware of the harmful effects of sun radiation when they are exposed to the sunlight for extended periods of time and of the catastrophic effects of nuclear bombs and nuclear reactor leaks **Biological Effects of Static Magnetic Fields** Xin Zhang, 2023-02-21 The book summarizes the emerging topic about the effects of SMF on biological samples ranging from single molecules subcellular compartments and cells to whole organisms It also discusses the potential application of SMF in clinical treatment of cancer pain diabetes and other diseases With the development and growing popularity of modern appliances like MRI in hospitals the potential impact of magnetic fields on human health is invoking increasing concerns At the same time SMF has been

explored in the treatment of tumor and other diseases for decades Nevertheless there are still some reservations and uncertainties about these treatments which are largely due to the differential biological effects reported in the literature These experimental inconsistencies are mainly caused by variations such as different magnetic field types intensities treatment time as well as biological samples examined The second edition added eight new chapters about new progress in this field including impacts of SMFs magnetism of biomolecules and potential of SMFs in the management of bone pain diabetes and immune systems This volume will help clarify some dilemmas in this field and encourage further investigations in order to achieve a better understanding of the biological effects of SMF aiming for a rational application of SMF in clinical therapy in the near future The book is useful for scientists doctors and students who are interested in magnetic fields and life sciences

The Effects of 1,25-Dihydroxyvitamin D3 and Analogues on UVB-irradiated Human Keratinocytes Petra De Haes,2004 This is a Ph D dissertation The skin serves as a protective interface between the body and the noxious environment Ultraviolet UV radiation is one of the most important sources of environmental stress inducing photochemical changes in the skin that may lead to sunburn premature skin aging and skin cancer The skin and UV also play a leading part in the vitamin D endocrine system When UVB photons strike the epidermis their energy can be used for the synthesis of vitamin D3 Furthermore the skin is one of the direct target issues for vitamin D3 action The close interplay between UV and vitamin D3 production in the skin evokes the possibility of mutual interactions Contents Introduction Aims and Scopes of the Study Materials and Methods 1 25D3 Inhibits UVB Induced Apoptosis and IL 6 Production in Human Keratinocytes 1 25D3 Protects Human Keratinocytes Against UVB Induced Damage Two 14 EPI Analogues of 1 25D3 Protect Human Keratinocytes Against Different UVB Effects Molecular Pathways Involved in the Anti Apoptotic Effect of 1 25D3 in Human Keratinocytes General Discussion and Perspectives

On the interacting visual and non-visual effects Lucia R. Ronchi,2012

Design and Emotion Deana McDonagh,Paul Hekkert,Jeroen van Erp,Diane Gyi,2003-10-24 There is considerable interest in and growing recognition of the emotional domain in product development The relationship between the user and the product is paramount in industry which has led to major research investments in this area Traditional ergonomic approaches to design have concentrated on the user s physical and cognitive abil

The Green Braid Kim Tanzer,Rafael Longoria,2007-04-11 This volume presents the discipline s best thinking on sustainability in written drawn and built form drawing on over fifteen years of peer reviewed essays and national design awards published by the Association of Collegiate Schools of Architecture ACSA Providing a primer on sustainability useful to teachers and students alike the selected essays address a broad range of issues Combined with design projects that highlight issues holistically they promote an understanding of the principles of sustainability and further the integration of sustainable methods into architectural projects Using essays that alternately revise and clarify twentieth century architectural thinking The Green Braid places sustainability at the centre of excellent architectural design No other volume addresses sustainability within the context of architectural

history theory pedagogy and design making this book an ideal source for architects in framing their practices and therefore their architectural production in a sustainable manner *Vitamin D Analogs in Cancer Prevention and Therapy* J.

Reichrath,M. Friedrich,W. Tilgen,2013-03-14 This volume provides a comprehensive highly readable overview of the topics discussed at the First International Symposium on Vitamin D Analogs in Cancer Prevention and Therapy held in Homburg Saar Germany in May 2002 Leading researchers discuss our present knowledge of the vitamin D system in cancer Topics range from the newest findings in molecular biology epidemiology synthesis and metabolism of vitamin D to new concepts for the use of vitamin D analogs in cancer prophylaxis and treatment The book provides essential up to date information for every researcher or clinician interested in the biology of vitamin D or cancer *Biological Effects of Metal Nanoparticles*

Elena Mikhailovna Egorova,Aslan Amirkhanovich Kubatiev,Vitaly Ivanovich Schvets,2016-04-26 This book offers a comprehensive overview of recent studies conducted on the biological effects of metal nanoparticles It also provides a solid theoretical foundation and various metal nanoparticle synthesis methods Part I reviews the main chemical methods used for synthesizing metal nanoparticles in a solution and describes original method of biochemical synthesis as well as some special procedures developed specifically for studying the biological activity of nanoparticles Part II analyzes current literature on the effects of metal nanoparticles observed in microorganisms and addresses the influence of silver nanoparticles obtained by biochemical synthesis on biological objects on various organization levels namely on microorganisms acellular slim mold unicellular alga plant seeds and mammalian cells The last section explains the central problems common in studies on the biological effects of metal nanoparticles and outlines potential uses of this trend in bio nanotechnologies This book is aimed at specialists professors and students aspiring to expand their knowledge about the biological activities of metal nanoparticles and nanoparticle containing materials The UV Advantage Michael Hollick, M.D. and Mark

Jenkins,2013-07-11 Dr Holick says sunshine is good medicine Jane E Brody The New York Times Sunshine is good for you While too much sun causes wrinkles and raises other health concerns a lack of sun exposure our primary source of vitamin D can cause serious health problems such as osteoporosis certain cancers and diabetes Dr Holick the discoverer of the active form of vitamin D has pulled together an impressive body of evidence in support that no one should be as he puts it a sunphobe or for that matter a sun worshipper His conclusion relatively brief but unfettered exposure to sunshine and its equivalent can help to ward off a host of debilitating and sometimes deadly diseases including osteoporosis cancers of the colon prostate and breast hypertension diabetes multiple sclerosis rheumatoid arthritis and depression Eros and Illness David B. Morris,2017-02-27 When we or our loved ones fall ill our world is thrown into disarray our routines are interrupted our beliefs shaken David Morris offers an unconventional deeply human exploration of what it means to live with and live through disease He shows how desire emotions dreams stories romance even eroticism plays a crucial part in illness

Sunlight, Vitamin D and Skin Cancer Jörg Reichrath,2015-11-27 The goal of this volume is to comprehensively cover a

highly readable updated and extended overview on our present knowledge of positive and negative effects of UV exposure with a focus on vitamin D and skin cancer Topics that are discussed in depth by leading researchers and clinicians range from the newest findings in endocrinology epidemiology histology photobiology immunology cytogenetics and molecular pathology to new concepts for prophylaxis and treatment Experts in the field as well as health care professionals not intimately involved in these specialized areas are provided with the most significant and timely information related to these topics It is the aim of the second edition of this book to summarize essential up to date information for every clinician or scientist interested in how to balance between positive and negative effects of UV exposure to minimize the risks of developing vitamin D deficiency and skin cancer **Journal of the National Cancer Institute**, 2002 Each issue is packed with extensive news about important cancer related science policy politics and people Plus there are editorials and reviews by experts in the field book reviews and commentary on timely topics **Multiple Myeloma - A New Era of Treatment Strategies** Klaus Podar, Kenneth C. Anderson, 2012-01-17 Multiple Myeloma MM the second most common blood cancer in adults is a clonal plasma cell malignancy within the bone marrow characterized by osteolytic bone lesions renal disease and immunodeficiency It is now well established that MM cell induced Applied Biophysics Of Activated Water: The Physical Properties, Biological Effects And Medical Applications Of Mret Activated Water Vladimir I Vysotskii, Alla A Kornilova, Igor V Smirnov, 2009-07-06 This book provides a detailed review of the modern theories dealing with the structure and properties of water It also presents an analysis of the research on the effect of activated water on biological systems such as animals microorganisms and plants The results of experiments on the influence of activated water on pure microbiological cultures and their natural associations are described the studies being carried out under both aerobic and anaerobic conditions The results demonstrate a significant influence of activated water on higher plants vegetable crops sterile plants and callus tissues It is shown that the activation of water under definite conditions gives rise to the appearance of very strong bactericidal properties activated water inhibits the development of pathogenic microbiological cultures by tens and hundreds of times more strongly and can be used for sterilization In addition a potent positive effect of activated water on the prevention and treatment of cancer in mice has been observed and its efficacy compared to that of chemotherapy is discussed in the book The information provided in this book is supported by intensive experimental data and developed theories The research programs were conducted at the authors laboratories in Ukraine and Russia as well as at research facilities located in the USA **Proceedings of the ACSA Annual Meeting** Association of Collegiate Schools of Architecture, 2002 *Clinical Guide to Sunscreens and Photoprotection* Henry W. Lim, Zoe Diana Draelos, 2008-12-22 Designed with practicing dermatologists dermatology trainees physicians and scientists interested in photoprotection in mind this concise and highly illustrated guide provides the latest knowledge of photoprotection in dermatology and cosmetic science *Clinical Guide to Sunscreens and Photoprotection* also addresses recent importan **Encyclopedia of**

Astrobiology Muriel Gargaud, Ricardo Amils, 2011-05-26 Astrobiology is a remarkably interdisciplinary field This reference serves as a key to understanding technical terms from the different subfields of astrobiology including astronomy biology chemistry the geosciences and the space sciences **Biological Effects of Ionizing Radiation** Marylou Ingram, 1966

Electromagnetic Fields of Wireless Communications: Biological and Health Effects Dimitris J. Panagopoulos, 2022-12-30 This book reflects contributions from experts in biological and health effects of Radio Frequency RF Microwave and Extremely Low Frequency ELF Electromagnetic Fields EMFs used in wireless communications WC and other technological applications Diverse topics related to physics biology pathology epidemiology and plausible biophysical and biochemical mechanisms of WC EMFs emitted by antennas and devices are included Discussions on the possible consequences of fifth generation 5G mobile telephony MT EMFs based on available data and correlation between anthropogenic EMF exposures and various pathological conditions such as infertility cancer electro hypersensitivity organic and viral diseases and effects on animals plants trees and environment are included It further illustrates individual and public health protection and the setting of biologically and epidemiologically based exposure limits Features Covers biological and health effects including oxidative stress DNA damage reproductive effects of mobile phones antennas 2G 3G 4G cordless phones Wi Fi etc Describes effects induced by real life exposures by commercially available devices antennas Illustrates biophysical and biochemical mechanisms that fill the gap between recorded experimental and epidemiological findings and their explanations Explores experimental and epidemiological facts and mechanisms of action Provides explanations and protection tips Transcends across physical biological chemical health epidemiological and environmental aspects of the topic This book is aimed at senior undergraduate graduate students in physics biology medicine bioelectromagnetics electromagnetic biology non ionizing radiation biophysics telecommunications electromagnetism bioengineering and dosimetry

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