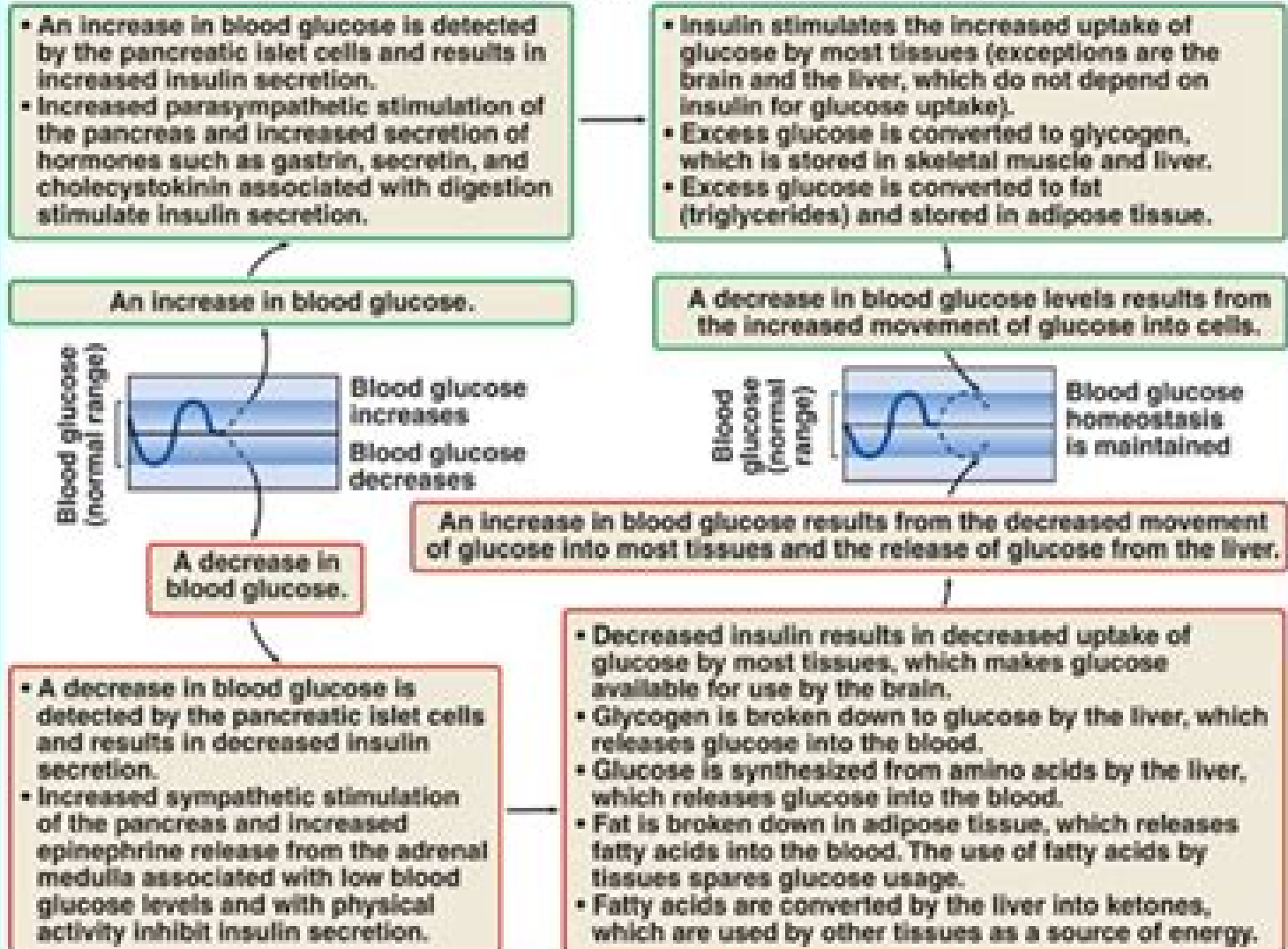


Regulation of Insulin Secretion

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Nutrient Regulation Of Insulin Secretion

Miloslav Rechcigl



Nutrient Regulation Of Insulin Secretion:

Nutrient Regulation of Insulin Secretion Peter R. Flatt, 1992 The mechanisms of release of insulin in response to the body's intake of nutrients has long been one of the central problems of research into diabetes This book presents the latest findings on the topic from the leading laboratories in the field **Molecular Nutrition and Diabetes** Didac

Mauricio, 2015-12-08 *Molecular Nutrition and Diabetes* A Volume in the Molecular Nutrition Series focuses on diabetes as a nutritional problem and its important metabolic consequences Fuel metabolism and dietary supply all influence the outcome of diabetes but understanding the pathogenesis of the diabetic process is a prelude to better nutritional control Part One of the book provides general coverage of nutrition and diabetes in terms of dietary patterns insulin resistance and the glucose insulin axis while Part Two presents the molecular biology of diabetes and focuses on areas such as oxidative stress mitochondrial function insulin resistance high fat diets nutraceuticals and lipid accumulation Final sections explore the genetic machinery behind diabetes and diabetic metabolism including signaling pathways gene expression genome wide association studies and specific gene expression While the main focus of each chapter is the basic and clinical research on diabetes as a nutritional problem all chapters also end with a translational section on the implications for the nutritional control of diabetes Offers updated information and a perspective on important future developments to different professionals involved in the basic and clinical research on all major nutritional aspects of diabetes mellitus Explores how nutritional factors are involved in the pathogenesis of both type 1 and type 2 diabetes and their complications Investigates the molecular and genetic bases of diabetes and diabetic metabolism through the lens of a rapidly evolving field of molecular nutrition

Physiology and Pathophysiology of the Islets of Langerhans Bernat Soria, 2013-11-21 Proceedings of the First International Meeting of the Pancreatic Islet Study Group held in the Alicante Spain November 25-28 1994 **Handbook of Nutritional Requirements in a Functional Context** Miloslav Rechcigl, 2018-01-18 The purpose of this Handbook is to bring together all the available information on the nutritional requirements of animal organisms for specific processes and functions This is believed to be the first systematic treatment of nutrition in a functional context Apart from furnishing specific nutritional data this Handbook provides a useful framework for a comparative physiologist or biochemist searching for commonality or differences among various biological systems *L-Arginine in Clinical Nutrition* Vinood B. Patel, Victor R. Preedy, Rajkumar Rajendram, 2016-08-23 This text presents the application of current nutritional knowledge by physicians and dietitians and incorporates emerging fields of science and important discoveries It contains seven major sections Section 1 Basic Processes at the Cellular Levels Section 2 Arginine Metabolism and Functions Section 3 Arginine Status in Cells Related to Organ Damage and Disease Section 4 Arginine Status and Use in Healthy Individuals Section 5 Arginine and Diseases of the Gastrointestinal Tract Section 6 Therapeutic uses of Arginine Diabetes Obesity and Cardiovascular Diseases and Section 7 Therapeutic Uses of Arginine Cancer Wound Healing and Infectious Disease Written by authors of

international and national standing leaders in the field and trendsetters Arginine in Clinical Nutrition is essential reading for nutritionists and dietitians public health scientists doctors epidemiologists health care professionals of various disciplines policy makers and marketing and economic strategists *Insulin and IGFs*, 2009-03-10 First published in 1943 Vitamins and Hormones is the longest running serial published by Academic Press 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 This volume focuses on insulin and IGFs Longest running series published by Academic Press Contributions by leading international authorities Nutrients and Oxidative Stress: Biochemistry Aspects and Pharmacological Insights Bee Ling Tan, Mohd Esa Norhaizan, 2024-11-28 Oxidative stress plays a prominent role in the development of numerous human diseases associated with animal based protein high carbohydrate diets and excessive fat consumption Obesity represents the main risk factor for chronic diseases such as cardiovascular disease cancer and type 2 diabetes Extensive research highlights the detrimental impacts of diets high in saturated fat and refined carbohydrates Type 2 diabetes cardiovascular disease and obesity are attributed to the sedentary lifestyles overconsumption of foods high in saturated fats and carbohydrates and the saturation of nutrient storage Indeed the effects of oxidative stress are associated with the absolute quantity and the type of macronutrients both of these aspects contribute to oxidative stress and may favor the development of obesity associated diseases and obesity Nonetheless the underlying mechanisms of nutritionally mediated oxidative stress are complex and poorly understood The literature reported on nutritionally mediated oxidative stress and the role of diets in oxidative stress induced diseases has not well been compiled in a singular source Nutrients and Oxidative Stress Biochemistry Aspects and Pharmacological Insights explores how dietary choices dampen or exacerbate inflammation and oxidative stress The implications of oxidative stress in glucose metabolism and adipocyte and obesity associated non communicable diseases are also discussed in this brief Several issues linked to nutritionally mediated oxidative stress including high carbohydrates high animal based proteins and excessive consumption of fats and oxidative stress and molecular mechanisms of oxidative stress induced diseases are covered The role of diets in oxidative stress induced diseases is also discussed By summarizing all the literature in one place this work provides a cohesive representation of the information and practical reference on the underlying mechanisms of nutritionally mediated oxidative stress involved in the prevention of chronic diseases The work provides a better understanding of the nutritionally mediated oxidative stress and the molecular mechanisms of oxidative stress in the development of chronic diseases and obesity **The Islets of Langerhans** Md. Shahidul Islam, 2010-03-10 When new fellows join my lab I give

them some reading materials so that they can orient themselves in their assignment in a new eld When fellows leave my lab some after writing their dissertations I prefer to give them a book as a symbolic present I was longing for a book that contained something on more or less eve thing about the islets At the same time I wished it contained information as recent as possible There are a few such books in the market but they are pretty outdated I started picking islets myself from October 1990 when I joined the Rolf Luft Center Karolinska Institutet Over the years my fascination for islet research remained high Since last year I felt a stronger urge to do more for these mysterious and hidden mini organs that are directly or indirectly involved in the pathogenesis of all forms of diabetes that affects 250 million people in the world After I launched the Islet landesbioscience com journals islets and founded the Islet Society isletso ety org there was a momentum that could be utilized to create something equally meaningful i e this book The idea cracked in September 2008 Starting September 19 2008 I contacted an estimated 90% of the authors who published anything on the islets during 2007 2008 and who could be traced from the internet **Comprehensive Human Physiology** Rainer Greger,Uwe Windhorst,2013-11-11

Comprehensive Human Physiology is a significantly important publication on physiology presenting state of the art knowledge about both the molecular mechanisms and the integrative regulation of body functions This is the first time that such a broad range of perspectives on physiology have been combined to provide a unified overview of the field This groundbreaking two volume set reveals human physiology to be a highly dynamic science rooted in the ever continuing process of learning more about life Each chapter contains a wealth of original data clear illustrations and extensive references making this a valuable and easy to use reference This is the quintessential reference work in the fields of physiology and pathophysiology essential reading for researchers lecturers and advanced students **The**

Electrophysiology of Neuroendocrine Cells Hans Scherubl,Jurgen Hescheler,1995-08-21 The Electrophysiology of Neuroendocrine Cells explores the role of electrical activity in neuroendocrine cells in stimulus secretion coupling sensory mechanisms and intercellular communication This comprehensive and concise handbook includes introductory material on the ontogenesis and classification of the neuroendocrine system and describes general electrical properties voltage gated ion channels and the pharmacology of ion channels By focusing on functional aspects The Electrophysiology of Neuroendocrine Cells provides research scientists physicians and students with a basic understanding of neuroendocrine cells and their similarity to neurones as well as their relationship to thyroid or steroid hormone secreting endocrine cells The multidisciplinary nature of this book provides readers with a broad perspective on the electrical properties of neuroendocrine cells and the combination of general information and specialized information makes the book accessible to beginning and advanced readers alike The Biology of the Pancreatic Cell S.L. Howell,1999-04-15 As a result of the key advances made more than 30 years ago specifically the ability to isolate islets of Langerhans from the pancreas the ability to measure insulin accurately by immunoasay and the development of microchemical techniques for studying cells and their components many

research volumes symposium reports and original papers have been produced This explosion of interest has probably had at least three stimuli 1 the inherent scientific interest in understanding secretion of the pancreatic cell² the cells relevance to a very common disease³ the availability of funding from specific sources related to diabetes research for instance Juvenile Diabetes Foundation International and the British Diabetic Association As a result of all this activity detailed scientific literature including research reviews are readily available Surprisingly enough there are relatively few attempts to summarize this great bulk of knowledge in a way that is accessible to the newcomer to this field and this book is intended to bridge this gap

RSSDI Textbook of Diabetes Mellitus Hemraj B Chandalia, Bb Ed Tripathy, 2012-01-15 The second edition was published in 2008 only two years after the first but went out of print before a third edition could be prepared so this revised version of the second edition is published to bridge the gap Under the auspices of the Research Society for the Study of Diabetes in India endocrinologists immunologists and other specialists present a broad reference on the disease of which India has more cases than any other country After a review of landmarks in the history of diabetes they cover physiology and metabolism diagnosis and classification epidemiology etiopathogenesis of diabetes mellitus genetics and immunology clinical profile management co morbid conditions complications diabetes through life and events living with diabetes health care delivery and prevention The two volumes are pagged continuously and both contain the combined index Annotation 2012 Book News Inc Portland OR booknews com

Recent Advances in Growth Research Matthew W. Gillman, Peter D. Gluckman, Ron G. Rosenfeld, 2013 Growth in mammals encompasses several stages from intrauterine growth through infancy and childhood to adolescence Each of these phases is characterized by very specific nutritional molecular and endocrine perspectives which under ideal conditions allow the organism to achieve its genetically programmed growth patterns In this book an international panel of experts addresses these topics in a historical physiological and social perspective The first part investigates the genetic epigenetic molecular and nutritional determinants of intrauterine and postnatal growth Part two deals with non evolutionary changes which occurred in the recent past such as changes in body size in utero during infancy and childhood and during adolescence and the potentially unfavorable consequences of enhanced nutrition and growth including early onset of puberty development of obesity and increases in metabolic and cardiovascular disease The last part addresses the question of which factors define healthy growth in light of the influence of nutritional molecular and endocrine influences Although the association between rapid changes in body size and adverse health effects is clear the precise nature of causality remains uncertain Presenting the latest scientific findings in growth research this publication provides essential reading for pediatricians clinical investigators and health workers

Joslin's Diabetes Mellitus Elliott Proctor Joslin, C. Ronald Kahn, 2005 The bible on diabetes mellitus is now in its Fourteenth Edition thoroughly revised and updated by more than 80 noted experts from the Joslin Diabetes Center and other leading institutions worldwide This edition includes a new eleven chapter section on hormone action and the regulation of metabolism The section on

definition and pathogenesis now includes chapters on genetics diabetes in Asia and Africa and diabetes in U S minority groups Other new chapters cover retinopathy cardiovascular disease wound healing and treatment of women with diabetes All of the Fourteenth Edition s figures have been completely updated

Control of Pancreatic Beta Cell Function and Plasticity in Health and Diabetes David J. Hill, 2016-12-02 Plasticity in insulin producing cells cells of the pancreas is a major contributor to metabolic control Targeted regeneration of pancreatic cells for the reversal of diabetes by optimizing cells mass and proliferation to meet metabolic requirements and counter autoimmune response is still a theoretical intervention This monograph reviews the biology ontogeny capabilities and present practical limitations of cell plasticity Relevant biochemical pathways are described with the inclusion of information about how they change with aging during pregnancy and with diet Readers will learn the following key aspects about cell plasticity current knowledge of pancreatic cells development and how cell mass and proliferation change throughout the human lifespan the mechanisms responsible for cell plasticity based on animal models and clinical studies revealing environmental epigenetic endocrine and paracrine regulators the therapeutic potential of resident stem cells within the pancreas bone marrow and cell progenitors This monograph is essential reading for researchers interested in updated knowledge about the molecular and cellular biology of cells in the quest to find a reliable therapy for diabetes

Type 1 Diabetes David Wagner, 2011-11-25 This book is a compilation of reviews about the pathogenesis of Type 1 Diabetes T1D is a classic autoimmune disease Genetic factors are clearly determinant but cannot explain the rapid even overwhelming expanse of this disease Understanding etiology and pathogenesis of this disease is essential A number of experts in the field have covered a range of topics for consideration that are applicable to researcher and clinician alike This book provides apt descriptions of cutting edge technologies and applications in the ever going search for treatments and cure for diabetes Areas including T cell development innate immune responses imaging of pancreata potential viral initiators etc are considered

International Textbook of Diabetes Mellitus R. A. DeFronzo, E. Ferrannini, Paul Zimmet, George Alberti, 2015-03-11 The International Textbook of Diabetes Mellitus has been a successful well respected medical textbook for almost 20 years over 3 editions Encyclopaedic and international in scope the textbook covers all aspects of diabetes ensuring a truly multidisciplinary and global approach Sections covered include epidemiology diagnosis pathogenesis management and complications of diabetes and public health issues worldwide It incorporates a vast amount of new data regarding the scientific understanding and clinical management of this disease with each new edition always reflecting the substantial advances in the field Whereas other diabetes textbooks are primarily clinical with less focus on the basic science behind diabetes ITDM s primary philosophy has always been to comprehensively cover the basic science of metabolism linking this closely to the pathophysiology and clinical aspects of the disease Edited by four world famous diabetes specialists the book is divided into 13 sections each section edited by a section editor of major international prominence As well as covering all aspects of diabetes from epidemiology and pathophysiology

to the management of the condition and the complications that arise this fourth edition also includes two new sections on NAFLD NASH and non traditional associations with diabetes and clinical trial evidence in diabetes This fourth edition of an internationally recognised textbook will once again provide all those involved in diabetes research and development as well as diabetes specialists with the most comprehensive scientific reference book on diabetes available *Textbook of Diabetes* Richard I. G. Holt, Clive Cockram, Allan Flyvbjerg, Barry J. Goldstein, 2011-07-26 Over three editions the Textbook of Diabetes has built a reputation as a book that is extremely well organized and easy to navigate with exceptional illustrations and an excellent blend of clinical and scientific content Previously edited by John Pickup and Gareth Williams this fourth edition has four brand new editors from across the globe The editors have assembled an outstanding set of international contributors who provide insight on new developments in diabetes care and information on the latest treatment modalities used around the world The new Textbook of Diabetes has been restructured into 12 parts in one accessible volume and is designed with the busy diabetes care team in mind As well as retaining the elements that have made it such a popular brand such as the outstanding full colour illustrations and text design the new edition sees even greater emphasis on the clinical aspects of diabetes with new chapters on managing patients with diabetes the treatment of diabetes and the delivery and organization of diabetes care including Non insulin parenteral therapies New technologies for insulin administration and glucose monitoring The role of the multidisciplinary team There is also a companion website accompanying the book containing essential bonus material such as Over 150 interactive MCQ s to help you improve and test your clinical knowledge All 500 figures from the book in a downloadable format to use in slides and presentations Chapter pdfs and chapter references with full links to PubMed If you want a modern well illustrated international guide to diabetes this is the ideal reference book for you

Handbook of Diabetes Medical Nutrition Therapy Margaret A. Powers (RD.), 1996 Provides dietitians and other health care professionals with the information they need to provide comprehensive diabetes care and self management training Topics covered include understanding diabetes pathophysiology complications of diabetes setting and achieving management goals medical nutrition therapy nutrition assessment diabetes medications and delivery methods exercise benefits and guidelines comprehensive monitoring blood glucose monitoring preparing and evaluating diabetes education programs counseling skills selecting a nutrition approach expanding meal planning approaches the exchange system carbohydrate counting weight reduction cultural considerations macronutrient influence on blood glucose and health complex and simple carbohydrates in diabetes therapy identifying protein needs lipid metabolism and choices issues in prescribing calories low calorie sweeteners and fat replacers fiber metabolism making food choices life stages children and adolescents pregnancy and diabetes caring for older persons and nutrition and specific clinical conditions renal disease hypertension eating disorders surgery gastrointestinal issues dental care HIV AIDS etc Proceedings of the Nutrition Society, 1999

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