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Bioresponse-Linked Instrumental Analysis - Bertold Hock 2001-01-12

Die wirkungsbezogene Analytik befasst sich mit der engen Kopplung von Biotests mit der chemischen Analytik. Hierbei werden die biomolekulare Erkennung, die im Organismus einen biologischen Effekt auslöst, und die chemische Analytik kombiniert. Dieses Buch behandelt Fortschritte in der analytischen Instrumentation von biologischen Makromolekülen, welche die gekoppelten Technologien ermöglicht haben, insbesondere die automatische Kopplung von Bindungstests mit der chemischen Analytik.

Hormones and the Heart in Health and Disease - Leonard Share 1999-06-01

The maintenance of arterial

blood pressure and the distribution of blood flow to the various organs of the body depends on the control of the pumping action of the heart and of the resistance of the vascular beds in the individual organs in accordance with their metabolic needs. These controls are achieved through the integrated actions of circulating hormones, humoral factors that are synthesized and released in the heart and blood vessels, and the autonomic nervous system. The heart, however, is not only the target for the direct and indirect actions of a number of hormones and humoral factors, it is also an endocrine organ in the traditional sense, synthesizing and secreting into the circulation chemical factors that act at distant sites. In this treatise, Hormones and the

Heart in Health and Disease, we interpret "endocrinology" broadly and consider traditional hormones as well as autocoids that are secreted by the heart or that act on it. In this overview, the relevant chapters are indicated in parentheses. The discovery of atrial natriuretic peptide (ANP; atrial natriuretic factor, ANF) in the 1980s indicated that the heart does indeed function as an endocrine organ in the classic sense. ANP (Chapter I) is synthesized in the heart and secreted into the circulation for actions on the kidney, where it is a potent natriuretic agent, and on the vasculature, where it causes vasodilation. ANP can also affect myocardial contractility.

Hormones, Cognition and Dementia - Eef Hogervorst
2009-09-24

A decade ago, oestrogen-containing hormone therapy was viewed as a promising strategy for the prevention and treatment of dementia and age-related cognitive decline. However, treatment trials in women with Alzheimer's

disease showed that oestrogens did not reverse cognitive impairment, and clinical trials in healthy older women indicated that oestrogens did not prevent cognitive decline. The Women's Health Initiative Memory Study trial even suggested an increased risk of dementia with treatment late in life. What happened? How are we to understand these findings? What are the implications for middle-aged and older women? What about testosterone, and what about men? And where do we go from here? This book brings together world-renowned experts in basic and clinical research on sex steroids, aging, and cognition to integrate existing findings with emerging new data, and offer challenging hypotheses on these key issues.

Clinical Gynecology - Eric J. Bieber
2015-04-23

Written with the busy practice in mind, this book delivers clinically focused, evidence-based gynecology guidance in a quick-reference format. It explores etiology, screening,

tests, diagnosis, and treatment for a full range of gynecologic health issues. The coverage includes the full range of gynecologic malignancies, reproductive endocrinology and infertility, infectious diseases, urogynecologic problems, gynecologic concerns in children and adolescents, and surgical interventions including minimally invasive surgical procedures. Information is easy to find and absorb owing to the extensive use of full-color diagrams, algorithms, and illustrations. The new edition has been expanded to include aspects of gynecology important in international and resource-poor settings.

Principles and Practice of Endocrinology and

Metabolism - Kenneth L. Becker 2001

Established as the foremost text in the field, *Principles and Practice of Endocrinology and Metabolism* is now in its thoroughly revised, updated Third Edition. This practical, clinically relevant, and comprehensive text covers the

entire field of endocrinology and metabolism, including the diffuse endocrine system; morphology and physiology; diagnosis and treatment of endocrine diseases; endocrinology of the female; hormones and cancer; and much more. The Third Edition contains new chapters reflecting the latest advances and features expanded coverage of genetics and the endocrinology of sepsis. More than 1,400 illustrations complement the text. A drug formulary appears at the back of the book.

Vitamins and Hormones - 2005-09-07

First published in 1943, *VITAMINS AND HORMONES* is the longest-running serial published by Academic Press. In the early days of the Serial, the subjects of vitamins and hormones were quite distinct. The Editorial Board now reflects expertise in the field of hormone action, vitamin action, X-ray crystal structure, physiology, and enzyme mechanisms. Under the capable and qualified editorial

leadership of Dr. Gerald Litwack, VITAMINS AND HORMONES continues to publish cutting-edge reviews of interest to endocrinologists, biochemists, nutritionists, pharmacologists, cell biologists, and molecular biologists. Others interested in the structure and function of biologically active molecules like hormones and vitamins will, as always, turn to this series for comprehensive reviews by leading contributors to this and related disciplines.

*Includes color illustrations

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*Contributions by leading international authorities

Effect of a Soy Dietary Supplement on Menopausal Symptoms and Hormones in Women at High Risk of Breast Cancer - 1999

The usefulness of a dietary soy supplement resulting in an intake of 45 mg/day of phytoestrogens, was tested in a randomized cross-over design in menopausal women aged 45-58 years of age who

reported a high level of menopausal hot flashes (>5/day). Women were on the soy or placebo bars for 3 months. A 22 and 26% reduction in the frequency of hot flashes was reported during both the soy and placebo supplemented phases of the study, respectively, compared to baseline, but no difference was observed in the reported number or intensity of the hot flashes when the soy and placebo phases were compared. Endogenous hormones, however, were altered with a significant decrease in serum estradiol ($p=0.003$) on the soy phase compared to baseline and compared to the placebo ($p=0.03$). Decreases in Sex-Hormone Binding Globulin were also seen ($P=0.0001$) compared to baseline and increases in Follicle-Stimulating Hormone and Leutinizing Hormone ($p=0.03$ for both). Levels of serum phytoestrogen achieved in the women while on the soy supplement were comparable and probably higher than levels

seen in the Asian population. A significant inverse association was observed between levels of estrone-sulfate and the number of hot flashes reported ($p=0.02$).

Cases in Chemical Pathology - R. N. Walmsley 1999

This book is the fourth edition of a highly regarded text which was first published in 1988. It introduces the reader to the interpretation of routine laboratory biochemical test results and covers all aspects of interpretative chemical pathology (including reproductive endocrinology, which was not covered previously). The approach is based on case material from the authors' laboratory and employs algorithms and similar aids for interpretation. The material is structured so that it is comprehensible to beginners as well as being useful for the more experienced practitioners. The envisaged audience is medical undergraduates, general practitioners, clinical biochemists and laboratory technicians.

Testosterone - Alexandre Hohl 2023

Even though research on testosterone is increasing, there is still much controversy regarding its physiology and clinical use. This book provides a broad overview on testosterone, from its basic features to the most recent evidence of clinical applicability. In addition, specific conditions in which testosterone play a pivotal role are discussed in detail, such as hypogonadism, misuse and abuse, puberty, cardiovascular effects and testosterone therapy. The testes are vital organs for reproduction of the human species, besides being the main source of testosterone production in men. Although not essential for survival, these singular structures represent the essence of male biological function. Testosterone is the most important testicular androgen in men. Low serum testosterone levels are associated with cardiovascular morbidity, metabolic syndrome, type 2 diabetes mellitus, atherosclerosis, osteoporosis,

sarcopenia, and mortality. Also, there is increasing evidence that serum testosterone is a major biomarker status of men's health in general.

Hypogonadism in a male refers to a decrease in one or both of the two major functions of the testes: sperm production or testosterone production. These abnormalities can result from disease of the testes (primary hypogonadism) or disease of the pituitary or hypothalamus (secondary hypogonadism). Currently, the clinical features of male hypogonadism are sufficiently well-recognized, the causes are well-known, and the tests of the hypothalamic-pituitary-testicular axis are accurate enough for the diagnosis in most patients. Testosterone, the focus hormone of this book, is used in different forms and routes of administration. Several authors unravel its peculiarities and assist in choosing the most suitable form in each case, as well as the possible risks of its misuse or even abuse in men and women, seeking alternatives to help patients in

this situation.

Steroid Binding to Sex Hormone-binding Globulin - Anie Philip 1986

Steroid-protein Interactions - Ulrich Westphal 1971

Hormones and Aging - Gerald Litwack 2021-03-09
Hormones and Aging, Volume 115 in the Vitamins and Hormones series, highlights advances in the field, with this new volume presenting timely topics, including hypothalamic aging and hormones, endocannabinoids and aging-inflammation, neuroplasticity, mood and pain, the impact of hormones and bone loss across the menopause transition, and much more. Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Vitamins and Hormones series Includes the latest information on Hormones and Aging

Androgens and the Aging Male - B.J. Oddens 1996-11-15

While menopause in women is

a well-established and well documented phenomenon, the andropause in men is a relatively new concept. The terms male menopause and andropause suggest that this is an abrupt phenomenon related to a sudden deprivation of sex hormones. Unlike the menopause, which has a relatively sudden onset, the andropause appears to be a gradual process. It has been hypothesized that an androgen deficiency might develop with aging. *Androgens and the Aging Male* explores this hypothesis. The book focuses on the gradually progressive problems related to the decline in androgens that can occur with advancement of age. It examines the debate about the extent to which an age-dependent decline in androgens leads to health problems that affect or impair the quality of life, and the theory behind it. In addition, it reviews studies evaluating the effects of androgen supplementation. *Androgens and the Aging Male* comprehensively covers

androgen function and how it changes over time.

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.

Male Hypogonadism - Stephen J. Winters 2003-12-12

Recent advances in cellular and molecular biology have markedly increased our understanding of normal and abnormal hypothalamic-pituitary-testicular function. Like other volumes in the Contemporary Endocrinology series, the goal of *Male Hypogonadism: Basic, Clinical, and Therapeutic Principles* is to link current

knowledge of basic biology to the practice of medicine. The development of new methods for testost- one replacement has substantially increased the number of men who are seeking to determine whether they are hypogonadal, and who are using testosterone replacement therapy, thus mandating a broader understanding of testosterone deficiency. The chapters of this book were contributed by authors from around the world, and from various scientific and clinical disciplines, who have devoted their careers to the study of the physiology and pathophysiology of the male. Thus, this comprehensive and focused volume is intended for a wide audience encompassing both basic scientists and practicing clinicians. Its scope will provide a wealth of information for students and fellows as well.

Advances in Research and Applications - Gerald Litwack
2000-01-27

Under the capable and qualified editorial leadership of Dr. Gerald Litwack, Vitamins

and Hormones continues to publish cutting-edge reviews of interest to endocrinologists, biochemists, nutritionists, pharmacologists, cell biologists, and molecular biologists. First published in 1943, Vitamins and Hormones is the longest-running serial published by Academic Press. In the early days of the Serial, the subjects of vitamins and hormones were quite distinct. Now, new discoveries have proved that several of the vitamins function as hormones and many of the substances inferred by the title of the serial function in signal transduction processes. Accordingly, the Editor-in-Chief has expanded the scope of the serial to reflect this newer understanding of function-structure relationships in cellular communication. The Editorial Board now reflects expertise in the field of hormone action, vitamin action, X-ray crystal structure, physiology, and enzyme mechanisms.

Dehydroepiandrosterone (DHEA) - Mohammed Y. Kalimi

2000

Hormones, Metabolism and the Benefits of Exercise -

Bruce Spiegelman 2018-03-07

The world is faced with an epidemic of metabolic diseases such as obesity and type 2 diabetes. This is due to changes in dietary habits and the decrease in physical activity. Exercise is usually part of the prescription, the first line of defense, to prevent or treat metabolic disorders. However, we are still learning how and why exercise provides metabolic benefits in human health. This open access volume focuses on the cellular and molecular pathways that link exercise, muscle biology, hormones and metabolism. This will include novel “myokines” that might act as new therapeutic agents in the future.

Androgens in Gynecological

Practice - Leo Plouffe, Jr

2015-06-25

A thought-provoking collection of state-of-the-art reviews on a broad range of women's conditions linked to androgen

excess or deprivation.

Human Sex Hormone-binding Globulin Modulates the Biological Activity of Its Ligands in Vitro and in Vivo [microform] - Heather Lynne Hodgert

Jury 2001

The regulation of sex steroid bioavailability at the target tissue level is a result of the interaction of these hormones with plasma proteins. In particular, the interaction of sex steroids with human sex hormone-binding globulin (SHBG), a protein with high affinity and low capacity for steroids, is important in determining the bioavailability of sex steroids at the tissue level. Previous studies have shown that certain nonsteroidal compounds interact with the SHBG steroid-binding site, and I have therefore developed a screening assay to identify natural and synthetic compounds that bind SHBG. This assay uses undiluted human serum and therefore has the advantage of identifying possible interactions with other serum

proteins by comparing results in this assay versus conventional assays, therefore providing insight into the factors that contribute to the bioavailability of endocrine active compounds within the body. A limited number of in vitro studies have shown that it is the non protein-bound steroid fraction that is biologically active, consistent with the free hormone hypothesis, but these studies cannot model tissue blood flow and transit time. Additionally, there is evidence that SHBG may have a direct influence on the actions of its ligands as a result of targeted delivery. Rodents are often used as in vivo models for estrogen action, however they lack SHBG in the blood as adults. I have therefore made use of transgenic mice that express human SHBG transgenes and have various levels of human SHBG in their blood to assess

the effects of SHBG on estrogen action by measuring uterine hypertrophy following administration of pharmacologically relevant estrogens, and by monitoring the incidence of chemically-induced mammary tumours that are known to be estrogen-dependent.

Immunohistochemical analysis of uteri harvested from these mice revealed an estrogen-dependent accumulation of SHBG in the endometrial stroma. The extracellular matrix protein fibulin-2, which is known to interact with SHBG in vitro was found to have a similar localization pattern in the mouse uterus following estrogen stimulation. These data indicate that fibulin-2 is involved in the extravascular sequestration of SHBG in the mouse uterus and that this interaction can be regulated in an SHBG ligand-dependent manner.

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