

Endocrinology Hadley Free

Handbook of Clinical Adult Genetics and Genomics: A Practice-Based Approach provides a thorough overview of genetic disorders that are commonly encountered in adult populations and supports the full translation of adult genetic and genomic modalities into clinical practice. Expert chapter authors supplement foundational knowledge with case-based strategies for the evaluation and management of genetic disorders in each organ system and specialty area. Topics discussed include employing genetic testing technologies, reporting test results, genetic counseling for adult patients, medical genetics referrals, issues of complex inheritance, gene therapy, and diagnostic and treatment criteria for developmental, cardiovascular, gastrointestinal, neuropsychiatric, pulmonary issues, and much more. Employs clinical case studies to demonstrate how to evaluate, diagnosis and treat adult patients with genetic disorders Offers a practical framework for establishing an adult genetics clinic, addressing infrastructure, billing, counseling, and challenges unique to adult clinical genetics Features chapter contributions from authors at leading adult genetics institutions in the US and abroad A groundbreaking look at marriage, one of the most basic and universal of all human institutions, which reveals the emotional, physical, economic, and sexual benefits that marriage brings to individuals and society as a whole. The Case for Marriage is a critically important intervention in the national debate about the future of family. Based on the authoritative research of family sociologist Linda J. Waite, journalist Maggie Gallagher, and a number of other scholars, this book's findings dramatically contradict the anti-marriage myths that have become the common sense of most Americans. Today a broad consensus holds that marriage

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is a bad deal for women, that divorce is better for children when parents are unhappy, and that marriage is essentially a private choice, not a public institution. Waite and Gallagher flatly contradict these assumptions, arguing instead that by a broad range of indices, marriage is actually better for you than being single or divorced— physically, materially, and spiritually. They contend that married people live longer, have better health, earn more money, accumulate more wealth, feel more fulfillment in their lives, enjoy more satisfying sexual relationships, and have happier and more successful children than those who remain single, cohabit, or get divorced. The Case for Marriage combines clearheaded analysis, penetrating cultural criticism, and practical advice for strengthening the institution of marriage, and provides clear, essential guidelines for reestablishing marriage as the foundation for a healthy and happy society. “A compelling defense of a sacred union. The Case for Marriage is well written and well argued, empirically rigorous and learned, practical and commonsensical.” -- William J. Bennett, author of The Book of Virtues “Makes the absolutely critical point that marriage has been misrepresented and misunderstood.” -- The Wall Street Journal www.broadwaybooks.com

This is an admirably concise and clear guide to fundamental concepts in physiology relevant to clinical practice. It covers all the body systems in an accessible style of presentation. Bulleted checklists and boxed information provide an easy overview and summary of the essentials. By concentrating on the core knowledge of physiology, it will serve as a useful revision aid for all doctors striving to achieve postgraduate qualification, and for anyone needing to refresh their knowledge base in the key elements of clinical physiology. The author's own experience as an examiner at all levels has been distilled here for the benefit of postgraduate trainees and medical and nursing students.

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This book comes to its second edition intending to broaden the discussion about the plastic surgical techniques for the reconstruction of the ear. It features a more in-depth discussion of the topics previously addressed, including chapters on microtia, anotia, the upper pole, auricular lobule and complications during and following ear surgery. Furthermore, it addresses a wide variety of deformities of the auricle and surgical topics that were not included in the previous edition, such as: Reconstruction of the tragus and creation of the external auditory canal - key considerations when planning or performing a reconstruction of the ear. New concepts on the surgical anatomy of the ear - essential knowledge for plastic surgeons when performing the operation. Traumatic amputation of the ear - a common and severe social and organic problem. Discussions are presented that address the cause of the problem, as well as guidelines for surgeons during first aid in order to provide adequate reconstruction. Ear reconstruction for reparation of deformities caused by piercing Reconstruction of the auricle secondarily to prominent ear surgery Reconstruction of the ear after human and animal bite Secondary reconstruction of the ear Reduction otoplasty - an important procedure whenever the size of the ear negatively impacts the patient's wellbeing or self-esteem due to imbalanced facial contours. Features important notes on a procedure that leaves inconspicuous scars and creates a normal and natural appearance of the organ's architecture. Post-operative care - special information on how to optimally avoid complications after surgery. Reconstruction of the ear is required in a variety of patients, especially in those with congenital anomalies and associated deformities or those suffering from accidents and trauma affecting the auricle. In this sense, this surgical approach has the ultimate goal of improving aesthetic and functional aspects of congenital and acquired anomalies of the ear. Throughout the book, the goal is to

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share the author's experience, gathered in the course of 43 years dedicated to this challenging field. Descriptions and illustrative photos concerning correction and reconstruction of the auricle caused by prominent ear surgery are presented in detail. The didactic approach, supplemented by color illustrations and surgical photos, helps to demonstrate basic and advanced techniques alike. With forewords by Ivo Pitanguy and Jorge Psillakis.

Data is fundamental to the modern world. From economic development, to healthcare, to education and public policy, we rely on numbers to allocate resources and make crucial decisions. But because so much data fails to take into account gender, because it treats men as the default and women as atypical, bias and discrimination are baked into our systems. And women pay tremendous costs for this bias, in time, money, and often with their lives. Celebrated feminist advocate Caroline Criado Perez investigates shocking root cause of gender inequality and research in *Invisible Women*†, diving into women's lives at home, the workplace, the public square, the doctor's office, and more. Built on hundreds of studies in the US, the UK, and around the world, and written with energy, wit, and sparkling intelligence, this is a groundbreaking, unforgettable exposé that will change the way you look at the world.

This book on pediatric endocrinology covers interesting and yet often challenging cases among pediatric patients in a unique Question-Answer format. Simulating the bed-side case discussions during the ward rounds, one question logically leads to another, thereby generating curiosity and promoting evidence-based medicine. Taking the readers through the entire spectrum starting from etiology and pathophysiology to clinical presentation to management principles, each question addresses one key aspect of the disorder. Described in a very simple and lucid narrative, this book ensures sound conceptual understanding while

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covering each topic comprehensively. This volume covers important topics such as short stature, pubertal disorders, thyroid disorders, childhood Cushing syndrome, rickets and osteomalacia, disorder of sexual differentiation and diabetes in the young. Less common disorder such as multiple endocrine neoplasia has also been incorporated. These cases are not only seen by endocrinologists, but are also managed by paediatricians, internists, obstetricians and gynaecologists, orthopaedicians and surgeons.

This book covers a broad range of topics about the cricket from its development, regeneration, physiology, nervous system, and behavior with remarkable recent updates by adapting the new, sophisticated molecular techniques including RNAi and other genome editing methods. It also provides detailed protocols on an array of topics and for basic experiments on the cricket. While the cricket has been one of the best models for neuroethological studies over the past 60 years, it has now become the most important system for studying basal hemimetabolous insects. The studies of *Gryllus* and related species of cricket will yield insight into evolutionary features that are not evident in other insect model systems, which mainly focus on holometabolous insects such as *Drosophila*, *Tribolium*, and *Bombyx*. Research on crickets and grasshoppers will be important for the development of pest-control strategies, given that some of the most notorious pests also belong to the order Orthoptera. At the same time, crickets possess an enormously high “food conversion efficiency”, making them a potentially important food source for an ever-expanding human population. This volume provides a comprehensive source of information as well as potential new applications in pest management and food production of the cricket. It will inspire scientists in various disciplines to use the cricket model system to investigate interesting and innovative questions.

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o history of endocrinology can be written without reference N to Sir Humphry Davy Rolleston, whose monumental study of the subject appeared in 1936 under the modest subtitle: *The Endocrine Organs in Health and Disease with an Historical Review*. It was based on the author's Fitzpatrick Lectures at the Royal College of Physicians of London in 1933 and 1934. The lectureship, which dates from 1901, is devoted to the History of Medicine. Rolleston's work as regards scholarship and delivery cannot be surpassed and will remain the solid basis for any further study. It is of interest to note that Rolleston gave the Fitzpatrick Lectures when he was 71 years of age and had his book published when he was 74. By that time he had achieved most of his professional aims and all the honours a distinguished medical career can offer (see Section II). He perceived clearly that endocrinology was "an enormous subject in a most active stage of growth", which "recently has received most valuable help from organic chemists, who have devoted much time to the elucidation of the structure, isolation and synthesis of the hormones". He remarked that the knowledge of endocrinology was expanding with extreme rapidity, and it has been suggested that in this respect it would appear to be itself influenced by a growth hormone. He continued: "Before 1890 there were comparatively few publications dealing with the ductless glands, but in 1913, A. This title includes a number of Open Access chapters. Food security and child malnutrition are at the forefront of our attention, both nationally and internationally. The chapters contained in this compendium include a range of methodologies—literature

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review, cross-sectional study, longitudinal study, case-control, and even a focus group!—all of which examine this urgent issue, revealing new perspectives and facets of information. The international roster of contributors present a nuanced look at food security and child malnutrition with research into food security measures in many nations around the world. The Children's HealthWatch has been a leader in the work being done in this area, and some of their work is included here. The book is broken into several parts, covering defining food security food security, nutrition, and growth and development food security and mental and physical health food security and child obesity conclusion, with an information study from The Children's Healthwatch on household hardships, public programs, and their associations with the health and development of very young children The range of topics and information presented here will be valuable for those involved with food security advocacy, policymakers, researchers, social service professionals working children and families, and others. The announcement that we had decoded the human genome in 2000 ushered in a new and unique era in biomedical research and clinical medicine. This Third Edition of Principles of Gender-Specific Medicine focuses, as in the past two editions, on the essentials of sexual dimorphism in human physiology and pathophysiology, but emphasizes the latest information about molecular biology and genomic science in a variety of disciplines. Thus, this edition is a departure from the previous two; the editor solicited individual manuscripts from innovative scientists in a variety of fields rather

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than the traditional arrangement of sections devoted to the various subspecialties of medicine edited by section chiefs. Wherever it was available, these authors incorporated the latest information about the impact of the genome and the elements that modify its expression on human physiology and illness. All chapters progress translationally from basic science to the clinical applications of gender-specific therapy and suggest the most important topics for future investigation. This book is essential reading for all biomedical investigators and medical educators involved in gender-specific medicine. It will also be useful for primary care practitioners who need information about the importance of sex and gender in the prevention, diagnosis and treatment of illness. Outlines sex-specific differences in normal human function and explains the impact of age, hormones, and environment on the incidence and outcome of illness Reflects the latest information about the molecular basis of the sexual dimorphism in human physiology and the experience of disease Reviews the implications of our ever-improving ability to describe the genetic basis of vulnerability to disease and our capacity to alter the genome itself Illustrates the importance of new NIH guidelines that urge the inclusion of sex as a variable in research protocols This textbook explains the role of hormones in improving and monitoring the production, performance, reproduction, behaviour and health of animals. With its focus on livestock animals: cattle, pigs, sheep and horses as well as poultry and fish; the book uses an integrative approach to cover endocrine concepts across species. This updated edition

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is expanded to include new topics in each section, with updated references, revised study questions and an expanded subject index. It is an essential text for students in animal and veterinary sciences as well as those in academia and industry that are interested in applications of endocrinology in animal production systems. Praise for the first edition: 'a useful text for teaching purposes and an important reference for those who seek ready access to information on specific aspects of applied endocrinology.' Poultry Science

From 11 to 15 July 1977 about 60 physiologists, endocrinologists, ecologists and other biologists from 14 countries convened at the University Montpellier for a symposium on Environmental Endocrinology. This meeting was organized as a Satellite Symposium of the 27th International Congress of Physiological Sciences, Paris, 18-23 July 1977. This volume is a record of the communications presented at the symposium. The objectives of the program were to examine the role of the endocrine system in a wide spectrum of adjustments and adaptations to changes in environmental conditions by various species of animals, including man, and to promote an exchange of ideas among investigators who have approached these functions from diverse aspects. The diversity of the information and ideas communicated is great. Of necessity, they represent only an extremely modest selection of the many facets of endocrine function in the interaction of animals with their environments. Beyond the usefulness of the communications individually, we hope that they collectively demonstrate the substantial

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heuristic value of the concept of environmental endocrinology as it was perceived by the participants. We acknowledge gratefully the kindness and sympathy of Professor Jaques ROUZAUD, President of the University of Montpellier II, for his generous extension of the hospitality of the University to the Symposium. We are most grateful to Mrs. Monique VIEU who effected so well the secretarial organization of the Sympos. Revised by the American Medical Association (AMA), Graduate Medical Education Directory, 2012-2013 (Green Book) contains comprehensive information on 9,000 Accreditation Council for Graduate Medical Education-accredited programs (GME) in the United States, including Residency, Fellowship, and Combined programs, plus residency application and career-planning resources. Revisions and updates: specialty/subspecialty information, Match data, 215 new programs, and 3,000 teaching institutions.

Aimed at graduate level courses, this textbook provides students with a solid background in the basics of molecular endocrinology. *Molecular Endocrinology, Second Edition*, summarizes the area and provides an in-depth discussion of the molecular aspects of hormone action, including hormone-receptor interactions, second messenger generation, gene induction, and post-transcriptional control. Thoroughly revised and updated, the Second Edition includes new information on growth factors, hematopoietic-immune factors, nonclassical hormones, receptors, transduction, transcriptional regulation, as well as other relevant topics. Incorporating an abundance

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of new information, this text retains the self-contained, focused, and easily readable style of the First Edition. Professionals in related fields will also find this book to be a helpful summary and general reference source.

This book focuses on hormones, and on how they are produced in very diverse regions of the body in humans and animals. But hormones can be found not only in vertebrates, but also in insects, shellfish, spiders, mollusks, even at the origin of metazoan diversification and exhibit the same pathways of synthesis. The book addresses the different classes of hormones: protein/peptides hormones, steroids and juvenile hormones and hormones like catecholamines, thyroid hormones and melatonin. It also discusses the types of hormone receptors, the majority of which are heptahelical G-protein coupled receptors or nuclear receptors. Particular attention is paid to the organs where hormones are created, with specifics on hormonal production and release, while a dedicated chapter details hormonal regulation from very simple to highly complex schemes. The remarkable kinetics of hormones production are also shown, before the book is rounded out by chapters on evolution in the endocrine system, the genetics of endocrine diseases and doping.

This book provides a comprehensive overview of endocrinology of the male reproductive system, explaining how it works and how, sometimes, it fails to

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work. World-class specialists present state of the art knowledge on all aspects, including anatomy, physiology, molecular biology, genetics, pathophysiology, clinical manifestations of testicular diseases, endocrine aspects of andrological and sexual diseases, and therapy. Extensive consideration is given to sexual development, testicular function, the clinical approach to disorders of male reproduction, male hypogonadism, sexual dysfunction, and male infertility. In addition, sociodemographic, psychological, and ethical aspects of male reproductive disorders are discussed. The book is intended as a major reference for endocrinologists, andrologists, and sexologists, as well as basic and clinical scientists. It is published as part of the SpringerReference program, which delivers access to living editions constantly updated through a dynamic peer-review publishing process.

This book provides learners with a unique opportunity by virtue of the format outlined above. Each case presentation has a case vignette, which leads up to an important clinical question, and is followed by additional discussion which resolves the question posed. This is a new way to present knowledge in a medical book and should help critical care practitioners, fellows, residents, allied health professionals and students expand their critical care knowledge in an efficient and effective manner. This approach should also benefit those preparing

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for board examinations.

Clinical endocrinology is a fascinating field requiring the challenging combination of broad pathophysiological interest and specific expertise in the field of endocrinology, thereby occupying a common ground between biochemistry, physiology and clinical medicine. In the majority of cases the clinician's notion of the presence of an endocrine disease is largely based upon pattern recognition, in which physical changes play an important role. Therefore many color illustrations have been included throughout the text. In addition there are many full color graphs and illustrations of diagnostic imaging and pathology. With over 350 illustrations the book represents a richly illustrated text on the diseases of endocrine glands. For each gland there is an introductory section on the relevant morphology and physiology, followed by descriptions of the disorders of the gland. When endocrine diseases are quite different in dogs and cats, separate descriptions are given for these species. Protocols for function tests and emergency treatments are presented in the last chapters. Consequently the book provides the user with both comprehensive descriptions and quick references. The book has been written by leading clinicians in the field, with contributions from two biochemists, a radiologist and pathologist. As such a valuable textbook for veterinary students and practitioners has been compiled to fulfil the need for

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an up-to-date and complete book on endocrine diseases of dogs and cats. This brand new title in the Lecture Notes series covers a core element of the medical school curriculum. It presents the basic science needed to understand mechanisms of disease and describes the clinical presentations of the disorders associated with different glands, concluding with the relevant investigations and management. Focusing on conditions commonly encountered on the wards and in exams, with key points to aid revision and recall, this new title is perfect as a course companion and is the ideal revision tool for medical students, specialist nurses, and doctors working on endocrinology rotations. Lecture Notes: Endocrinology and Diabetes is also essential for endocrinology trainees approaching the new Knowledge Based Assessment (KBA).

Now in its Fourth Edition, this Spiral® Manual presents clinical information and protocols in outline format for evaluation and treatment of most endocrine disorders in children, adolescents, and adults. This thoroughly updated edition includes an introduction to risk assessment and screening and results of recent clinical trials and their implications for treatment and prevention. Also included are summaries of recent guidelines from the Endocrine Society and the American Academy of Clinical Endocrinology for prevention and management of many

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endocrine disorders including diabetes, growth hormone deficiency, dysmetabolic syndrome, dyslipidemia, and obesity. New chapters focus on comorbidities of Type II diabetes mellitus in children and use of growth hormone in adults.

This book will provide readers with a practice-based approach to all aspects of clinical nephrology. Written by experts in the field, Practical Nephrology offers invaluable practical advice on how to manage specific illnesses and, uniquely, the importance of establishing systems and processes to improve patient safety, enhance the patient pathway and guidance on how to systematically improve clinical governance. A unique aspect of this book are the tips and tricks and, suggestions for avoiding common errors based on the vast experience of the authors. In addition, the Editor has collated a list of links to international registries and guidelines as well as selected disease specific organisations, providing both clinicians and patients with access to helpful and recommended resources.

Designed and written in a user-friendly fashion, Practical Nephrology will be the definitive reference for practising nephrologists, trainees and non-nephrologist who encounter renal patients in their daily practice.

Endocrinology Prentice Hall

This revision of the classic textbook in endocrinology will offer all of the advantages found in earlier editions of Hadley's "Endocrinology," including clear

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explanations, interesting applications, and in-depth coverage of vertebrate hormones. In addition, chapters are now presented in a lecture-friendly format, with headers summarizing each of the major concepts. As in earlier editions, basic principles of molecular, cellular, and integrative endocrinology are presented early, along with an updated guide to current research and methodologies. Following chapters contain discussions of each of the major endocrine systems, supplemented with the most important and interesting new information. Neuroendocrine and reproductive systems are the specialty of the new co-author of this edition, and corresponding chapters have been appropriately increased in coverage. Special features of this new edition include... 1. Expanded explanations of basic concepts 2. Updated information on research methodologies 3. Latest research findings added to chapters on each endocrine system 4. Additional diagrams and figures 5. Printed with second color scheme. 6. New "Think, Analyze, and Discuss" review questions For health professionals, veterinarians, pharmacologists, and anyone in a field where endocrinology is the focus.

In the 23 years since this book was first published, numerous books along the same lines have appeared. Techniques vary minimally, and very few discoveries or developments have been made in the field of using hypnosis in therapy. The

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research that has appeared largely confirms what has been known for a very long time, such as its efficacy as an adjunct to chemical analgesia and anesthesia for intrusive and painful surgical procedures. However, during that period, a tremendous and astonishing amount of research has appeared in the fields of neurology (especially brain function), endocrinology, and immunology, as well as their interaction and integration with psychological processes. While hypnotic techniques have been much the same over the years, the underlying and mediating roles of these physical mechanisms in hypnosis are now substantially revealed. Understanding how hypnotic suggestions produce physical effects, and how these physical processes affect what is to be done in hypnosis will illuminate and guide what is attempted in hypnotherapy. The more the therapist bears these mechanisms in mind, the more effective and focused the work will be. This second edition therefore includes a summary account of the most cogent discoveries of the last two decades, and references to some of the most important knowledge acquired in this period in psycho-neuro-endocrino-immunology.

The European Workshops on Molecular and Cellular Endocrinology of the Testis have become by now a well-established tradition. Thanks to their special format, the quality of the main lectures and miniposters, and the vivid discussions, they

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enjoy the ever-increasing interest and active participation of all European scientists working in the field. Moreover, since the very beginning they have attracted investigators from all over the world. The most recent "Testis Workshop" was held in De Panne, Belgium, from 27-31 March, 1994. As always, the frame work of the workshop was provided by a series of lectures delivered by a panel of internationally recognized authorities. These lectures are gathered in the present volume of the Ernst Schering Foundation Workshop series. Together with the Miniposter book they constitute an excellent written account of the Proceedings of the 8th European Testis Workshop. The testis undoubtedly represents one of the most complex and intriguing tissues in the body. Both its endocrine function, the secretion of male sex hormones, and its exocrine role, the production of mature spermatozoa, continue to raise startling questions to clinicians, physiologists, endocrinologists, and scientists involved in fundamental research. Few organs maintain and support a differentiation process as complicated as spermatogenesis; few tissues continually display both mitotic and meiotic cell cycles in such a stringently controlled fashion or a comparable need for coordinated endocrine and local control.

"Jon Macks is one of the greatest comedy writers of all time."--Chris Rock A hilarious, revealing look behind the history and culture of American late-night TV,

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by a longtime comedy writer for The Tonight Show with Jay Leno. Ever since Johnny Carson first popularized the late-night talk show in 1962 with The Tonight Show, the eleven p.m. to two a.m. comedy time slot on network television has remained an indelible part of our national culture. More than six popular late-night shows air every night of the week, and with recent major shake-ups in the industry, late-night television has never been more relevant to our public consciousness than it is today. Jon Macks, a veteran writer for The Tonight Show with Jay Leno, takes us behind the scenes of this world for an in-depth, colorful look at what really makes these hosts the arbiters of public opinion. From the opening monologue--what's funny, what's dangerous, what's untouchable--to the best vs. worst guests, Macks covers the landscape of late-night comedy and punctuates the narrative with hysterical personal anecdotes, shining the spotlight on some of the very best late night jokes, and drawing from more than half a million of his own jokes written over the span of twenty years. With an insider's expertise and a laugh-out-loud voice, Macks explains how late-night TV redefines the news and events of any given day, reshapes public opinion, and even creates our national zeitgeist.

Endocrinology – as only HARRISON'S can cover it Featuring a superb compilation of chapters on endocrinology that appear in Harrison's Principles of

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Internal Medicine, Eighteenth Edition, this concise, full-color clinical companion delivers the latest knowledge in the field backed by the scientific rigor and authority that have defined Harrison's. You will find content from renowned editors and contributors in a carry-anywhere presentation that is ideal for the classroom, clinic, ward, or exam/certification preparation. Features An organization that reflects the physiologic roots of endocrinology: Pituitary, Thyroid, and Adrenal Disorders; Reproductive Endocrinology; Diabetes Mellitus, Obesity, Lipoprotein Metabolism; Disorders Affecting Multiple Endocrine Systems; and Disorders of Bone and Calcium Metabolism An important introduction that uses numerous examples of translational research to link genetics, cell biology, and physiology with pathophysiology and treatment Integration of pathophysiology with clinical management 108 high-yield questions and answers drawn from Harrison's Principles of Internal Medicine Self-Assessment and Board Review, 18e Updates and new developments since the publication of Harrison's Principles of Internal Medicine, 18e 29 chapters written by physicians who are recognized experts in the field of endocrinology Helpful appendix of laboratory values of clinical importance

Dr. Jörg Mayer has assembled an expert panel of authors on the topic of nutrition in exotic animals. Articles include: Prescription diets for exotic pets, Supplements

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for exotic pets, Nutrition for reptiles, Nutrition for avians, Nutrition for amphibians, Nutrition for fish, Nutrition for marsupials, Nutrition for rodents, and Nutrition for Rabbits.

This book is an introductory text in neuroendocrinology for undergraduate students.

One of the first comprehensive references dealing specifically with this new field of interdisciplinary research in medicine, *Immunoendocrinology in Health and Disease* offers a full scientific picture of where the immune and neuroendocrine systems intersect—placing current understanding of system components, mechanisms, and functions side by side with

"Many people say that it is the intellect which makes a great scientist. They are wrong: it is character." -- Albert Einstein

Integrity in Scientific Research attempts to define and describe those elements that encourage individuals involved with scientific research to act with integrity. Recognizing the inconsistency of human behavior, it stresses the important role that research institutions play in providing an integrity--rich environment, citing the need for institutions to provide staff with training and education, policies and procedures, and tools and support systems. It identifies practices that characterize integrity in such areas as peer review and research on human subjects and weighs the strengths and limitations of

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self--evaluation efforts by these institutions. In addition, it details an approach to promoting integrity during the education of researchers, including how to develop an effective curriculum. Providing a framework for research and educational institutions, this important book will be essential for anyone concerned about ethics in the scientific community.

Handbook of Cell Signaling, Three-Volume Set, 2e, is a comprehensive work covering all aspects of intracellular signal processing, including extra/intracellular membrane receptors, signal transduction, gene expression/translation, and cellular/organotypic signal responses. The second edition is an up-to-date, expanded reference with each section edited by a recognized expert in the field. Tabular and well illustrated, the Handbook will serve as an in-depth reference for this complex and evolving field. Handbook of Cell Signaling, 2/e will appeal to a broad, cross-disciplinary audience interested in the structure, biochemistry, molecular biology and pathology of cellular effectors. Contains over 350 chapters of comprehensive coverage on cell signaling Includes discussion on topics from ligand/receptor interactions to organ/organism responses Provides user-friendly, well-illustrated, reputable content by experts in the field

A real-world how-to manual for talking about race in the classroom Educators and activists frequently call for the need to address the lingering presence of

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racism in higher education. Yet few books offer specific suggestions and advice on how to introduce race to students who believe we live in a post-racial world where racism is no longer a real issue. In *Teaching Race* the authors offer practical tools and techniques for teaching and discussing racial issues at predominately White institutions of higher education. As current events highlight the dynamics surrounding race and racism on campus and the world beyond, this book provides teachers with essential training to facilitate productive discussion and raise racial awareness in the classroom. A variety of teaching and learning experts provide insights, tips, and guidance on running classroom discussions on race. They present effective approaches and activities to bring reluctant students into a consideration of race and explore how White teachers can model racial awareness, thereby inviting students into the process of examining their own white identity. Racism, whether evident in overt displays or subconscious bias, has repercussions that reverberate far beyond the campus grounds. As the cultural climate increasingly calls out for more research, education, and dialogue on race and racism, this book helps teachers spotlight issues related to race in a way that leads to effective classroom and campus conversation. The book provides guidance on how to: Create the conditions that facilitate respectful racial dialogue by building trust and effectively negotiating conflict Uncover each

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student's own subconscious bias and the intersectionality that exists even in the most homogenous-appearing classrooms Help students embrace discomfort, and adapt discussion methods to accommodate issues of race and positionality Avoid common traps, mistakes, and misconceptions encountered in anti-racist teaching Predominantly White institutions face a number of challenges in dealing with race issues, including a lack of precedence, an absence of modeling by campus leaders, and little clear guidance on how teachers can identify and challenge racism on campus. Teaching Race is packed with activities, suggestions and exercises to provide practical real-world help for teachers trying to introduce race in class

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