

Sex Hormones Derived From Which Class Of Lipid

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From Emergence to Endemicity: A Comprehensive Review of ... - Cureus

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Role of gender in explaining metabolic syndrome risk factors in an ... - Nature.com

[Profiling the human intestinal environment under physiological ... - Nature.com](#)

Cardiomyocyte-specific disruption of the circadian BMAL1-REV ... - Nature.com

[Annual banned-substance review 16th edition—Analytical ... - John Wiley](#)

[Male Infertility: Causes, Diagnosis, and Treatment - Verywell Health](#)

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Gut-specific telomerase expression counteracts systemic aging in ... - Nature.com

Serine starvation silences estrogen receptor signaling through ... - pnas.org

Consolidation of metabolomic, proteomic, and GWAS data in ... - Nature.com

[Is Weight Loss a Side Effect of Metformin? - Verywell Health](#)

[Invexxy: Side effects, alternatives, dosage, uses, and more - Medical News Today](#)

[FPR2 Shapes an Immune-Excluded Pancreatic Tumor ... - Cancer Discovery](#)

[Regulation of cholesterol homeostasis in health and diseases: from ... - Nature.com](#)

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Relationship of serum bile acids with fat deposition | CEG - Dove Medical Press

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[Addressing sex differences in autoimmune diseases - Drug Discovery News](#)

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[Low Testosterone: Symptoms, Causes, and Treatment - Verywell Health](#)

Understanding Metformin Side Effects: Risks and Precautions - Health Central

Lipidomic signatures align with inflammatory patterns and outcomes ... - Nature.com

[Low Cholesterol Diet: Top Nutrients \(With Meal Ideas\) - Verywell Health](#)

Triple-Negative Breast Cancer: Stages, Treatment, Prognosis - Verywell Health

A Comprehensive Literature Review on Managing Systemic Lupus ... - Cureus

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[Feasibility of high-dose tadalafil and effects on insulin resistance in ... - The Lancet](#)

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Heart-Brain Health: A Two-Way Street | Harvard Medicine Magazine - magazine.hms.harvard.edu

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Compare The 8 Best Male Enhancement Pills with the Strongest ... - Whidbey News-Times
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Correlated evolution of social organization and lifespan in mammals - Nature.com
Precision Medicine in T2DM: Utility and Limitations | DMSO - Dove Medical Press
Should Women Take Menopausal Hormone Therapy for the Health Benefits? The Debate That's
Dividing Doctors - SheKnows
Chemical Classes Of Hormones - News-Medical.Net
Longitudinal trajectory of vascular age indices and cardiovascular ... - Nature.com
Age-related changes in circadian regulation of the human plasma ... - Nature.com
Deficiency of histone variant macroH2A1.1 is associated with ... - Nature.com
Obese visceral fat tissue inflammation: from protective to detrimental ... - BMC Medicine
Endometriosis After Menopause: How to Recognize and Treat - Verywell Health
Metagenome and metabolome insights into the energy ... - Nature.com
Hypergonadotropic Hypogonadism: Causes, Symptoms & More - Verywell Health
Maximizing the value of twin studies in health and behaviour - Nature.com
Hirsutism (Excessive Hair Growth in Females): Symptoms, Causes ... - Verywell Health
Female doping: observations from a data lake study in the Hospital ... - BioMed Central
PCOS and hormone profiling: How does it work? - Hindustan Times
Body composition and cancer survival: a narrative review | British ... - Nature.com
Drug-microbiota interactions: an emerging priority for precision ... - Nature.com
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Prostaglandin F2 α drives female pheromone signaling in cichlids ... - pnas.org
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Effect of hormonal therapy on the otoconial changes caused by ... - Nature.com
Need to boost your testosterone? Here's how to do it (safely) - British GQ
Perioral secretions enable complex social signaling in African mole ... - Nature.com
An iPSC-derived astrocyte model of fragile X syndrome exhibits ... - Nature.com
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Brain sex-dependent alterations after prolonged high fat diet ... - Nature.com
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Distinctive features of the oropharyngeal microbiome in Inuit of ... - Nature.com

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[The relationship between menopausal syndrome and gut microbes ... - BioMed Central](#)

Circulating fructose regulates a germline stem cell increase via ... - Science

[Next Generation, Modifiable Cardiometabolic Biomarkers ... - AHA Journals](#)

[Principles of Endocrinology and Hormone Action](#)

- Antonino Belfiore 2018-02-08

This volume provides comprehensive coverage of the current knowledge of the physiology of the endocrine system and hormone synthesis and release, transport, and action at the molecular and cellular levels. It presents essential as well as in-depth information of value to both medical students and specialists in Endocrinology, Gynecology, Pediatrics, and Internal Medicine.

Although it is well established that the endocrine system regulates essential functions involved in growth, reproduction, and homeostasis, it is increasingly being recognized that this complex regulatory system comprises not only hormones secreted by the classic endocrine glands but also hormones and regulatory factors produced by many organs, and involves extensive crosstalk with the neural and immune system. At the same time, our knowledge of the molecular basis of hormone action has greatly improved.

Understanding this complexity of endocrine physiology is crucial to prevent endocrine disorders, to improve the sensitivity of our diagnostic tools, and to provide the rationale for pharmacological, immunological, or genetic interventions. It is such understanding that this book is designed to foster.

[Lipid Signaling and Metabolism](#) - James M.

Ntambi 2020-08-09

Lipid Signaling and Metabolism provides foundational knowledge and methods to examine lipid metabolism and bioactive lipid signaling mediators that regulate a broad spectrum of biological processes and disease states. Here, world-renowned investigators offer a basic examination of general lipid, metabolism, intracellular lipid storage and utilization that is followed by an in-depth discussion of lipid signaling and metabolism across disease areas, including obesity, diabetes, fatty liver disease, inflammation, cancer, cardiovascular disease and mood-related disorders. Throughout,

authors demonstrate how expanding our understanding of lipid mediators in metabolism and signaling enables opportunities for novel therapeutics. Emphasis is placed on bioactive lipid metabolism and research that has been impacted by new technologies and their new potential to transform precision medicine.

Provides a clear, up-to-date understanding of lipid signaling and metabolism and the impact of recent technologies critical to advancing new studies Empowers researchers to examine bioactive lipid signaling and metabolism, supporting translation to clinical care and precision medicine Discusses the role of lipid signaling and metabolism in obesity, diabetes, fatty liver disease, inflammation, cancer, cardiovascular disease and mood-related disorders, among others

Steroids and their Medicinal Potential - Abid Hussain Banday 2023-07-18

Steroids are an important class of biomolecules with diverse roles and functions. Besides being important as structural and signaling molecules, these molecules hold promise against numerous disorders, including cardiovascular conditions, cancer, inflammation, and autoimmune disorders. Many investigations have demonstrated that steroidal frameworks may provide lipid solubility, receptor selectivity, or membrane binding properties to non-steroidal pharmacophores. However, the therapeutic use of steroids can be dangerous when they're used incorrectly. Additionally, misconceptions about steroids among athletes or recreational users can lead to steroid abuse and poor health outcomes. Steroids and their Medicinal Potential discusses the classification, distribution, biosynthesis, chemical synthesis, and semi-synthesis of different steroids. The medicinal potential of each class is exhaustively discussed in different chapters. The latest advances and developments in steroid-based drug discovery are also discussed thoroughly. The book aims to

address general questions and concerns about steroids, providing readers with a useful resource on the subject. Key Features -Provides comprehensive coverage on all aspects of steroids including steroid chemistry, biochemistry, medicinal potential, drug discovery, and advances in target-binding interactions of steroid-based drugs -Includes chapters dedicated to anabolic steroids and their abuse -Designed as an accessible source of information for understanding steroidal drugs with structured chapters-Includes references for advanced readers.

Intravenous Lipid Emulsions - P.C. Calder
2014-11-26

Lipids have been in clinical use as components of intravenous nutrition for over 50 years. Over the last 15 years, new and improved lipids that include olive oil and/or fish oil have replaced the more traditional ones. These new lipids offer the opportunity to deliver high amounts of fatty acids and possess different functional properties: in particular, they can influence inflammatory processes, immune responses and hepatic metabolism. This book brings together articles written by leading international authorities in the area of intravenous lipids. Contributions discuss the latest findings in the field, ranging from pre-clinical research to the most recent clinical trials. Lipid functionality and utility in pediatric, adult surgical and critically ill patients are covered, as is the use of lipids in long-term home parenteral nutrition. Addressing a broad spectrum of topics, this publication provides a wealth of information for basic scientists, clinical researchers and clinical practitioners alike.

Adipose Tissue Biology - Michael E. Symonds
2017-04-03

The past decade has seen an exponential increase in our knowledge and understanding of adipose tissue biology. This has coincided with the continued rise in obesity across all generations. Clearly despite substantial advances in research into adipose tissue this still has had limited impact on the on-going obesity epidemic across a majority of countries in the world. This book brings together many leading experts in the field to provide an up to date and comprehensive review of the key aspects of adipose tissue. It therefore includes chapters on

evolution, development and inflammation together with a detailed review of brown and beige adipose tissue biology and their potential significance in preventing or combating obesity. These chapters are complemented by those on genetics and gender influences, together with nutrition through the life cycle. Ultimately the book provides an overview of the complexities of adipose tissue biology and the continuing challenge to combat obesity in the 21st century.

Historical Encyclopedia of Natural and Mathematical Sciences - Ari Ben-Menahem
2009-03-06

This 5,800-page encyclopedia surveys 100 generations of great thinkers, offering more than 2,000 detailed biographies of scientists, engineers, explorers and inventors who left their mark on the history of science and technology. This six-volume masterwork also includes 380 articles summarizing the time-line of ideas in the leading fields of science, technology, mathematics and philosophy.

Polycystic Ovary Syndrome - Andrea Dunaif
2008-01-12

This volume includes the latest diagnostic criteria for PCOS and comprises the most up-to-date information about the genetic features and pathogenesis of PCOS. It critically reviews the methodological approaches and the evidence for various PCOS susceptibility genes. The book also discusses additional familial phenotypes of PCOS and their potential genetic basis. All four editors of this title are extremely prominent in the field of PCOS.

Fat Detection - Jean-Pierre Montmayeur
2009-09-14

Presents the State-of-the-Art in Fat Taste Transduction A bite of cheese, a few potato chips, a delectable piece of bacon - a small taste of high-fat foods often draws you back for more. But why are fatty foods so appealing? Why do we crave them? Fat Detection: Taste, Texture, and Post Ingestive Effects covers the many factors responsible for the sensory appeal of foods rich in fat. This well-researched text uses a multidisciplinary approach to shed new light on critical concerns related to dietary fat and obesity. Outlines Compelling Evidence for an Oral Fat Detection System Reflecting 15 years of psychophysical, behavioral, electrophysiological, and molecular studies, this book makes a well-

supported case for an oral fat detection system. It explains how gustatory, textural, and olfactory information contribute to fat detection using carefully designed behavioral paradigms. The book also provides a detailed account of the brain regions that process the signals elicited by a fat stimulus, including flavor, aroma, and texture. This readily accessible work also discusses: The importance of dietary fats for living organisms Factors contributing to fat preference, including palatability Brain mechanisms associated with appetitive and hedonic experiences connected with food consumption Potential therapeutic targets for fat intake control Genetic components of human fat preference Neurological disorders and essential fatty acids Providing a comprehensive review of the literature from the leading scientists in the field, this volume delivers a holistic view of how the palatability and orosensory properties of dietary fat impact food intake and ultimately health. Fat Detection represents a new frontier in the study of food perception, food intake, and related health consequences.

Anatomy and Physiology - J. Gordon Betts
2013-04-25

Hormonal Regulation of the Class B Scavenger Receptors CD36 and SR-BI, in the Rat Liver - Rebecca Lee Fitzsimmons 2010

CD36 or fatty acid translocase (FAT) is an 88 kDa cell surface protein. It is characterised functionally as a Scavenger Receptor, and it is the founding member of the Class B subtype, which also includes the HDL receptor, Scavenger Receptor Class B-I (SR-BI). A common feature of all scavenger receptors is a broad binding specificity and many ligands have been identified for CD36. Of particular interest to this project are the metabolic ligands, such as native and modified lipoprotein particles and long chain fatty acids. In the rat, others have reported that CD36 is expressed in heart muscle, intestine, spleen, skeletal muscle, adipose tissue and testis. Previous work in our laboratory, using a new monoclonal antibody (mAb UA009), extended the distribution of CD36 to include the adrenal cortex, the ovary and the parenchymal cells of the liver. Furthermore it was noted that hepatocytes from female DA rats expressed considerably more CD36 than their male

counterparts. The scope and objective of this project was to investigate the effects of gender on expression of CD36 in the liver, and to compare it with expression of SR-BI. Expression of CD36 was examined in vivo, in normal and experimentally manipulated female and male rats and mice, using immuno-histochemistry plus video-image analysis, quantitative Western blot and real-time PCR techniques. It was shown that female predominant expression of CD36 i) is specific to the liver, ii) occurs in many strains of laboratory rats, and iii) is also present in three mouse strains. Investigation of CD36 expression during post-natal development revealed that in neonates, the protein is not expressed by parenchymal cells of the liver. Although CD36 is expressed by hepatocytes from approx. 4 weeks of age, the adult pattern (female predominant) was not observed until the onset of puberty. No changes in the levels of SR-BI expression were observed during development. The role of hormones in regulating expression of CD36 was investigated by observing the effects of gonadectomy and supplementation with sex steroid hormones. Hepatic expression of CD36 was reduced by oophorectomy and increased by castration. Sexually dimorphic expression was restored by administration of estrogen or testosterone to gonadectomised females and males, respectively. Inhibition of gonadotropin release did not alter the effect of castration but the gender difference, and the response to gonadectomy, was reduced in growth hormone-deficient rats. In contrast, SR-BI was barely detectable in liver by immuno-histochemistry in either sex, although modest differences between females and males and changes in response to gonadectomy were observed in levels of Sr-bI/II transcripts. The results demonstrated the importance of the endocrine milieu in the regulation of CD36 expression by the liver. Although the initial acquisition of CD36 expression during postnatal development is sex steroid hormone independent, the sexually dimorphic adult pattern of expression coincides with the onset of puberty. The influence of sex steroids on hepatic CD36 expression is mediated via their interplay with the hypothalamic-pituitary axis, rather than by a direct action on the liver. Thus, the expression of CD36 in hepatocytes is regulated by mechanisms that are

distinct from those that regulate fellow class B scavenger receptor family member, SR-BI. In conclusion, CD36 is known to be a receptor for long chain fatty acids and for both native and modified lipoproteins. If hepatic expression of CD36 is also regulated by steroid sex hormones in humans, these findings could have important implications for understanding differences in lipid handling by the liver in females and males, and the possible consequences of therapeutic manipulation of these hormones.

The Coronary Drug Project - National Heart Institute (U.S.) 1967

INFERTILITY Diagnosis, Management and IVF - Anil Dubey 2012-05-18

This book is a comprehensive guide to the diagnosis and management of infertility. Beginning with an introduction to infertility and fertility testing, the following chapters discuss the causes and treatment of both male and female infertility, In Vitro Fertilisation (IVF), guidelines for infertility treatments and birth defects. The final sections examine regulatory issues and social and emotional aspects of assisted reproductive technology (ART). Authored by renowned experts in the USA, this manual includes more than 200 colour images and illustrations.

The Clinical Utility of Compounded Bioidentical Hormone Therapy - National Academies of Sciences, Engineering, and Medicine 2020-10-22

The U.S. Food and Drug Administration (FDA) has approved dozens of hormone therapy products for men and women, including estrogen, progesterone, testosterone, and related compounds. These products have been reviewed for safety and efficacy and are indicated for treatment of symptoms resulting from hormonal changes associated with menopause or other endocrine-based disorders. In recent decades, an increasing number of health care providers and patients have turned to custom-formulated, or compounded, drug preparations as an alternative to FDA-approved drug products for hormone-related health concerns. These compounded hormone preparations are often marketed as "bioidentical" or "natural" and are commonly referred to as compounded bioidentical hormone therapy (cBHT). In light of the fast-growing

popularity of cBHT preparations, the clinical utility of these compounded preparations is a substantial public health concern for various stakeholders, including medical practitioners, patients, health advocacy organizations, and federal and state public health agencies. This report examines the clinical utility and uses of cBHT drug preparations and reviews the available evidence that would support marketing claims of the safety and effectiveness of cBHT preparations. It also assesses whether the available evidence suggests that these preparations have clinical utility and safety profiles warranting their clinical use and identifies patient populations that might benefit from cBHT preparations in lieu of FDA-approved BHT.

Hormones - Anthony W. Norman 2014-06-28
Hormones provides a comprehensive treatment of human hormones viewed in the light of modern theories of hormone action and in the context of current understanding of subcellular and cellular architecture and classical organ physiology. The book begins with discussions of the first principles of hormone action and the seven classes of steroid hormones and their chemistry, biosynthesis, and metabolism. These are followed by separate chapters that address either a classical endocrine system, e.g., hypothalamic hormones, posterior pituitary hormones, anterior pituitary hormones, thyroid hormones, pancreatic hormones, gastrointestinal hormones, calcium regulating hormones, adrenal corticoids, hormones of the adrenal medulla, androgens, estrogens and progestins, and pregnancy and lactation hormones; or newer domains of hormone action which are essential to a comprehensive understanding of hormone action, including prostaglandins, thymus hormones, and pineal hormones. The book concludes with a presentation of hormones of the future, i.e., cell growth factors. This book is intended for use by first-year medical students, graduate students, and advanced undergraduates in the biological sciences. It is also hoped that this book will fill the void that exists for resource materials for teaching cellular and molecular endocrinology and that it will be employed as an equal partner with most standard biochemistry textbooks to provide a comprehensive and balanced coverage of this

realm of biology.

College Biology Volume 3 of 3 - Textbook Equity
2014-08-15

(Chapters 33 - 47) See Preview for the full table of contents. All volumes contain Chapter Summaries, Review Questions, Critical Thinking Questions and Answer Keys. Download the free color PDFs at http://textbookequity.org/tbq_biology/

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The full text (volumes 1 through 3) is designed for multi-semester biology courses for science majors. Textbook License: CC BY-SA Fearlessly Copy, Print, Remix Textbook Equity - An Equitable Business Model. Contents Volume 1 The Chemistry of Life through Genomic Proteomics Volume 2 Evolution and the Origin of Species through Asexual Reproduction Volume 3 Animal Structure and Function through Preserving Biodiversity

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.

Sex Hormones in Neurodegenerative Processes and Diseases - Gorazd Drevensek
2018-05-02

The book provides chapters on sex hormones and their modulation in neurodegenerative processes and pathologies, from basic molecular mechanisms, physiology, gender differences, to neuroprotection and clinical aspects for potential novel pharmacotherapy approaches. The book contains 14 chapters written by authors from various biomedical professions, from basic researchers in biology and physiology to medicine and veterinary medicine, pharmacologists, psychiatrist, etc. Chapters sum up the past and current knowledge on sex hormones, representing original new insights into their role in brain functioning, mental disorders and neurodegenerative diseases. The book is written for a broad range of audience, from biomedical students to highly profiled medical specialists and biomedical researchers, helping them to expand their knowledge on sex hormones in neurodegenerative processes and opening new questions for further investigation.

Hyperandrogenism in Women - R. Pasquali
2019-09-09

Hyperandrogenism profoundly affects women's lives from lowering self-esteem to changing cognition and affective motivation. The polycystic ovary syndrome (PCOS) is the most common androgen excess disorder worldwide. While it is not the focus of this book, some aspects are discussed. The aim of this book is to improve understanding of androgen excess and its impact on several conditions. Topics include development of adipose tissue in females, insulin sensitivity, congenital adrenal hyperplasia, and Cushing's disease/syndrome. There is also a discussion of PCOS with emphasis on in utero origins and specific genetic and epigenetic factors. This book provides a wealth of relevant information for every endocrinologist and gynecologist who wants to broaden their knowledge of androgens in various conditions. *Diet and Health* - National Research Council
1989-01-01

Diet and Health examines the many complex
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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.

Environmental Contaminants and Endocrine Health - Oliana Carnevali 2023-05-30

Environmental Contaminants and Endocrine Health focuses specifically on contaminants with hormonal disrupting activities. The book provides insights into the multiple effects of endocrine-disrupting chemicals (EDCs) and their mechanism of action (MoA) on metabolism, reproduction and the multiple physiological roles of the endocannabinoid system which has recently been indicated as new target. The content systematically covers EDC sources and effects, EDCs as sources of disease and health

impairment in laboratory models, EDCs as the cause of disease and health impairment in humans and wild species, and the removal of hazardous pollutants from wastewaters to highlight intervention, mitigation and adaptation for reduced threat. This content will be a foundational resource for academic and research staff in endocrinology and hormone toxicology as well as for professors, researchers and students in these areas. Includes important foundational coverage of the endocrine system, definitions of EDC sources and descriptions, model examples and mechanisms of action biological effects Provides coverage of EDC effects in humans and animals, from metabolic alterations to epidemiological studies of fertility and metabolism Presents insights into the confirmed and suspected human diseases spectrum with origins linked to EDC exposure, including cancers, intellectual disabilities, autism, birth defects of the urethra (hypospadias), decreased sperm count, increased rates of miscarriage, obesity, type 2 diabetes, and more

Sex Hormones Derived From Which Class Of Lipid:

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