

Sex Hormones And Immune System

Steroids - Sergej Ostojic 2012-11-21
Steroids - From Physiology to Clinical Medicine covers contemporary basic science on steroids research, along with steroids practical application in clinical medicine. We start by describing physiological and pathophysiological roles of steroids, with reference to production and action of gonadal steroids, role of steroid sulfonation, sex specific and steroids-dependent mechanism of hippocampal function, and the hydroxysteroid dehydrogenases for the modulation of tissue glucocorticoid availability. We then covered different aspects of steroids application in clinical environment, such as endocrine function after ovarian transplantation, diagnostic significance of salivary assessment of

androgens, drawbacks of steroids use in sport, analysis of serum steroid hormone profiles in patients with adrenocortical tumors, and correlation between salivary and serum cortisol responses after alcohol intake. In response to the need to address novel and valuable information on steroids science and medicine, we sincerely hope that this book will enable readers to comprehend this fast-growing and exciting scientific discipline.

The Influence of Sex Hormones on the Development of the Immune System in Infants - Louise Lundgren 2012

[The Effects of the Reproductive Condition and Sex Hormones on the Immune System](#) -

Annechien Bouman 2005

Sex Bias in Autoimmunity: From Animal Models to Clinical Research and Applications - Coziana Ciurtin 2023-01-17

Autoimmune diseases are characterized by an abnormal and self-directed immune response leading to damage and dysfunction of multiple organs and tissues. Most autoimmune diseases are recognized as affecting disproportionately more women than men, suggesting a crucial role of sex hormones in modulating immune responses, with estrogens being postulated as enhancing autoimmunity and androgens playing a protective role. It is also widely acknowledged that there is an overwhelming male bias in non-human (animal) studies of autoimmune diseases, while studies of both sexes in human research frequently fail to analyze results by sex. Underrepresentation of females in animal models of autoimmune disease is often justified by their intrinsic variability during the

reproductive period, compromising the understanding of impact of the female sex chromosome and hormones on immune system functions leading to the high prevalence of autoimmune conditions. This Research Topic will highlight the most recent advances in understanding the possible mechanisms for sex-specific differences in autoimmunity, with a specific focus on pre-clinical animal and human models of autoimmune inflammation, as well as on the most common sex specific differences in autoimmune diseases. The topic will emphasize advances in research exploring sex determinants in autoimmune rheumatic diseases such as systemic lupus erythematosus, rheumatoid arthritis, spondyloarthritis, psoriatic arthritis, Sjögren's syndrome and further diseases such as inflammatory bowel disease, autoimmune hepatitis, multiple sclerosis, psoriasis, asthma and more. The present Research Topic will include both full length and short research communications, as well as perspective and

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review articles addressing various aspects of sex biased differences in pathogenesis, age at disease onset, clinical manifestations, disease course, treatment response, associated co-morbidities and overall survival across different autoimmune diseases.

Sex and Gender Differences in Infection and Treatments for Infectious Diseases - Sabra L. Klein 2023-09-11

This fully revised and significantly expanded second edition examines sex and gender differences in the immune system's response to bacterial, viral, and parasitic infections. The volume discusses both common and distinct molecular mechanisms that mediate these differences and illustrates how responses to vaccines may differ between the sexes and in pregnant individuals. Special emphasis is placed on the interplay between hormones and the immune system in the pathogenesis of HIV, SARS-CoV-2, influenza, malaria, tuberculosis, and amebiasis. This second edition includes

completely rewritten chapters as well as all new contents. This book is intended for researchers in academia and industry as well as clinicians in the fields of microbiology, immunology, and pharmacology. By expanding knowledge in sex and gender medicine as a basis for developing personalized treatment strategies, the book contributes to UN Sustainable Development Goals 3 (health and well-being) and 5 (gender equality).

Role of Sex Hormones in Human Body - Nassrin Malik Aubead 2020

Gonadal Steroids hormones play an important role in the reproductive and non-reproductive systems. Estrogen has important rule in cardiovascular system as it has vasodilator effect and reduces or prevents platelet activation. In addition, it improves the profile of circulating lipoproteins. All of which may explain why women at premenopausal age are less likely to have heart disease than menopause women or men. E2 play a grate effect on the skeletal

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system as it is one of the strongest regulators of osteoblast and osteoclast function, and it is responsible for the reduction of adipose tissue and regulation of the body weight, and also has dermatological effect, hence it stimulates the proliferation of keratinocytes and prevents their apoptosis, in addition to the progesterone which increases collagen synthesis. Estrogen is necessary for the functioning and integrity of the tissues of the urinary system specially of the lower urinary tract. Sex steroid are crucial for nervous system, as progesterone is important for production of neurosteroid, and estrogen is currently used in Parkinson, and Alzheimer, disease because of its effects on mental health. The androgens also have a crucial biological effects on neural, muscle, bone, adipose tissue, prostate, cardiovascular, haemopoietic, and the reproductive systems. The gonadal steroid hormones play an important role in immune system and regulating the immune response against different viral or bacterial

infections.

Sex Differences in Physiology - Gretchen Neigh 2016-05-10

Sex Differences in Physiology is an all-encompassing reference that details basic science research into sex differences in all physiological fields. It includes scientific discoveries concerning sex differences in cardiovascular, respiratory, renal, gastrointestinal, and musculoskeletal physiology. In addition, coverage of the development, endocrinology, neurophysiology, immunity, and metabolism is included, making this important reference a resource that will meet the needs of investigators interested in incorporating sex differences into their research programs, while also providing clinicians with the basis for providing the best sex-based medical treatment options available. Provides a sweeping, organ-by-organ review of currently observed sex differences in animal models and human disease Explains how sex differences influence

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physiology and disease Provides the critical knowledge on sex differences for better understanding of prevention and treatment of diseases

Gender, Sex Hormones and Systemic Lupus Erythematosus - Chi-Chiu Mok 2017-01-27

This dissertation, "Gender, Sex Hormones and Systemic Lupus Erythematosus" by Chi-chiu, Mok, 莫奇秋, was obtained from The University of Hong Kong (Pokfulam, Hong Kong) and is being sold pursuant to Creative Commons: Attribution 3.0 Hong Kong License. The content of this dissertation has not been altered in any way. We have altered the formatting in order to facilitate the ease of printing and reading of the dissertation. All rights not granted by the above license are retained by the author. Abstract: Abstract of the thesis entitled Gender, sex hormones and systemic lupus erythematosus submitted by Dr. Chi Chiu MOK for the degree of Doctor of Medicine at the University of Hong Kong in April, 2002 The pathogenesis of

systemic lupus erythematosus (SLE) is complex and multifactorial. Of the various proposed mechanisms, the hormonal theory is particularly attractive as the disease mainly occurs in women of the childbearing age and disease activity is influenced by both exogenous and endogenous gonadal and hypothalamo-pituitary hormones. The hypothalamo-pituitary-adrenal and hypothalamo-pituitary-gonadal axes interact intimately with each other, and with the immune system through their effects on cellular functions and cytokine production. Hormones do not directly cause SLE but a milieu consisting of different concentrations of gonadal and non-gonadal hormones alters the functions of the immune cells and predisposes individuals to the triggering effects of other genetic and environmental factors. In the series of studies and clinical observations reported in this thesis, it was demonstrated that endogenous estrogen levels exert an influence on the predisposition and clinical expression of SLE, and have a

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reciprocal relationship with disease activity. Exogenous estrogen administration in the form of natural estrogens as replacement therapy in hypoestrogenemic SLE patients appear to be well tolerated and is not associated with increase in disease flares. Hyperprolactinemia occurs in subsets of both male and female SLE patients but the significance remains to be elucidated. Men with SLE have abnormal sex hormone levels. The ratio of prolactin to testosterone levels correlates with disease activity scores. A substantial proportion of patients have a state functional hypoandrogenism, which may be intrinsic to or the effect of the disease. Finally, a gender difference in the clinical manifestations, damage and survival does exist but a longer period of observation and a larger patient cohort is needed to reach a definite conclusion. The overall results are consistent with the notion that the endogenous hormonal milieu consisting of different concentrations of hypothalamo-

pituitary and gonadal hormones interacting with each other, and with the central nervous and immune systems is important in the predisposition, clinical expression, and disease course of SLE, and may partially account for the gender differences in disease manifestations and prognosis. Keywords: Hormones, sex, gender, gonadal, lupus, disease activity, damage, prognosis DOI: 10.5353/th_b2978014 Subjects: Lupus erythematosus - Pathogenesis Hormones, Sex

Mucosal Vaccines - Hiroshi Kiyono 1996-10-23 This comprehensive, authoritative treatise covers all aspects of mucosal vaccines including their development, mechanisms of action, molecular/cellular aspects, and practical applications. The contributing authors and editors of this one-of-a-kind book are very well known in their respective fields. Mucosal Vaccines is organized in a unique format in which basic, clinical, and practical aspects of the mucosal immune system for vaccine

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development are described and discussed. This project is endorsed by the Society for Mucosal Immunology. Provides the latest views on mucosal vaccines Applies basic principles to the development of new vaccines Links basic, clinical, and practical aspects of mucosal vaccines to different infectious diseases Unique and user-friendly organization

Bilateral Communication Between the Endocrine and Immune Systems - Charles J. Grossman 2012-12-06

Bilateral Communication Between the Endocrine and Immune Systems, Volume 7 in the Springer-Verlag Endocrinology and Metabolism Series, offers the most current information and recent advances in the area of communication and regulation between the Immune and Endocrine Systems. Immune-Endocrine Interactions are reported to play pivotal roles in both activation and down-regulation of immune responses and this volume provides the most up-to-date research and findings on the immune-endocrine

relationship. The contributing authors are internationally recognized experts in this area and have written chapters on such diverse topics as Interactions between the Pituitary and Immune Systems, Effects of Estrogens and Androgens on Immune Response, The Role of Sex Steroids in Immune System Regulation, and Neuroendocrine and Thymus Interactions During Development and Aging. This volume is a must for all endocrinologists and endocrinology residents.

Pituitary Function and Immunity - Istvan Berczi 2019-06-04

First published in 1986, the influence of hormones secreted or regulated by the pituitary gland on the immune system is examined in detail, including discussions of adrenocorticotrophic hormone, glucocorticoids, catecholamines, growth hormone, insulin, prolactin, gonadotropins, sex steroid hormones, and thyroid hormones. The relative importance of various hormones in immunoregulation is

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considered, and evidence for interaction between the immune and neurohormonal systems is presented. The possible effects of hormonal immunomodulation in reproduction, infections and parasitic disease, autoimmunity, and cancer are examined. This comprehensive reference serves both basic and clinical researchers and practitioners in immunology, microbiology, endocrinology, reproduction biology, neurology, oncology, psychology, medicine, and veterinary medicine.

Inflammation, 4 Volume Set - Jean-Marc Cavaillon 2018-02-20

The leading reference on this topic of increasing medical relevance is unique in offering unparalleled coverage. The editors are among the most respected researchers in inflammation worldwide and here have put together a prestigious team of contributors. Starting with the molecular basis of inflammation, from cytokines via the innate immune system to the different kinds of inflammatory cells, they

continue with the function of inflammation in infectious disease before devoting a large section to the relationship between inflammation and chronic diseases. The book concludes with wound and tissue healing and options for therapeutic interventions. A must have for clinicians and biomedical researchers alike.

Immunoendocrinology: Scientific and Clinical Aspects - George S. Eisenbarth 2010-12-13

Immunoendocrinology is a rapidly developing field of research that seeks to understand the intersection of the immune and endocrine systems. Immunoendocrinology: Scientific and Clinical Aspects explores in detail the current knowledge of immunoendocrinology, namely endocrine disorders produced by disorders of immune function. Chapters cover both basic pathophysiology informed by studies of animal models as well as current understanding of multiple related clinical diseases—their pathophysiology, diagnosis, and therapy.

Immunoendocrinology: Scientific and Clinical

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Aspects captures the central role of immunoendocrinologic processes in the pathogenesis of not only type 1 diabetes but in a range of other autoimmune and endocrine disorders.

Sex Hormones and Gender Differences in Immune Responses - Elena Ortona 2019-07-31

Increasingly clear evidence points to the need to consider gender differences in human health. In this collection of papers, recent research that supports gender differences in the immune system are discussed. We have loosely divided the eBook into two sections. The first section focuses on the role of steroid hormone interactions within the immune system, and their impact on autoimmune diseases, infection and allergy. This section contains comprehensive reviews and an opinion article about this topic. In the following section, original research articles revolve around the effects of the sex hormones on immune response. Two original manuscripts deal with the role of estrogen

receptors in autoimmune diseases. Other two research articles discuss the role of the immune system during pregnancy. Finally, differences between males and females in infections are the topic of further two research articles. We are confident this collection of papers will be important for exploring and developing a greater understanding of gender differences in human health and disease.

Microbial Endocrinology - Mark Lyte
2010-04-06

Microbial endocrinology represents a newly emerging interdisciplinary field that is formed by the intersection of the fields of neurobiology and microbiology. This book will introduce a new perspective to the current understanding not only of the factors that mediate the ability of microbes to cause disease, but also to the mechanisms that maintain normal homeostasis. The discovery that microbes can directly respond to neuroendocrine hormones, as evidenced by increased growth and production

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of virulence-associated factors, provides for a new framework with which to investigate how microorganisms interface not only with vertebrates, but also with invertebrates and even plants. The reader will learn that the neuroendocrine hormones that one most commonly associates with mammals are actually found throughout the plant, insect and microbial communities to an extent that will undoubtedly surprise many, and most importantly, how interactions between microbes and neuroendocrine hormones can influence the pathophysiology of infectious disease.

Endocrine Immunology - W. Savino 2017-02-28

In the last decades, several in vitro and in vivo studies have revealed the existence of a very complex network between the neuroendocrine and immune system. Important molecular mechanisms underlying these interactions, in both physiological and pathological conditions, have also been described. Indeed, hormones play a pivotal role in the development and functional

regulation of the immune system - both innate and acquired responses. Immune system cells present specific hormone receptors and themselves produce some hormones, thus influencing hormone secretion. More recently, the modulation of hormone secretion has been attempted for treating associated autoimmune disorders, further supporting the strong interplay between the endocrine and immune system. Distinguished experts, who have published extensively in their fields, have contributed comprehensive chapters to this volume. The focus is on the various aspects of endocrine-neuro-immune connections, providing an updated panorama - from basics to clinical applications - of current knowledge and still debated issues.

Enkephalins and Endorphins - R.E. Faith
2013-06-29

Is this a time for a sleeping giant to rise? We have known since study of the lymphocyte and plasma cells really began in earnest in the early

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1940's that the pituitary adrenal axis under intimate control of the hypothalamus could influence immunological functions profoundly. We have also known for at least 20 years in my recollection that female sex hormones can maximize certain immunity functions while male sex hormones tend to suppress many immunological reactions. The thyroid hormones accelerate antibody production while at the same time speeding up degradation of antibodies and immunoglobulins and thyroidectomy decreases the rate of antibody production. Further, much evidence has accumulated indicating that the brain, yes even the mind, can influence in significant ways susceptibility to infections, cancers and to development of a variety of autoimmune diseases. More than 20 years ago, my colleagues and I convinced ourselves, if no one else, that hypnosis can exert major influences on the effector limb of the classical atopic allergic reactions. We showed with Aaron Papermaster

that the Prausnitz-Kustner reaction may be greatly inhibited, indeed largely controlled, by post-hypnotic suggestion. And it was not even necessary for us to publish our discovery because scientists in John Humphrey's laboratory at Mill Hill Research Center in London had beaten us to the punch. They described hypnotic control of both the PK reaction and delayed allergic reactions to tuberculin by hypnosis.

Hormones and Immunity - I. Berczi 1987-03-31

Sex Hormones and Immunity to Infection -

Sabra L. Klein 2009-10-22

Why sex matters Among human and nonhuman animals, the prevalence and intensity of infection typically is higher in males than females and may reflect differences in exposure as well as susceptibility to pathogens. Elevated immunity among females is a double-edged sword in which it is beneficial against infectious diseases but is detrimental in terms of increased

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development of autoimmune diseases. The present book critically reviews the evolutionary origin and the functional mechanisms responsible for sexual dimorphism in response to infection. It emphasizes the value of examining responses in both males and females to improve our understanding about host-pathogen interactions in both sexes. The contributors are experts in their specific disciplines which range from microbiology and immunology to genetics, pathology, and evolutionary biology. The book aims at bringing insight to the treatment and management of infectious diseases; it delineates areas where knowledge is lacking and highlights future avenues of research.

Immune Alterations in Male and Female Mice

After 2-Deoxy-D-Glucose Administration -

National Aeronautics and Space Adm Nasa

2018-10-21

Administration of 2-deoxy-D-glucose (2-DG), an analog of glucose which inhibits glycolysis by competitive antagonism for phosphohexose

isomerase, results in acute periods of intracellular glucoprivation and hyperglycemia resulting in hyperphagia. In addition to these changes in the carbohydrate metabolism, injection of 2-DG results in alterations of both the endocrine and neurological systems as suggested by modifications in oxytocin and glucocorticoid levels and norepinephrine production. Moreover, alterations of the immune response, such as a decrease in the in vitro proliferation of splenocytes after mitogen-stimulation, were observed in mice injected with 2-DG. Sex, genotype and environment are among the factors that may modulate effects of catecholamines and hypothalamo-pituitary-adrenal axis on these immune changes. Sexual dimorphism in immune function resulting from the effects of sex hormones on immune effector cells has been shown in both animals and humans. These observations have important implications, especially with regard to higher incidence of many autoimmune diseases in

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females. Evidence exists that reproductive hormones influence the immune system and increase the risk of immunologically related disorders in both animals and humans. Indeed, immunological responses in stressful situations may also be confounded by fluctuations of sex hormones especially in females. Lymphocyte distribution, cytokine production, and the ability of lymphocyte to proliferate in vitro were

analyzed in male and female mice to determine if sex influenced 2-DG immunomodulation. In addition, the influence of hormones, especially sex hormones, on these changes were evaluated. Dreau, Didier and Morton, Darla S. and Foster, Mareva and Swiggett, Jeanene P. and Sonnenfeld, Gerald Ames Research Center NAG2-933; NAG9-728...

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