

Sex Hormones Macromolecule

The Organism as an Adaptive Control System - John M. Reiner 1968

Bioactive Natural Products - Goutam Brahmachari 2015-01-20

Natural compounds, which have evolved their function over millions of years, are often more efficient than man-made compounds if a specific biological activity is needed, e.g. as an enzyme inhibitor or as a toxin to kill a cancer cell. This book comprising of sixteen technical chapters, highlights the chemical and biological aspects of potential natural products with an intention of unravelling their pharmaceutical applicability in modern drug discovery processes. Key features: Covers the synthesis, semi-synthesis and also biosynthesis of potentially bioactive natural products Features chemical and biological advances in naturally occurring organic compounds describing their chemical transformations, mode of actions, and structure-activity relationships 40 expert scientists from around the world report their latest findings and outline future opportunities for the development of novel and highly potent drugs based on natural products operating at the interface of chemistry and biology Forward-looking: Addresses opportunities and cutting-edge developments rather than well-documented basic knowledge, pinpoints current trends and future directions in this rapidly-evolving field Application-oriented: Throughout the book, the focus is on actual and potential applications in pharmacology and biotechnology This book is an essential resource for natural products chemists, medicinal chemists, biotechnologists, biochemists, pharmacologists, as well as the pharmaceutical and biotechnological industries.

XXIIIe Congrès International de Chimie Pure Et Appliquée - National Research Council (U.S.) 1971
MEDICINAL CHEMISTRY; INSECT CHEMISTRY.

Macromolecular Anticancer Therapeutics - L. Harivardhan Reddy 2010-03-20

In spite of the development of various anticancer drugs, the therapy of cancer has remained challenging for decades. The current therapy of cancer is overwhelmed because of the inability to deliver therapeutics to all regions of a tumor in effective therapeutic concentrations, intrinsic or acquired resistance to the treatment with currently available agents via genetic and epigenetic mechanisms, and toxicity. As a result, cancer therapy using conventional therapeutics and different types of treatment regimens using this therapeutics has not led to a convincing survival benefit of the patients. In this context, Macromolecular therapeutics offer several advantages over conventional low molecular therapeutics by various ways such as, enable the use of larger doses of these agents by limiting the toxicity, by enhanced permeability and retention into tumors, by tumor targeting using tumor-specific antibodies, by specific inhibition of oncogenes using anticancer oligonucleotides etc. Cancer treatment using this macromolecular therapeutics has considerably improved the survival benefit for patients. As a result, various macromolecular therapeutics are already commercialized or are under clinical development. Although we are far from a real magic bullet today, looking at the pace of research and current success in this field of macromolecular therapeutics, it appears that we are approaching a magic bullet for the efficient treatment of cancer. Thus, we believe that the subject of this book is very timely, and that the book will fill an unmet need in the market. This book is unique and assembles various types and aspects of macromolecular anticancer therapeutics for cancer therapy in one shell and conveys the importance of this interdisciplinary field to the broad audience. Thus, in a nutshell, this book details the basics of cancer, and various therapeutic strategies such as those based on macromolecular therapeutics hence can become an important reference for practitioners, oncologists, medical pharmacologists, medicinal chemists, biomedical scientists, experimental pharmacologists, pharmaceutical technologists, and particularly it can essentially become a handbook of macromolecular therapeutics for cancer therapy for graduates, post-graduates and Ph.D. students in these fields.

Growth Hormone, Prolactin, and IGF-1 as Lymphohemopoietic Cytokines - Elisabeth Hooghe-Peters 1995

Hormones and Reproduction in Fishes, Amphibians, and Reptiles - David O. Norris 2012-12-06

Comparative endocrinology is one of the most rapidly developing subdisciplines within the field of endocrinology, and it is having a significant impact on research at the molecular, cellular, organismal and environmental levels. Much of the current ferment in endocrinology is in reproductive endocrinology. The purpose of this volume on hormones and reproduction in fishes, amphibians and reptiles is to summarize our present understandings and to identify important research problems to be addressed in the area of comparative reproductive endocrinology. It was inspired by the gathering at Copper Mountain, Colorado, of eminent endocrine scientists from around the world on the occasion of the Tenth International Symposium on Comparative Endocrinology in July, 1985. While preparing for that meeting, we decided that a special volume on reproductive endocrinology was needed to summarize what is known and to stimulate research in particular directions. Why do we emphasize fishes, amphibians and reptiles? First, knowledge about the reproductive endocrinology of these ectothermic vertebrates can provide a clearer picture of the evolution of reproductive hormones and their effects on target organs. This comparative approach can lead to new theories about the evolution of reproductive control mechanisms. Second, studies concerning the reproductive endocrinology of "lower" vertebrates can result in development of "model systems" for application to studies of birds and mammals. Indeed, information about the patterns of reproductive control in ectothermic vertebrates can tell us which are evolutionarily stable and which are labile.

Macromolecules Regulating Growth and Development - Elizabeth Hay 2012-12-02

Macromolecules Regulating Growth and Development documents the proceedings of the 30th Symposium of the Society for Developmental Biology, held at the University of Washington in Seattle, June 17-19, 1971. The contributions made by researchers at the symposium are organized into three parts. Part I deals with regulatory factors in the selective growth of mammalian cells. It includes papers on the role of the cell surface in growth and transformation; the epidermal growth factor; and the role in regulation of tumor growth. Part II examines the formation and organization of plant cell walls and the plasma membrane. It presents studies on the origin and growth of cell surface components; synthesis and secretion of proteins in plant cells; and lipids and membrane structure. Part III deals with the organization and expression of genetic information. The contributions in this section include organization of DNA and proteins in mammalian chromosomes; total synthesis of transfer RNA genes; and biosynthesis of bacterial ribosomes.

Hormone Action - Robert F. Goldberger 2013-11-21

The motivation for us to conceive this series of volumes on regulation was mainly our belief that it would be fun, and at the same time productive, to approach the subject in a way that differs from that of other treatises. We thought it might be interesting and instructive for both author and reader to examine a particular area of investigation in a framework of many different problems. Cutting across the traditional boundaries that have separated the subjects in past volumes on regulation is not an easy thing to do not because it is difficult to think of what interesting topics should replace the old ones, but because it is difficult to find authors who are willing to write about areas outside those pursued in their own laboratories. Anyone who takes on the task of reviewing a broad area of interest must weave together its various parts by picking up the threads from many different laboratories, and attempt to produce a fabric with a meaningful design. Finding persons who are likely to succeed in such a task was the most difficult part of our job. In the first volume of this treatise, most of the chapters dealt with the mechanisms of regulation of gene expression in microorganisms. The second volume involved a somewhat broader area, spanning the prokaryotic-eukaryotic border. Topics ranged from phage morphogenesis to the role of gradients in development. This third volume-Volume 3A concerns hormones, as does the forthcoming companion volume-Volume 3B.

Biological Macromolecules - Amit Kumar Nayak 2021-11-23

Biological Macromolecules: Bioactivity and Biomedical Applications presents a comprehensive study of biomacromolecules and their potential use in various biomedical applications. Consisting of four sections, the book begins with an overview of the key sources, properties and functions of biomacromolecules, covering the foundational knowledge required for study on the topic. It then progresses to a discussion of the various bioactive components of biomacromolecules. Individual chapters explore a range of potential bioactivities, considering the use of biomacromolecules as nutraceuticals, antioxidants, antimicrobials, anticancer agents, and antidiabetics, among others. The third section of the book focuses on specific applications of biomacromolecules, ranging from drug delivery and wound management to tissue engineering and enzyme immobilization. This focus on the various practical uses of biological macromolecules provide an interdisciplinary assessment of their function in practice. The final section explores the key challenges and future perspectives on biological macromolecules in biomedicine. Covers a variety of different biomacromolecules, including carbohydrates, lipids, proteins, and nucleic acids in plants, fungi, animals, and microbiological resources Discusses a range of applicable areas where biomacromolecules play a significant role, such as drug delivery, wound management, and regenerative medicine Includes a detailed overview of biomacromolecule bioactivity and properties Features chapters on research challenges, evolving applications, and future perspectives

The Art of Process Chemistry - Nobuyoshi Yasuda 2010-12-01

Providing must-have knowledge for the pharmaceutical industry and process chemists in industry, this ready reference offers solutions for saving time and money and supplying -- in a sustainable way -- valuable products. Application-oriented and well structured, each chapter presents successful strategies for the latest modern drugs, showing how to provide very fast bulk quantities of drug candidates. Throughout, the text illustrates how all the key factors are interwoven and dependent on one another in creating optimized methods for optimal products.

Hormones and the Fetus - J. R. Pasqualini 2013-10-22

Volume One of *Hormones and the Fetus* contained a generalization of the role of hormones during fetal life. In this second volume, the main topics focus on hormonal binding to fetal and maternal plasma proteins, amniotic fluid and placenta; the presence of hormone receptors in the fetal compartment; and the mechanism of action of various hormones in different target tissues of the fetus and placenta. This up-to-date information is of major importance in the study of hormonal activity in fetal life, and the biological effect of hormones through the receptor. The mechanism of fetal sexual differentiation, in which hormones play an important role, is extensively covered.

Macromolecular Changes in Atherosclerosis - Constantin Velican 1974

Cumulated Index Medicus - 1985

Tumors and Tumorlike Conditions of the Ovary - Lawrence M. Roth 1985

Human Biological Aging - Glenda E. Bilder 2016-04-04

Comprehension of the theories of aging requires rudimentary knowledge of oxidation and reduction reactions, protein function, cell organelles, mitosis, acquired immunity, and evolution, among other basic biological concepts. Without these fundamentals, students of biological aging struggle to learn the essentials of biological aging and how to appreciate the research advances in the field. *Human Biological Aging: From Macromolecules To Organ-Systems* is an introduction to human aging from the level of macromolecules to organ systems. Age changes in proteins, DNA, polysaccharides and lipids are discussed relative to known age-related alterations in structure and function produced by free radicals and oxidants. At the cellular level, age-dependent mechanisms that diminish organelle function are described. Cellular phenomena of replicative senescence apoptosis, autophagy and neuroplasticity are detailed as to their contribution to compromised cellular functions. Authored by a leader in the field, *Human Biological Aging: From Macromolecules To Organ-Systems* is an invaluable introduction for those studying human aging.

The Lignan Macromolecule from Flaxseed - Karin Struijs 2008

Lignans are diphenolic compounds, which are of interest because of their positive health effects. The aims

of the research described in this thesis are to identify the precise composition and structure of the lignan macromolecule from flaxseeds, to convert plant lignans into the bioactive mammalian lignans by fermentation, and to investigate how the bioconversion of lignans influences their estrogenicity. In order to be able to reach these goals, analytical and preparative protocols were developed. The lignan macromolecule from flaxseed was found to consist of mainly secoisolariciresinol diglucoside (SDG) ester-linked via 3-hydroxy-3-methylglutaric acid (HMGA). Furthermore, the hydroxycinnamic acid glucosides, coumaric acid glucoside (CouAG) and ferulic acid glucoside (FeAG) were identified as constituents as well. The flavonoid herbactin diglucoside (HDG) was identified as a novel constituent of the lignan macromolecule. HDG is, just as SDG, esterified within the lignan macromolecule via HMGA. CouAG was found to link to the C-6 of a glucosyl moiety of SDG, and FeA to the C-2. The results suggested that CouAG and FeAG are mainly present at the terminal positions and, therefore, it was hypothesized that they determine the chain length of the lignan macromolecule. By modeling the relationship between the composition and the size it was shown that the average lignan macromolecule consists of three SDG units with two hydroxycinnamic acid glucosides at the terminal positions. Lignans were converted to the mammalian lignans by fermentation. Secoisolariciresinol (SECO) and its dehydrated derivative, anhydrosecoisolariciresinol (AHS), were demethylated in a similar way by *Peptostreptococcus productus*, *Eubacterium limosum* and *Clostridium methoxybenzovorans*. The dehydroxylation reaction was found to be more specific. Demethylated SECO could be dehydroxylated completely by *Eggerthella lenta*. Demethylated AHS was dehydroxylated to a lower extent than demethylated SECO. The products obtained by fermentation were purified by preparative RP-HPLC loading the samples by at-column-dilution. Furthermore, lignans from sesame seeds were investigated. Only by combining APCI-MS in the positive and the negative ionization mode, all sesame-derived lignans in complex (fermentation) mixtures could be identified. In conclusion, this research resulted in a more detailed description of the lignan macromolecule from flaxseeds. Two series of structurally different lignans were obtained by bacterial conversion.

Concepts of Biology - Samantha Fowler 2018-01-07

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, *Concepts of Biology* is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of *Concepts of Biology* is that instructors can customize the book, adapting it to the approach that works best in their classroom. *Concepts of Biology* also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

The Binding of Corticosteroids by Plasma Macromolecules - Ute Ingrid Richardson 1964

Diet and Health - National Research Council 1989-01-01

Diet and Health examines the many complex issues concerning diet and its role in increasing or decreasing the risk of chronic disease. It proposes dietary recommendations for reducing the risk of the major diseases and causes of death today: atherosclerotic cardiovascular diseases (including heart attack and stroke), cancer, high blood pressure, obesity, osteoporosis, diabetes mellitus, liver disease, and dental caries.

Im/partial Science - Bonnie Spanier 1995

Best known today for her nature writing and southwestern cultural studies, Mary Hunter Austin (1868-1934) has been increasingly recognized for her outspoken essays on feminist themes. This volume collects her nonfiction journalism, with each essay prefaced by brief introductory remarks by the editor. Annotation copyright by Book News, Inc., Portland, OR

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