

Sam Dagogo-Jack
Editor

Leptin

Regulation and
Clinical Applications

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Leptin Regulation And Clinical Applications

Sam Dagogo-Jack, MD



Leptin Regulation And Clinical Applications:

Leptin Sam Dagogo-Jack, MD, 2014-11-18 Twenty years after its discovery recombinant human leptin has been approved by the Food and Drug Administration for the treatment of patients with lipodystrophy Beginning with a synthesis of the vast body of work on its discovery dissection of mechanisms and effects in experimental models the focus of this book shifts to a consideration of the regulation and role of leptin in humans The emphasis on human level data is a unique feature of this book The results of numerous studies indicate that leptin is indeed a regulated human hormone Leptin provides a detailed account of the myriad physiological hormonal metabolic immunological mitogenic and inflammatory modulators and targets of leptin in a single volume Next follows a comprehensive presentation of the therapeutic trials of recombinant leptin in patients with congenital leptin deficiency lipodystrophy hypothalamic amenorrhea and other emerging areas including leptin supplementation in leptin replete subjects leptin substitution for insulin in diabetic models and novel combination regimens of leptin and other biogenic peptides Unanswered questions and future directions in leptin research are highlighted in the Foreword by Dr Jeffrey Friedman and throughout the volume Identifying such questions helps direct research that could deepen understanding of the complex regulation of leptin under physiological and pathological conditions a critical prerequisite to its rational deployment in the treatment of human disorders

Clinical Application of Neuromuscular Techniques: The upper body Leon Chaitow, Judith DeLany, 2008-01-01 Discusses theories and physiology relevant to the manual treatment of chronic pain especially as it regards the soft tissues of the upper body Includes step by step protocols that address each muscle of a region and a regional approach to treatment and gives a structural review of each region including ligaments and functional anatomy

E-Book - Clinical Application of Neuromuscular Techniques, Volume 1 Leon Chaitow, Judith DeLany, 2008-03-06 The book discusses theories and physiology relevant to the manual treatment of chronic pain especially as it regards the soft tissues of the upper body Step by step protocols that address each muscle of a region and a regional approach to treatment are features that make this book unique A structural review of each region including ligaments and functional anatomy adds value for new students and practitioners alike Comprehensive one stop text on care of somatic pain and dysfunction Designed and written to meet the needs of those working with neuromuscular dysfunction in a variety of professions All muscles covered from perspective of assessment treatment of myofascial pain Describes the normal anatomy and physiology as well as the dysfunctions which may arise Gives indications for treatments and guidance on making the appropriate treatment choice for each patient Combines NMT MET PR and much more to give a variety of treatment options for each case Describes the different NMT techniques in relation to the joint anatomy involved Practical step by step technique descriptions Includes not only manual techniques but also acupuncture hydrotherapies and nutritional support as well as guidance for the patient in the use of self help approaches Two color format Up to date evidence based content

Eating Disorders and Obesity in Children and Adolescents Johannes Hebebrand, Beate

Herpertz-Dahlmann,2018-12-07 Get a quick expert overview of best practices for diagnosis and treatment of eating disorders in children and adolescents This concise resource by Drs Johannes Hebebrand and Beate Herpertz Dahlmann provides psychiatrists and pediatricians with current information in this increasingly important field including practical sections on developmental aspects of eating disorders symptomology epidemiology etiology and pathophysiology treatment and outcomes and prevention Discusses general concepts for feeding eating and weight disorders body weight and composition appetite regulation and the emergence of body perception and image Covers genetics of eating and weight disorders influence of hormones intergenerational effects and food addiction Includes information on cognitive behavioral therapy family based therapies early intervention pharmacotherapy bariatric surgery and other treatments Consolidates today's available information on this timely topic into a single convenient resource

Diabetes, An Issue of Endocrinology and Metabolism Clinics of North America S. Sethu K. Reddy,2016-11-09 This issue of Endocrinology and Metabolism Clinics guest edited by Dr Sethu K Reddy is devoted to Diabetes Articles in this issue include Approach to Multicultural Issues in Diabetes Clinical Utility of Genetic Testing in T2DM Utility of CGM Type 1 and Type 2 Diabetes Mellitus Islet Cell Transplantation Use of Telemedicine Nonalcoholic Steatohepatitis Microbiome Role in Type 1 and Type 2 Diabetes Mellitus Population Management and Diabetes Pre diabetes Metformin What do we know Insulin Making Sense of Current Options Nutrition in Diabetes Bariatric Surgery Pathophysiology and Outcomes Future Therapies in Diabetes Lipodystrophic Syndromes and In patient Diabetes Management in the 21st Century

Nutrition and Diabetes Emmanuel C. Opara,Sam Dagogo-Jack,2019-01-03 Diabetes occurs at such an alarming rate that it can be described as a global epidemic Following its predecessor Nutrition and Diabetes Pathophysiology and Management Second Edition is a comprehensive resource that describes various factors that drive the accumulation of excess body weight and fat resulting in obesity The book discusses the metabolic aberrations found in obesity and how they lead to the association of obesity with diabetes This new edition highlights the role played by diet and the interrelationships in the metabolism of key nutrients in the pathogenesis of obesity and diabetes which provides the scientific basis for treatment and management approaches Features Highlights the role of nutrition in the pathogenesis of obesity and diabetes Organized logically into two easy to use sections Pathophysiology and Management of Obesity and Pathophysiology and Treatment of Diabetes Features emerging therapeutic approaches for management of obesity and diabetes Discusses experience in the management of obesity and diabetes in developing countries Presents challenges in insulin therapy and provides guidelines to overcome them The first section of the book retains key topics from the previous edition and contains new chapters including genetic determinants of nutrient processing fat distribution and diabetes mellitus combined effect of diet and physical activity in the management of obesity pharmacologic treatment of obesity and the role of gut microbiota in the pathogenesis and treatment of obesity The second section features updated versions of most of the other chapters in the first edition comprising a modified chapter on oxidative

stress and the effects of dietary supplements on glycemic control in Type 2 diabetes In addition new chapters are added in this section and include the contribution of iron and transition metal micronutrients to diabetes role of microbiota in the pathogenesis and treatment of diabetes primary prevention of Type 2 diabetes and the pathophysiology and management of Type 1 diabetes

Encyclopedia of Endocrine Diseases ,2018-09-12 Encyclopedia of Endocrine Diseases Second Edition Five Volume Set comprehensively reviews the extensive spectrum of diseases and disorders that can occur within the endocrine system It serves as a useful and comprehensive source of information spanning the many and varied aspects of the endocrine end metabolic system Students will find a concise description of the physiology and pathophysiology of endocrine and metabolic functions as well as their diseases Each article provides a comprehensive overview of the selected topic to inform a broad spectrum of readers from advanced undergraduate students to research professionals Chapters explore the latest advances and hot topics that have emerged in recent years such as the molecular basis of endocrine and metabolic diseases mutations epigenetics signaling the pathogenesis and therapy of common endocrine diseases e g diabetes and endocrine malignancies new technologies in endocrine research new methods of treatment and endocrine toxicology disruptors Covers all aspects of endocrinology and metabolism Incorporates perspectives from experts working within the domains of biomedicine e g physiology pharmacology and toxicology immunology genetics and clinical sciences to provide readers with reputable multi disciplinary content from domain experts Provides a one stop resource for access to information as written by world leading scholars in the field with easy cross referencing of related articles to promote understanding and further research

Leptin and Leptin Antagonists Prof. Arie Gertler,2009-03-06 The discovery of leptin the obese ob gene product which is not expressed as a functional protein in ob ob mice focused the scientific community s attention on its role as an anorexigenic hormone involved in the negative regulation of food intake Almost 14 years after this breakthrough discovery and over 14 000 leptin related publications later leptin is now known to participate in a wide range of biological functions that include in addition to its early envisaged function as an adipostat glucose metabolism glucocorticoid synthesis CD4 T lymphocyte proliferation cytokine secretion phagocytosis hypothalamic pituitary adrenal axis regulation reproduction cardiovascular pathology bone formation apoptosis and angiogenesis In short it is now well documented that leptin acts like a cytokine hormone with many pleiotropic effects Furthermore in recent years it has become more and more apparent that many of leptin s effects are acquired not only through its central action but also through its systemic action on a peripheral level This book focuses mainly on the relatively novel aspects of leptin s actions Leptin s involvement in early postnatal imprinting has led to new insight into developmental programming This highly novel aspect of leptin s action is reviewed extensively in the final chapter of this book by the Auckland group Vickers Krechowec Gluckman and Breier In the last five years it has been shown that at least in rodents leptin acts as an important neurotrophic factor promoting the early postnatal maturation of neural pathways within the hypothalamus The authors review experimental evidence originating largely from

their own work which shows that therapeutic intervention with leptin in the rodents early postnatal life can potentially reverse or substantially ameliorate the consequences of developmental malprogramming and that this effect is highly influenced by both gender and postnatal diet RSSDI Diabetes Update 2019 Banshi Saboo,2020-02-29 Section 1 Epidemiology Section 2 Pathophysiology and Metabolism Section 3 Diagnosis and Classification Section 4 Lifestyle Modification Section 5 Therapeutics Section 6 Guidelines Section 7 Diabetes and Complications Section 8 Diabetic Foot Section 9 Diabetes and Co Morbidities Section 10 Diabetes and Women Section 11 Controversies in Diabetes Section 12 Diabetes and Education Section 13 Diabetes and Technology Section 14 Diabetes Prevention Section 15 Research Methodology *Atypical Diabetes* Boris Draznin,2018-05-01 Although the vast majority of diabetes cases type 1 and type 2 are polygenic diseases research funded by the American Diabetes Association has found that some forms of diabetes distinct from type 1 or type 2 diabetes are caused by single gene mutations It has been estimated that these monogenic forms of diabetes account for up to five percent of all diabetes cases In addition to monogenic diabetes there are other atypical causes of diabetes including genetic defects in insulin action diseases of the exocrine pancreas and endocrinopathies Given recent advances in our understanding of sub types of diabetes the time has come for a book on how to correctly diagnose and treat patients with atypical forms of this disorder The book will be divided into three parts each exploring distinct categories of atypical diabetes Part I Monogenic Diabetes Genetic Defects of cell development and function Part II Insulin resistance genetic defects in insulin action and diseases of exocrine pancreas Part III Endocrinopathies Immune mediated diabetes Diabetes of Unknown cause and Other genetic syndromes sometimes associated with diabetes **CRISPR-Cas-Based Genome Editing for Treating Human Diseases - Part B** ,2025-01-01 CRISPR Cas Based Genome Editing for Treating Human Diseases Part B represents CRISPR Cas systems for genome editing Currently CRISPR Cas systems have been proven to be a key technology for targeted genome editing which is acting as a simple rapid and cost effective solution Chapters in this release include Current approaches in CRISPR Cas systems for metabolic disorders Recent progress in CRISPR Cas systems for CRISPR for retinal diseases Recent progress in CRISPR Cas systems for cataract and blindness Advances in CRISPR Cas systems for muscular dystrophy Recent development in CRISPR Cas systems for cardiac disease Current approaches in CRISPR Cas systems for diabetes and much more Additional sections cover Advances in CRISPR Cas systems for liver disease Advances in CRISPR Cas systems for lung disease Advances in CRISPR Cas systems for kidney diseases Current progress in CRISPR Cas systems for rare disease Advances in CRISPR Cas systems for heredity disease Recent progress in CRISPR Cas systems for neurological disorders and CRISPR challenges in clinical developments Provides CRISPR Cas systems for metabolic disorders retinal disease cataracts and blindness Offer updates on muscular dystrophy cardiac disease diabetes and liver disease Includes content on lung disease kidney diseases rare diseases heredity diseases neurological disorders and CRISPR challenges in clinical developments Prediabetes: A Fundamental Text Samuel

Dagogo-Jack,2022-10-26 Prediabetes affects nearly 90 million U S adults and more than 374 million people worldwide But what exactly is prediabetes and how should it be treated Individuals with prediabetes have a high risk of progressing to type 2 diabetes Diabetes currently affects approximately 30 million adults in the U S and 463 million people worldwide and type 2 diabetes represents 90 95% of the diabetes burden Individuals with prediabetes also face increased risks of developing several complications including heart disease Intervention at the prediabetes stage can help prevent progression to type 2 diabetes and even lead to remission of prediabetes and a return to normal blood glucose regulation NGR However a deeper understanding of the pathobiology of prediabetes is critical to the discovery and delivery of programs for preventing of diabetes Focusing on prediabetes is compelling Understanding the numerous risk factors that trigger the initial escape from NGR toward prediabetes provides critical information that enables the precise and timely targeting of preventive interventions to at risk persons This book is for clinicians researchers public health practitioners and policy makers It begins with an overview of the demographic anthropometric biobehavioral and biochemical factors that drive the transition from normal blood glucose to prediabetes Emerging knowledge from the fields of genomics transcriptomics microRNAs metabolomics and microbiomics is incorporated into a comprehensive treatise on the pathobiology of prediabetes Next the focus shifts to evidence based management of prediabetes and prevention of type 2 diabetes Prediabetes seldom remits spontaneously Lifestyle modification and certain medications can prevent progression from prediabetes to type 2 diabetes and may even induce remission of prediabetes in some people Landmark diabetes prevention trials are discussed through the prism of their successful translatability in communities around the world Emphasis is placed on practical adaptations that would enable cost effective community diabetes prevention initiatives Interventions utilizing lifestyle modification are prioritized over medications but novel approaches including cyclical medication strategy designer nutraceuticals and metabolic surgery are also discussed Current lifestyle intervention protocols have been more effective at preventing progression from prediabetes to type 2 diabetes than they have been at restoring NGR This book makes the case that reversal of prediabetes and restoration of normal blood glucose levels carries numerous benefits and ought to be the primary goal of intervention in people with prediabetes

Health and Wellbeing in Late Life Prasun Chatterjee,2019-09-06 This open access book takes a multidisciplinary approach to provide a holistic understanding of late old age and situates the aged person within the context of family caregivers clinical and other institutions All through the book the author discusses preparedness for an aging individual as well as the society in the Indian context The book highlights inevitable but mostly neglected health issues like depression dementia fall and frailty and provides detailed analyses of solutions that are practicable in low resource settings It also brings up intergenerational differences and harmony in the context of holistic care of older Indians Alongside clinical perspectives the book uses narratives of elderly patients to dwell on the myriad of problems and issues that constitute old age healthcare Demonstrating cases that range from the most influential to the most

underprivileged elderly in India the book enlightens multiple caregivers doctors nurses and professional caregivers as well as family members about the dynamic approach required in dealing with complex issues related to late old age The narratives make the book relatable and interesting to non academic readers with important lessons for gerontological and geriatric caregiving It is also of use to older adults in preparing for active aging

Sensory and Metabolic Control of Energy Balance Wolfgang Meyerhof,Ulrike Beisiegel,Hans-Georg Joost,2010-09-24 During the last two decades the prevalence of obesity has dramatically increased in western and westernized societies Its devastating health consequences include hypertension cardiovascular diseases or diabetes and make obesity the second leading cause of unnecessary deaths in the USA As a consequence obesity has a strong negative impact on the public health care systems Recently emerging scientific insight has helped understanding obesity as a complex chronic disease with multiple causes A multileveled gene environment interaction appears to involve a substantial number of susceptibility genes as well as associations with low physical activity levels and intake of high calorie low cost foods Unfortunately therapeutic options to prevent or cure this disease are extremely limited posing an extraordinary challenge for today's biomedical research community Obesity results from imbalanced energy metabolism leading to lipid storage Only detailed understanding of the multiple molecular underpinnings of energy metabolism can provide the basis for future therapeutic options Numerous aspects of obesity are currently studied including the essential role of neural and endocrine control circuits adaptive responses of catabolic and anabolic pathways metabolic fuel sensors regulation of appetite and satiation sensory information processing transcriptional control of metabolic processes and the endocrine role of adipose tissue These studies are predominantly fuelled by basic research on mammalian models or clinical studies but these findings were paralleled by important insights which have emerged from studying invertebrate models

Adipose Tissue and Adipokines in Health and Disease Giamila Fantuzzi,Carol Braunschweig,2014-04-25 The field of adipose tissue biology has been expanding at a very rapid pace in the last few years Numerous advances have been made since publication of the first edition of this book in terms of basic adipocyte biology understanding of the determinants of obesity distribution of body fat and weight loss as well as the mechanisms linking excess adiposity to various comorbidities Adipose Tissue and Adipokines in Health and Disease Second Edition contains updated chapters from the previous volume but as the field has evolved some areas covered in the first edition have been refocused to address the new knowledge The volume is divided in four sections the first two deal with basic adipose tissue and adipokine biology while the last two address the problem of obesity and alterations in adipose tissue function from an epidemiological and clinical standpoint The chapters are written by experts in their fields and include the most up to date scientific information Adipose Tissue and Adipokines in Health and Disease Second Edition is a useful resource for physicians interested in adipose tissue biology and basic scientists who want to know more about applied aspects of the field The book targets endocrinologists residents and fellows internists nutritionists and general practitioners who are exposed to an ever

expanding obese population Global Health Complications of Obesity Jahangir Moini, Raheleh Ahangari, Carrie Miller, Mohtashem Samsam, 2020-04-01 Global Health Complications of Obesity presents a valuable resource for research scientists and clinicians by covering the burden of obesity and related diseases and serving as a starting point for in depth discussions in academic settings and for obesity treatment specialists Obesity is associated with a statistically higher risk of heart disease hypertension insulin resistance type 2 diabetes and many other diseases This succinct resource focuses on the current data research and management of obesity It is essential reading for healthcare professionals endocrinologists nutritionists public health students and medical students Presents clinical cases key terms and targeted references Addresses diseases including diabetes cancer hypertension osteoarthritis fatty liver disease infertility renal failure and depression Provides a link to new knowledge that is ideal for both researchers and clinicians **Leptin** V. Daniel Castracane, Michael C. Henson, 2006-12-22 This book is an edited collection of the literature on leptin beginning with the discovery of leptin and a study of its affect on animals and in humans Chapters will focus on the discovery history roles and regulation of leptin in all the major areas of physiology as well as on assay methods phylogeny and genetics The timing of this volume is long overdue and is the first comprehensive coverage of leptin physiology in the field Tumor Angiogenesis Regulators Ruben R. Gonzalez-Perez, Bo R. Rueda, 2013-05-09 The emphasis of this book is on mechanisms and pathways regulating the expression and actions of classical and novel tumor angiogenesis regulators The contributors discuss their underlying biology as well as anti angiogenic drugs currently in use to fight different cancers The book provides an insight on how factors such as obesity diabetes and other metabolic disorders can influence the development and growth of cancer It is of significant interest not only to oncologists but also to a wide range of medical practitioners and researchers *Obesity, An Issue of Endocrinology and Metabolism Clinics of North America* Caroline M. Apovian, Nawfal W. Istfan, 2016-08-21 This issue of Endocrinology and Metabolism Clinics guest edited by Drs Caroline M Apovian and Nawfal Istfan is devoted to Obesity Articles in this comprehensive issue include Guidelines for Obesity Management Obesity is a Disease Pharmacotherapy for Obesity Bariatric Surgery Mechanisms Diabetes Treatment in the Patient with Obesity Adipose Tissue Inflammation and the Endocrine Organ Behavioral Treatment of the Patient with Obesity The Role of Macronutrient Content in the Diet for Weight Loss and Weight Maintenance Substrate Oxidation and Brown Adipose Tissue Brown and Beige Adipose Tissue Therapy for Obesity Ethnic Differences in Diabetes Lipids HTN and Obesity Genetics of Bariatric Surgery Outcomes Leptin and Hormones Energy Homeostasis Bariatric Surgery Clinical Outcomes Medical Devices for Obesity Adolescent Bariatric Surgery Psychological Aspects of Obesity and Nutrient Timing **Adipokines: Advances in Research and Application: 2011 Edition**, 2012-01-09 Adipokines Advances in Research and Application 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Adipokines The editors have built Adipokines Advances in Research and Application 2011 Edition on the vast information databases of ScholarlyNews You

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