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Modern Approaches to Clinical Trials Using SAS - Sandeep Menon 2015-12-09

Get the tools you need to use SAS® in clinical trial design! Unique and multifaceted, *Modern Approaches to Clinical Trials Using SAS: Classical, Adaptive, and Bayesian Methods*, edited by Sandeep M. Menon and Richard C. Zink, thoroughly covers several domains of modern clinical trial design: classical, group sequential, adaptive, and Bayesian methods that are applicable to and widely used in various phases of pharmaceutical development. Written for biostatisticians, pharmacometricians, clinical developers, and statistical programmers involved in the design, analysis, and interpretation of clinical trials, as well as students in graduate and postgraduate programs in statistics or biostatistics, the book touches on a wide variety of topics, including dose-response and dose-escalation designs; sequential methods to stop trials early for overwhelming efficacy, safety, or futility; Bayesian designs that incorporate historical data; adaptive sample size re-estimation; adaptive randomization to allocate subjects to more effective treatments; and population enrichment designs. Methods are illustrated using clinical trials from diverse therapeutic areas, including dermatology, endocrinology, infectious disease, neurology,

oncology, and rheumatology. Individual chapters are authored by renowned contributors, experts, and key opinion leaders from the pharmaceutical/medical device industry or academia. Numerous real-world examples and sample SAS code enable users to readily apply novel clinical trial design and analysis methodologies in practice.

Comprehensive Dermatologic Drug Therapy E-Book - Jashin J. Wu

2012-10-18

Safely and effectively treat a full range of skin disorders with *Comprehensive Dermatologic Drug Therapy*, 3rd Edition! This trusted dermatology reference provides concise, complete, up-to-date guidance on today's full spectrum of topical, intralesional, and systemic drugs. Dr. Steven E. Wolverton and a team of leading international experts clearly explain what drugs to use, when to use them, and what to watch out for. Consult this title on your favorite e-reader with intuitive search tools and adjustable font sizes. Elsevier eBooks provide instant portable access to your entire library, no matter what device you're using or where you're located. Prescribe with confidence thanks to quick-access summaries of indications/contraindications, dosage guidelines,

drug interactions, drug monitoring guidelines, adverse effects, and treatment protocols. Assess your knowledge and prepare for certification or recertification with more than 800 review questions and answers throughout. Contain costs and meet patient expectations with purchase information provided for major drugs. Quickly evaluate drug options for each disease discussed using a highly detailed, disease-specific index. Discover the best uses for new biologic therapeutics such as ustekinumab and rituximab, as well as newly improved TNF inhibitors. Offer your patients the very latest in cosmetic procedures, including chemical peels, intradermal fillers, and botulinum toxin. Use the safest and most effective drugs possible with new chapters on irritants and allergens in topical therapeutic agents, plus a new, separate chapter on mycophenolate mofetil. Review drugs recently taken off the market by the FDA, and use that knowledge to improve your current dermatologic drug therapy.

Carotenoids: Biosynthetic and Biofunctional Approaches - Norihiko Misawa
2021-03-30

This book provides a comprehensive overview of carotenoid biosynthesis by different organisms, including bacteria, archaea, fungi, arthropods, and plants. Carotenoids are thought to provide health benefits in areas such as cancer, diabetes, osteoporosis, NAFLD, NASH, obesity, age-related functional decline, and as a result, they have received an increasing amount of attention. With contributions from leading experts in biology, biotechnology, and chemistry of carotenoid research, this volume discusses the biological functions of carotenoids such as astaxanthin, β -cryptoxanthin, and fucoxanthin, in addition to paprika carotenoids, capsanthin, and capsorubin. It also reveals the technologies behind the commercial production of some functional carotenoids. The book is targeted for academic and industrial readers in biology, biotechnology, nutrient physiology and related fields.

Accutane--is this Acne Drug Treatment Linked to Depression and Suicide? -

United States. Congress. House. Committee on Government Reform 2001

Cutaneous Photoaging - Rachel E B Watson 2019-08-22

Photoaging results from chronic exposure to UV radiation and is an increasingly common clinical feature, with an aging population the clinical burden is likely to increase despite advances in our understanding of the pathology and development of improved treatments. This book will present and review the latest progress from the forefront of translational research in cutaneous photoaging. The core chapters focus on the current understanding of the biochemical mechanisms of photoaging and lead on to aspects of photoprotection and photomedicine to provide a complete picture of the current field and a context for the importance of the basic mechanistic understanding. With a global team of authors Cutaneous Photoaging provides an international perspective on the causes, consequences, pathophysiology and treatment of photoaging, ideal for dermatologists, students and professionals in photoscience.

Molecular Biology of Steroid and Nuclear Hormone Receptors - Leonard Freedman 2012-12-06

Intracellular Receptors: New Instruments for a Symphony of Signals In the late eighteenth century, it was proposed on theoretical grounds that each of the body's organs, beginning with the brain, must be "a factory and laboratory of a specific humor which it returns to the blood", and that these circulating signals "are indispensable for the life of the whole" (Bordeu 1775). During the nineteenth century, some remarkable physiological experiments revealed the actions of humoral factors that affected the form and function of multiple tissues, organs and organ systems within the body (Berthold 1849); much later, the chemical and molecular nature of some of those factors was determined. Against this deep historical backdrop of the founding studies of intercellular signaling, molecular biology sprang into existence a mere forty

years ago, rooted in the revelation of regulable gene expression in bacteria. But contemporaneous with those classical analyses of transcriptional regulation of the lactose operon, the modern era of signal transduction was inaugurated by the identification of cAMP as a second messenger -- an intracellular mediator of hormonal activation of glycogen catabolism (Sutherland and Rall 1960). Later in that same decade, it emerged that cAMP is a critical signal not only in metazoans, but even in bacteria, where it serves an analogous function as a critical switch that activates expression of genes required for catabolism of complex carbon sources, including those of the lactose operon.

Analysis of Growth Factor Signaling in Embryos - Malcolm Whitman
2006-08-15

Developmental biologists have been driven to investigate growth factor signaling in embryos in order to understand the regulatory mechanisms underlying a given developmental process. Thus, it is critical to explore the technical methods and experimental designs for growth factor signaling in embryos. Focusing on specific pathways or pathway components, *Analysis of Growth Factor Signaling in Embryos* provides the methods and guidelines for experimental design to study major aspects of cell signaling in vertebrate embryos. The book covers a broad range of topics in signaling and a variety of current model organisms. Section I explores specific signaling pathways or pathway components. In this section, some chapters highlight the biochemistry of signaling pathways during development, which is often distinctive from that observed in cell culture systems. Section II discusses ionic regulatory mechanisms and the two chapters in Section III examine ways of investigating gene regulation in response to extracellular signals. Finally, Section IV addresses emerging strategies that facilitate integrated analyses of cell signaling in vivo in embryonic systems. Featuring contributions from expert researchers, *Analysis of Growth Factor Signaling in Embryos* will provide a foundation for further explorations of the cellular regulatory

mechanisms governing vertebrate embryonic development.

Pathway Analysis for Drug Discovery - Anton Yuryev 2008-09-17

This book introduces drug researchers to the novel computational approaches of pathway analysis and explains the existing applications that can save time and money in the drug discovery process. It covers traditional computational methods and software for pathway analysis microarray, proteomics, and metabolomics. It explains pathway reconstruction of diseases and toxic states, pathway analysis in various phases, dynamic modeling of drug responses, and more. This is a core resource for drug discovery and pharmaceutical industry researchers, chemists, and biologists and for professionals in related fields.

Principles and Practice of Clinical Trials - Steven Piantadosi 2022-07-19

This is a comprehensive major reference work for our SpringerReference program covering clinical trials. Although the core of the Work will focus on the design, analysis, and interpretation of scientific data from clinical trials, a broad spectrum of clinical trial application areas will be covered in detail. This is an important time to develop such a Work, as drug safety and efficacy emphasizes the Clinical Trials process. Because of an immense and growing international disease burden, pharmaceutical and biotechnology companies continue to develop new drugs. Clinical trials have also become extremely globalized in the past 15 years, with over 225,000 international trials ongoing at this point in time. *Principles in Practice of Clinical Trials* is truly an interdisciplinary that will be divided into the following areas: 1) Clinical Trials Basic Perspectives 2) Regulation and Oversight 3) Basic Trial Designs 4) Advanced Trial Designs 5) Analysis 6) Trial Publication 7) Topics Related Specific Populations and Legal Aspects of Clinical Trials The Work is designed to be comprised of 175 chapters and approximately 2500 pages. The Work will be oriented like many of our SpringerReference Handbooks, presenting detailed and comprehensive expository chapters on broad subjects. The Editors are major figures in the field of clinical trials, and both have written textbooks

on the topic. There will also be a slate of 7-8 renowned associate editors that will edit individual sections of the Reference.

Hormones, Genes, and Cancer - Brian E. Henderson 2003-03-13

Hormonal carcinogenesis is an important and controversial area of current research. In addition to accelerating existing cancers, can hormones play the role of primary carcinogens? How do genetic factors influence hormone-related cancer risk? *Hormones, Genes, and Cancer* addresses these questions. Over the past few decades, cancer research has focused on external environmental causes (e.g., tobacco smoke, viruses, asbestos). With the advent of new genetic sequencing techniques, we are just now beginning to understand how the body's internal environment (i.e., the hormones and growth factors that determine normal development) influences cancer etiology and prevention. From molecular insights to clinical analyses, this volume provides state-of-the-art information on the complex interactions between hormones and genes and cancer. The epidemiology and molecular endocrinology of prostate, breast, uterine, ovarian and testicular cancer are detailed in this timely treatise.

The Nuclear Receptor FactsBook - Vincent Laudet 2002

The FactsBook Series has established itself as the best source of easily accessible and accurate facts about protein groups. They use an easy-to-follow format and are researched and compiled by experts in the field. This Factsbook is devoted to nuclear receptors. The first section presents an introduction and describes the mode of action of the receptors in general. The second section of the book contains detailed entries covering each type of receptor. Entries provide information on: Nomenclature and structure, Isolation, DNA binding properties, Ligands, Expression, Target genes, Knockouts, Disease association, Gene structure, promoter and isoforms, Chromosomal location, Amino acid sequences, Key references

Nuclear Receptors - 2003-11-25

Nuclear Receptors are inducible transcription factors that mediate complex effects on development, differentiation and homeostasis. They regulate the transcription of their target genes through binding to DNA sequences.

*Analysis of Nuclear Receptor Ligands *Structure/Function Analysis of Nuclear Receptors *Analysis of Nuclear Receptor Co-Factors and Chromatin Remodeling

Principles of Perinatal-Neonatal Metabolism - Richard M. Cowett 2012-12-06

Here, a stellar international group of contributors examines the various aspects of metabolism in the human adult during pregnancy, in the foetus, and in the new-born. This second edition has been completely updated and now has more than 17 new chapters. Divided into five sections, the book contains discussions of methodologies using molecular biology techniques, expanded coverage of central nervous system metabolism, and an entirely new section on organ-specific metabolism organised according to each organ-system. A must for every physician who cares for the pregnant patient and her child.

Competition Science Vision - 2004-07

Competition Science Vision (monthly magazine) is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India. Well-qualified professionals of Physics, Chemistry, Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to-the-point study material for aspiring candidates. The magazine covers General Knowledge, Science and Technology news, Interviews of toppers of examinations, study material of Physics, Chemistry, Zoology and Botany with model papers, reasoning test questions, facts, quiz contest, general awareness and mental ability test in every monthly issue.

Sensory Nerves - Brendan J. Canning 2009-08-05

The intention of this book is to provide a comprehensive and contemporary review of the biology of sensory nerves. The book is unique, as it

comprehensively covers the role of sensory nerves across many therapeutic areas.

Steroid Receptor Methods - Benjamin A. Lieberman 2001-08-10

A distinguished team of principal investigators and their associates describe in step-by-step detail a cross-section of the latest research techniques available for studying the endocrine system. As a basis for sophisticated biochemical analysis of receptor properties, the contributors provide methods for the production and purification of a variety of receptors, including progesterone, glucocorticoid, and androgen. Other protocols allow the reader to experiment with DNA binding characteristics, hormone binding assays, and the use of combinatorial chemistry for drug discovery. A series of novel methods utilizing the latest advances in immunochemistry, yeast two-hybrid screening, and fluorescence are included for the detection and analysis of a variety of cellular proteins that influence steroid receptor effectiveness.

ACNE and ROSACEA - G. Plewig 2012-12-06

The third, revised edition of this lavishly illustrated book covers all aspects of acne, acne-like disorders and rosacea, including its physiology, pathology, bacteriology, and endocrinology, with special emphasis placed on the histopathology. The text is supplemented by selected references and a richly illustrated portfolio of histopathological pictures. The authors critically examine the spectrum of pharmacological and physical methods of controlling acne, acne-like diseases, and rosacea, and go on to present in detail their personal strategies for successful treatment.

European Handbook of Dermatological Treatments - Andreas D. Katsambas 2015-04-28

This guide to dermatological treatments provides concise yet comprehensive, up-to-date overviews of treatment guidelines and pearls for a plethora of skin diseases. It is divided into three main sections that address the many different skin diseases, the drugs available for dermatological treatments, and the

various methods applied in dermatology, including fillers, botulinum toxin, lasers, dermoscopy, cryosurgery, and electrosurgery. Each skin disease-focused chapter describes current treatments while also providing a brief synopsis of etiology and clinical presentation. Treatment indications and contraindications, modes of action, and dosages are clearly identified. This third edition of the *European Handbook of Dermatological Treatments* has been extensively revised to reflect the advances of the past decade, including biologic agents for psoriasis, also used as promising off-label treatments in other skin diseases, targeted agents for malignant melanoma and basal cell carcinoma, and new treatment modalities for rosacea, acne, atopic dermatitis, and urticaria, to name but a few. The successful easy-to-use format is retained in this new edition, which is enriched with clinical photos that will make reading a pleasurable as well as a learning experience.

Advances in Cancer Research - George F. Vande Woude 2007-04-03

The *Advances in Cancer Research* series provides invaluable information on the exciting and fast-moving field of cancer research. A very special event the Nobel Minisymposium, "Molecular Oncology – From Bench to Bedside," held at the Karolinska Institutet, in Stockholm, Sweden, was marked the celebration of George and Eva Klein's combined 160th birthday. To honor this occasion, this 2nd of two volumes brings together contributions by their former students, colleagues and collaborators of the past fifty years into a volume of *Advances in Cancer Research* dedicated to George and Eva. Over a decade ago, a subdivision of ACR called "Foundations in Cancer Research" was initiated and the tributes honoring the Kleins' bodies of work presented at the minisymposium are especially appropriate for the series.

The Biochemistry of Retinoic Acid Receptors I: Structure, Activation, and Function at the Molecular Level - Mary Ann Asson-Batres 2014-06-24

A role for vitamin A in living organisms has been known throughout human history. In the last 100 years, the biochemical nature of vitamin A and its

active derivative, retinoic acid, its physiological impact on growth processes and the essential details of its mechanism of action have been revealed by investigations carried out by researchers using vertebrate and more recently invertebrate models to study a multiplicity of processes and conditions, encompassing embryogenesis, postnatal development to old age. A wealth of intercellular interactions, intracellular signaling systems and molecular mechanisms have been described and the overall conclusion is that retinoic acid is essential for life. This book series, with chapters authored by experts in every aspect of this complex field, unifies the knowledge base and mechanisms currently known in detailed, engaging, well-illustrated, focused chapters that synthesize information for each specific area. In view of the recent explosion in this field, it is timely to publish a contemporary, comprehensive, book series recapitulating the most exciting developments in the field and covering fundamental research in molecular mechanisms of vitamin A action, its role in physiology, development and continued well-being and the potential of vitamin A derivatives and synthetic mimetics to serve as therapeutic treatments for cancers and other debilitating human diseases. **VOLUME I:** Here, we present the first volume of a multi-volume series on Retinoic Acid Signaling that will cover all aspects of this broad and diverse field. One aim of Volume I is to present a compilation of topics related to the biochemistry of nuclear retinoic acid receptors, from their architecture when bound to DNA and associated with their coregulators to their ability to regulate target gene transcription. A second aim is to provide insight into recent advances that have been made in identifying novel targets and non-genomic effects of retinoic acid. Volume I is divided into ten chapters contributed by prominent experts in their respective fields. Each chapter starts with the history of the area of research. Then, the key findings that contributed to development of the field are described, followed by a detailed look at key findings and progress that are being made in current, ongoing

research. Each chapter is concluded with a discussion of the relevance of the research and a perspective on missing pieces and lingering gaps that the author recommends will be important in defining future directions in vitamin A research.

A Neuropharmacological Comparison of Three Models of Epilepsy Including the Baboon, Papio Papio - Larry Gene Stark 1968

Dermatotoxicology - Klaus Peter Wilhelm 2007-11-26

Reflecting the embryonic state of the field, the first edition of Dermatotoxicology, published in 1977, numbered 567 pages. Now the foundational reference in dermal toxicology, this seventh edition consists of 1,032 pages and defines what was once a largely intuitive field but has evolved into an established science of metrics and mechanisms. Updated and expanded to reflect the latest developments, the seventh edition includes fundamental information on the mechanisms of action of toxic substances on the skin and practical information on the many methods for evaluating dermal toxicity. Unparalleled in its coverage and broad in scope, with the addition of 34 new chapters, this volume keeps pace with the expanding science. A perennial bestseller, this definitive text explores the latest developments in the field. With contributions from leading international experts, it continues the tradition of providing unsurpassed theoretical and practical guidance.

Zebrafish - Patricia McGrath 2012-01-24

Zebrafish: Methods for Assessing Drug Safety and Toxicity offers a practical guide for using zebrafish as a tool for toxicology studies. Consolidating key protocols and approaches to help researchers navigate the important and evolving field of zebrafish models for toxicity screening, this new title describes the methods for using the zebrafish as a model organism to assess compound-induced toxicity on all major organs. Individual chapters that concentrate on assays for each organ system are included and various

analytical tools including microscopy, microplate readers, high content imaging systems, ECG, blood pressure monitors, high speed video and motion detectors are described.

Nuclear Receptors in Development and Disease - 2017-05-17

Nuclear Receptors in Development and Disease, Volume 125, the latest volume in the Current Topics in Developmental Biology series, covers nuclear receptors in development and disease, and includes contributions from an international board of authors. The book's chapters provide a comprehensive set of reviews that cover such topics as nuclear differentiation and remodeling, evolution of receptors, ligand signaling and neural development. Covers the area of nuclear receptors in development and disease Includes contributions from an International board of authors Provides a comprehensive set of reviews on topics as nuclear differentiation and remodeling, evolution of receptors, ligand signaling and neural developments

Competition Science Vision - 2000-12

Competition Science Vision (monthly magazine) is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India. Well-qualified professionals of Physics, Chemistry, Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to-the-point study material for aspiring candidates. The magazine covers General Knowledge, Science and Technology news, Interviews of toppers of examinations, study material of Physics, Chemistry, Zoology and Botany with model papers, reasoning test questions, facts, quiz contest, general awareness and mental ability test in every monthly issue.

From Molecular Biology to Therapeutics - Bruno A. Bernard 1993-01-01

Transcription Factors - Katya Ravid 2003-11-04

Transcription Factors Normal and Malignant Development of Blood Cells

Katya Ravid and Jonathan Licht The role of transcription factors in activating specific genes in blood cells is an important facet of hematopoiesis. Equally important, however, is the pursuit of genes rearranged and aberrantly activated in leukemias (blood malignancies). Transcription Factors: Normal and Malignant Development of Blood Cells focuses on those major transcription factors involved in activation of lineage-specific gene expression during normal versus malignant development of specific blood lineages, as revealed from gene promoter studies, knockout of transcription factors in mice models, and the identification and characterization of chromosomal rearrangement in human blood leukemias. This complete digest of current transcription factor data offers comprehensive coverage of the myriad of transcription factors in blood cell development, composed by established experts in the field. In addition to updating the reader on the connection between chromosomal translocations involving transcription factors and cellular transformation leading to leukemia, Transcription Factors also reviews such subjects as: * Transcription factors and the megakaryocytic, myeloid, and erythroid lineages * Leukemias due to chromosomal translocations involving gene encoding transcription factors * Oncogenesis and hematopoiesis * In vivo studies of transcription factors implicated in hematopoiesis * And much more Appealing to both the researcher and the clinician in the field of hematology, Transcription Factors is a timely presentation of cell lineage development and sheds light on the processes involved in the development of specific leukemias. Providing insight into the study of transcription factors, readers will gain an understanding of mechanisms that lead to normal lineage commitment and terminal differentiation.

Brominated Flame Retardants - Ethel Eljarrat 2011-04-15

Brominated flame retardants are one of the last classes of halogenated compounds that are still being produced worldwide and used in large quantities in many applications. They are used in plastics, textiles, electronic

circuitry, and other materials to prevent fires. This volume covers the state-of-the-art of the analysis, fate and behaviour of brominated flame retardants. Experts in the field provide an overview of the compounds' physico-chemical properties and uses, their occurrence in the environment and biota, advanced chemical analytical methods, degradation studies, toxicological effects and human exposure. This book is a valuable and comprehensive source of information for environmental scientists interested in brominated flame retardant issues, and for authorities and producers.

Dermatotoxicology Methods - Francis N. Marzulli 2019-05-07

This work presents and evaluates methods employed to identify the potential of certain types of chemicals to adversely affect the skin. A variety of test methods are included such as tests for skin penetration, metabolism, irritation, the skin immune system, photo effects, skin cancer, and topical effects of retinoids and depigmenting chemicals. Tests for chemicals that affect the reproductive and nervous system are also included. Both animal and human tests that have been standardised and tests that are under development and employ animal alternatives are addressed in this book. Besides different testing methods, a rationale for accepting non-animal models and a review of some regulatory agency discussions about animal alternative tests are included.

Bones and Cartilage - Brian K. Hall 2014-12-23

Bones and Cartilage provides the most in-depth review and synthesis assembled on the topic, across all vertebrates. It examines the function, development and evolution of bone and cartilage as tissues, organs and skeletal systems. It describes how bone and cartilage develop in embryos and are maintained in adults, how bone is repaired when we break a leg, or regenerates when a newt grows a new limb, or a lizard a new tail. The second edition of *Bones and Cartilage* includes the most recent knowledge of molecular, cellular, developmental and evolutionary processes, which are integrated to outline a unified discipline of developmental and evolutionary

skeletal biology. Additionally, coverage includes how the molecular and cellular aspects of bones and cartilage differ in different skeletal systems and across species, along with the latest studies and hypotheses of relationships between skeletal cells and the most recent information on coupling between osteocytes and osteoclasts. All chapters have been revised and updated to include the latest research. Offers complete coverage of every aspect of bone and cartilage, with updated references and extensive illustrations. Integrates development and evolution of the skeleton, as well a synthesis of differentiation, growth and patterning. Treats all levels from molecular to clinical, embryos to evolution, and covers all vertebrates as well as invertebrate cartilages. Includes new chapters on evolutionary skeletal biology that highlight normal variation and variability, and variation outside the norm (neomorphs, atavisms). Updates hypotheses on the origination of cartilage using new phylogenetic, cellular and genetic data. Covers stem cells in embryos and adults, including mesenchymal stem cells and their use in genetic engineering of cartilage, and the concept of the stem cell niche. [Proceedings of the National Academy of Sciences of the United States of America](#) - National Academy of Sciences (U.S.) 2007

Cancer Research - 2007-11

Pluripotent Stem Cells - Minoru Tomizawa 2016-07-20

Pluripotent stem cells have distinct characteristics: self-renewal and the potential to differentiate into various somatic cells. In recent years, substantial advances have been made from basic science to clinical applications. The vast amount of knowledge available makes obtaining concise yet sufficient information difficult, hence the purpose of this book. In this book, embryonic stem cells, induced pluripotent stem cells, and mesenchymal stem cells are discussed. The book is divided into five sections: pluripotency, culture

methods, toxicology, disease models, and regenerative medicine. The topics covered range from new concepts to current technologies. Readers are expected to gain useful information from expert contributors.

Pharmacological Reviews - 1949

Retinoids - Heinz Nau 2012-12-06

In the future' the decade of the 1990s will likely be viewed as a Golden Age for retinoid research. There have been unprecedented research gains in the understanding of retinoid actions and physiology; since the retinoid nuclear receptors were first identified and the importance of retinoic acid in developmental processes was first broadly recognized in the late 1980s. Between then and now, our knowledge of retinoid action has evolved from one of a near complete lack of understanding of how retinoids act within cells to one of sophisticated understanding of the molecular processes through which retinoids modulate transcription. In this volume, we have tried to provide a comprehensive update of the present understanding of retinoid actions, with an emphasis on recent advances. The initial chapters of the volume, or Section A, focus on the physicochemical properties and metabolism of naturally occurring retinoids: - N OY provides an uncommonly encountered view of retinoid effects from the perspective of the physicochemical properties of retinoids. - V AKIANI and BUCK lend a perspective on the biological occurrence and actions of retro- and anhydro-retinoids. Section B considers both the retinoid nuclear receptors and their mechanisms of action as well as synthetic retinoids that have been used experimentally to provide mechanistic insights into receptor actions and have potential therapeutic use for treating disease: - PIEDRAFITA and PFAHL provide a comprehensive review of retinoid nuclear receptor biochemistry and molecular biology.

Introduction to Radioanalytical Physics - G. Deconninck 2016-08-19

Nuclear Methods, Volume 1: Introduction to Radioanalytical Physics provides

an introduction to the physical principles of radioanalytical methods. This book discusses the nuclear reaction mechanisms, the practical formula for elemental analysis, and the interaction of charged particle beams with matter. Organized into six chapters, this volume begins with an overview of the nuclear reaction principles, including reaction mechanisms, kinematics, and cross sections. This text then explains the calculation of straggling effects that play a major role in depth profile analysis. Other chapters consider the backscattering of heavy charged particles, which is a well-established method for surface analysis of heavy atoms. This book discusses as well the possible use of nuclear reactions as an analytical tool. The final chapter deals with some examples of investigations carried out in various disciplines. This book is a valuable resource for scientists of diverse scientific backgrounds such as biologists, physicists, chemists, engineers, and metallurgists.

Phytochemistry - Chukwuebuka Egbuna 2018-12-12

This volume presents chapters that discuss secondary metabolites of marine origin, the industrial applications of phytochemicals, and recent advances in phytochemical research. It considers production of secondary metabolites and accumulations through in vitro cultures and also reviews the effects of natural products as biopesticides and as eco-friendly corrosion inhibitors. In addition, the volume discusses the effects of the environment on the distribution of phytochemicals and the roles of phytochelators and heavy metal tolerance in plants.

Drug Toxicity in Embryonic Development I - Robert J. Kavlock 2012-12-06

Having received the invitation from Springer-Verlag to produce a volume on drug-induced birth defects for the Handbook of Experimental Pharmacology, we asked ourselves what new approach could we offer that would capture the state of the science and bring a new synthesis of the information on this topic to the world's literature. We chose a three-pronged approach, centered around those particular drugs for which we have a relatively well established

basis for understanding how they exert their unwanted effects on the human embryo. We then supplemented this information with a series of reviews of critical biological processes involved in the established normal developmental patterns, with emphasis on what happens to the embryo when the processes are perturbed by experimental means. Knowing that the search for mechanisms in teratology has often been inhibited by the lack of understanding of how normal development proceeds, we also included chapters describing the amazing new discoveries related to the molecular control of normal morphogenesis for several organ systems in the hope that the experimental toxicologists and molecular biologists will begin to better appreciate each others questions and progress. Several times during the last two years of developing outlines, issuing invitations, reviewing chapters, and cajoling belated contributors, we have wondered whether we made the correct decision to undertake this effort.

Current Pharmaceutical Design - 1996-02

Scientific Frontiers in Developmental Toxicology and Risk Assessment -

National Research Council 2000-11-21

Scientific Frontiers in Developmental Toxicology and Risk Assessment reviews advances made during the last 10-15 years in fields such as developmental biology, molecular biology, and genetics. It describes a novel approach for how these advances might be used in combination with existing methodologies to further the understanding of mechanisms of developmental toxicity, to improve the assessment of chemicals for their ability to cause developmental toxicity, and to improve risk assessment for developmental defects. For example, based on the recent advances, even the smallest, simplest laboratory animals such as the fruit fly, roundworm, and zebrafish might be able to serve as developmental toxicological models for human biological systems. Use of such organisms might allow for rapid and inexpensive testing of large numbers of chemicals for their potential to cause developmental toxicity; presently, there are little or no developmental toxicity data available for the majority of natural and manufactured chemicals in use. This new approach to developmental toxicology and risk assessment will require simultaneous research on several fronts by experts from multiple scientific disciplines, including developmental toxicologists, developmental biologists, geneticists, epidemiologists, and biostatisticians.