

Table 16.1 Pituitary Hormones: Summary of Regulation and Effects (continued)

HORMONE (CHEMICAL STRUCTURE AND CELL TYPE)	REGULATION OF RELEASE	TARGET ORGAN AND EFFECTS	EFFECTS OF HYPOSECRETION ↓ AND HYPERSECRETION ↑
Anterior Pituitary Hormones			
 Growth hormone (GH) (Protein, somatotrophic cells)	Stimulated by GHRH* release, which is triggered by low blood levels of GH as well as by a number of secondary triggers including hypoglycemia, increases in blood levels of amino acids, low levels of fatty acids, exercise, and other types of stressors Inhibited by feedback inhibition exerted by GH and IGFs, and by hyperglycemia, hyperlipidemia, obesity, and emotional deprivation via either increased GHIH* (somatostatin) or decreased GHRH* release	 Liver, muscle, bone, cartilage, and other tissues: anabolic hormone; stimulates somatic growth; mobilizes fats; spares glucose Growth-promoting effects mediated indirectly by IGFs	↓ Pituitary dwarfism in children ↑ Gigantism in children; acromegaly in adults
Thyroid-stimulating hormone (TSH) (Glycoprotein, thyrotrophic cells)	Stimulated by TRH* and in infants indirectly by cold temperature Inhibited by feedback inhibition exerted by thyroid hormones on anterior pituitary and hypothalamus and by GHIH*	 Thyroid gland: stimulates thyroid gland to release thyroid hormones	↓ Cretinism in children; myxedema in adults ↑ Hyperthyroidism; effects similar to those of Graves' disease, in which antibodies mimic TSH
Adrenocorticotrophic hormone (ACTH) (Peptide, corticotrophic cells)	Stimulated by CRH*; stimuli that increase CRH release include fever, hypoglycemia, and other stressors Inhibited by feedback inhibition exerted by glucocorticoids	 Adrenal cortex: promotes release of glucocorticoids and androgens (mineralocorticoids to a lesser extent)	↓ Rare ↑ Cushing's disease
Follicle-stimulating hormone (FSH) (Glycoprotein, gonadotrophic cells)	Stimulated by GnRH* Inhibited by feedback inhibition exerted by inhibin, and estrogen in females and testosterone in males	 Ovaries and testes: in females, stimulates ovarian follicle maturation and estrogen production; in males, stimulates sperm production	↓ Failure of sexual maturation ↑ No important effects
Luteinizing hormone (LH) (Glycoprotein, gonadotrophic cells)	Stimulated by GnRH* Inhibited by feedback inhibition exerted by estrogen and progesterone in females and testosterone in males	 Ovaries and testes: in females, triggers ovulation and stimulates ovarian production of estrogen and progesterone; in males, promotes testosterone production	As for FSH
Prolactin (PRL) (Protein, prolactin cells)	Stimulated by decreased PIH*; release enhanced by estrogens, birth control pills, breast-feeding, and dopamine-blocking drugs Inhibited by PIH* (dopamine)	 Breast secretory tissue: promotes lactation	↓ Poor milk production in nursing women ↑ Inappropriate milk production (galactorrhea); cessation of menses in females; impotence in males

*Indicates hypothalamic releasing and inhibiting hormones: GHRH = growth hormone-releasing hormone; GHIH = growth hormone-inhibiting hormone; TRH = thyrotropin-releasing hormone; CRH = corticotropin-releasing hormone; GnRH = gonadotropin-releasing hormone; PIH = prolactin-inhibiting hormone

Radioassay Systems In Clinical Endocrinology

Mark A. Sperling



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Radioassay Systems in Clinical Endocrinology Guy E. Abraham, 1981
Medicine (U.S.), 1982 First multi year cumulation covers six years 1965-70
Handbook of Research Methods in Cardiovascular Behavioral Medicine Neil Schneiderman, Stephen M. Weiss, Peter G. Kaufmann, 2013-11-21 Cardiovascular disease continues to be the number one medical problem in the United States. Behavioral medicine was developed and shaped into the one source of morbidity and mortality in our country following the definition of behavioral medicine as the interdisciplinary field of diseases particularly coronary heart disease concerned with the development and integration of behavioral and biomedical science knowledge and techniques. The Framingham study among others has identified the application of this knowledge and these techniques to prevention, diagnosis, treatment, and rehabilitation of three major risk factors implicated in the development of CHD: smoking, elevated serum cholesterol, and high blood pressure. This concept of biobehavioral collaboration has challenged scientists and clinicians of many disciplines to consider how they might more effectively address the problem. Given that these factors account for less than 50% of the variance associated with CHD, it has become obvious that additional diagnostic, treatment, and prevention strategies by merging their perspectives to address disease prevention and simultaneously among others behavioral psychology control must be identified if further progress is to be made in disease prevention and rehabilitation.
Steroid-Protein Interactions II Ulrich Westphal, 2012-12-06

Methods of Hormone Radioimmunoassay Bernard Jaffe, 2012-12-02 Methods of Hormone Radioimmunoassay Second Edition is a compilation of radioimmunoassay techniques for the quantification of hormones. Various kinds of hormones are considered namely intracellular messengers, hypothalamic and pineal hormones, pituitary hormones, thyroid and parathyroid hormones, renal hormones, hormones of the gastrointestinal tract, pancreatic hormones, steroid hormones, uterine and placental hormones, vasoactive peptide hormones, and growth factors. The corresponding method of radioimmunoassay for each hormone is described. This book is comprised of 49 chapters and begins with a discussion on the radioimmunoassay of cyclic adenosine 3',5'-monophosphate (cAMP) and cyclic guanosine 3',5'-monophosphate (cGMP) together with problems related to measuring both compounds. The reader is then introduced to prostaglandins and prostaglandin metabolites, thyrotropin-releasing hormone, and gonadotropin-releasing hormone. Pituitary gonadotropins, prolactin, and thyrotropin are also discussed. The remaining chapters deal with hormones of the gastrointestinal tract, pancreatic hormones, steroid hormones, and growth factors. This monograph is intended for both clinicians and investigators interested in methods of hormone radioimmunoassay.

Endocrine Disorders Richard A. Donald, 1984-03-22 Endocrine Disorders
Cytochemical Bioassays J. Chayen, Lucille Bitensky, 2013-10-22 Cytochemical Bioassays: Techniques and Clinical Applications describes the techniques and clinical applications of cytochemical bioassays particularly with respect to polypeptide hormones. This book discusses the

clinical and research implications of studies that use these techniques This text is comprised of 14 chapters the first of which introduces the reader to the origins and general principles of cytochemical bioassays along with their advantages This discussion is followed by a chapter that explains what is meant by an assay for what purpose assays are done the basic components of an assay method and the nature of the difference between in vivo and in vitro hormone bioassays in vitro ligand assays and enzyme assays Attention then turns to the techniques of cytochemical bioassays and the cytochemical bioassay procedures for adrenocorticotrophic hormones thyroid stimulating hormones the thyroid stimulating antibody of Graves disease thyroid growth stimulating and blocking immunoglobulins and luteinizing hormones The next chapters focus on the technique and clinical relevance of a cytochemical bioassay for gastrin like activity and for measurement of antidiuretic hormones parathyroid hormones angiotensin II natriuretic hormones and hypothalamic regulating hormones This book will be of interest to clinicians and practitioners of biology biochemistry and endocrinology

Biosociology of Dominance and Deference Allan Mazur, 2005-08-31 Biology perhaps the most exciting science of the last half century is reaching into scholarly disciplines throughout academia yet sociology has barely entertained it The reasons for hesitation are clear enough Sociobiology and ethology have been unappealing to sociologists because they explain human behavior the same way they explain the behavior of social insects fish and birds often evoking images of sexism and Social Darwinism both anathemas to modern sociologists Nonetheless sociologists do show growing interest in biology and what it can contribute to their discipline In this short engaging volume Allan Mazur develops new and sociologically sophisticated concepts to bring these fields together His book is about the social biology of face to face dominance interactions and it explores the evolution of behavior through connections among biology language culture and socialization Topics include comparative primate behavior physiological and brain mechanisms underlying status processes and the relevance of the body surface face physique gestures to status allocation The book is meant to be a self contained exploration sociologists would require no prior knowledge of biology biologists would require no prior knowledge of sociology and a fun informative supplement for courses throughout sociology and the social sciences

Clinical Endocrinology of Calcium Metabolism T. John Martin, Lawrence Gideon Raisz, 1987

Placental Function Tests T. Chard, A. Kloppner, 2013-04-17 Biochemical tests of fetal well being placental function tests have been part of routine obstetric practice for more than twenty years This book provides an overview of the current status of these tests the physiological basis for their use and their advantages and limitations in clinical practice Considerable attention is given to interpretation a subject which in the past has led to much confusion both in the scientific literature and in the minds of clinicians Recent advances are described in detail in particular the discovery of a whole new generation of placental products some of which offer great promise in the prediction of conditions such as placental abruption and premature labour which cannot be identified by any other current parameters Finally a set of clear recommendations is put forward for the choice of test in most of the common complications of both early

and late pregnancy The emphasis throughout is on how the basic biology of fetoplacental products dictates their use and interpretation in pathological conditions Research Awards Index ,1989 **Biomedical Index to PHS-supported Research** ,1995 *The Endocrine System in Sports and Exercise* William J. Kraemer,A. D. Rogol,2008-04-15 This valuable new addition to the Encyclopaedia of Sports Medicine series provides a comprehensive and logical look at the principles and mechanisms of endocrinology as related to sports and exercise It looks at growth hormone factors involved in exercise and the endocrinology of sport competition It considers various factors and stresses on the body that may alter sporting performance It covers topics from the acute responses and chronic adaptations of the human endocrine system to the muscular activity involved in conditioning exercise physical labor and sport activities This book is an essential reference for helping to plan better programs of physical fitness to prepare for sports competitions and to manage the medical care of athletes **Life Atomic** Angela N. H. Creager,2024-05-31 After World War II the US Atomic Energy Commission AEC began mass producing radioisotopes sending out nearly 64 000 shipments of radioactive materials to scientists and physicians by 1955 Even as the atomic bomb became the focus of Cold War anxiety radioisotopes represented the government s efforts to harness the power of the atom for peace advancing medicine domestic energy and foreign relations In *Life Atomic* Angela N H Creager tells the story of how these radioisotopes which were simultaneously scientific tools and political icons transformed biomedicine and ecology Government produced radioisotopes provided physicians with new tools for diagnosis and therapy specifically cancer therapy and enabled biologists to trace molecular transformations Yet the government s attempt to present radioisotopes as marvelous dividends of the atomic age was undercut in the 1950s by the fallout debates as scientists and citizens recognized the hazards of low level radiation Creager reveals that growing consciousness of the danger of radioactivity did not reduce the demand for radioisotopes at hospitals and laboratories but it did change their popular representation from a therapeutic agent to an environmental poison She then demonstrates how by the late twentieth century public fear of radioactivity overshadowed any appreciation of the positive consequences of the AEC s provision of radioisotopes for research and medicine *Pediatric Endocrinology* Mark A. Sperling,2014-04-10 In a single convenient volume *Pediatric Endocrinology* offers complete coverage of all aspects of basic science and clinical practice ideal for both pediatricians and endocrinologists Pediatric endocrinology expert Dr Mark Sperling teams up with world renowned authors to bring you up to date with the latest key developments in every area of the field providing invaluable guidance on how your clinical decision making will be affected by today s technological and scientific advances Consult this title on your favorite e reader conduct rapid searches and adjust font sizes for optimal readability Determine the best possible course for every patient with easy to follow algorithms in every clinical chapter Stay up to date with today s hottest topics including neonatal diabetes mellitus Type II childhood diabetes molecular endocrinology and genetics Explore the impact of today s advances and challenges including explosive growth in molecular biology sophisticated imaging techniques and an increase

in both pediatric diabetes and obesity Quickly access the information you need with a new streamlined organization Concepts Endocrine Disorders of the Newborn Endocrine Disorders of Childhood and Adolescence and Laboratory Tests and Imaging

Cumulated Index Medicus, 1972 Radioimmunoassay in Basic and Clinical Pharmacology Carlo Patrono, Bernhard A. Peskar, 2012-12-06 Thirty years have elapsed since the first description by S A BERTSON and R S YALOW of the basic principles of radioimmunoassay RIA During this period of time RIA methodology has been instrumental to the growth of many areas of biomedical research including endocrinology oncology hematology and pharmacology It has done so by providing a relatively simple universal tool allowing for the first time the detection of endogenous mediators that are present in body fluids at concentrations as low as 10^{-10} M The fundamental nature of this discovery and the wide ranging fall out of basic and clinical knowledge derived from its application have been acknowledged by the many honors tributed to its pioneers including the Nobel Prize awarded to Dr YALOW 10 years ago Although several excellent books have been published during the past decades covering various aspects of RIA methodology we felt the need as pharmacologists for a comprehensive discussion of the methodological and conceptual issues related to the main classes of mediators of drug action and to drugs themselves Thus we gladly accepted the challenge provided by the invitation to edit a volume of the Handbook of Experimental Pharmacology on Radioimmunoassay in Basic and Clinical Pharmacology We tried to balance the emphasis placed on more general aspects of the RIA methodology and that on specific mediators **Radioimmunoassay of Steroid Hormones** Derek Gupta, 1980 The Black Male in White America Jacob U. Gordon, 2004 This book explores twelve related research topics each constituting a chapter These chapters reflect the magnitude of the problems facing the African American male The book also documents the success stories of African American men and how they have lived beyond stereotypes and other odds These issues are not likely to go away in the 21st century They require government action and individual initiative toward a civil society in which America's promise can be a reality for all Americans thus making sure that no single American will be left behind Contents Preface African American Males in Kindergarten African American Males in Higher Education African American Fatherhood Theatre and the Re Creation of the Black Experience Contributions of African American Males to the Sciences and Medicine The African American Male in American Journalism African American Males and the Economics of Poverty The Black Male in the Clinton Administration Transitioning African American Men From the Prison Back to the Community African American MSM The Black Male and Recent U S Policy Toward Africa Foreign Born Black Males The Invisible Voices Towa *Clinical Biochemistry V2* Herbert Spiegel, 2012-12-02 Clinical Biochemistry Contemporary Theories and Techniques Volume 2 is a collection of papers that deals with coagulation chemistry inborn errors of metabolism IEM and the biochemistry of aging One paper explains the biochemistry and clinical importance of lipoprotein X LP X as a marker for obstructive jaundice and also as a pointer in the deficiency of lecithin cholesterol acyltransferase LCAT a rare inborn error of metabolism Another paper presents guidelines in determining radioimmunoassay

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