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Molecular Mechanisms Underpinning the Development of Obesity

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Lotte Meinert, Jens Seeberg



Molecular Mechanisms Underpinning The Development Of Obesity:

Molecular Mechanisms Underpinning the Development of Obesity Clevio Nobrega, Raquel Rodriguez-Lopez, 2014-12-31 **Molecular Mechanisms Underpinning the Development of Obesity** Clévio Nóbrega, Raquel Rodriguez-López, 2014-12-12 Obesity is a multi factorial disease in which an excess of accumulated body fat can reach levels capable of affecting health It results from an interplay between environmental factors eating behavior genes epigenetics and neuronal stimuli The main aim of this book is to provide a state of the art revision about the molecular mechanisms underpinning the development of obesity reviewing the current knowledge in areas like monogenic and polygenic obesity forms but also providing an updated view of the emerging knowledge about epigenetics nutrigenomics and neuronal aspects that also contribute to obesity Cellular and Biochemical Mechanisms of Obesity Paramjit S. Tappia, Bram Ramjiawan, Naranjan S. Dhalla, 2021-12-15 Global health has been challenged with the dawning of the era of the obesity epidemic and thus as a consequence strategies to reduce obesity have become public health priorities According to the United Nations obesity has been identified as a concern for achieving Sustainable Development Goals Obesity is a serious health problem with an increased risk of several common diseases including diabetes cardiovascular disease and cancer Although the fundamental cause of obesity and overweight is an imbalance between calorie intake and calorie expenditure the underlying biochemical and metabolic processes that cause obesity are not fully understood Two earlier volumes dedicated to the subject of obesity published in the series Advances in Biochemistry in Health and Disease focused on the pathophysiology of obesity induced health complications and the biochemistry of cardiovascular dysfunction in obesity This book brings together contributions from international experts in the field to describe advancements on the mechanisms leading to development of obesity and related complications There are 21 chapters in two different parts in this book comprising of Part I Pathophysiologic Mechanisms of Obesity 11 chapters and Part II Therapeutic Mechanisms of Obesity 10 chapters This book will serve as a resource and be of interest to health professionals medical students fellows residents and graduate students It will also evoke innovative research and effective approaches for the prevention of obesity This volume will accentuate that obesity is a major health hazard in its own right and that appropriate public health measures should be implemented to prevent or reduce or even reverse the impact of this global chronic disease **From Obesity to Diabetes** Juergen Eckel, Karine Clément, 2022-07-21 Obesity is a major risk factor for the development of type 2 diabetes and its associated complications a major socio economic burden for health care systems The worldwide prevalence of obesity doubled since 1980 and as a consequence the number of patients with diabetes has been continuously rising with more than 450 Mio people suffering from this disease at the present time Substantial progress has been made in understanding the molecular pathways leading from excessive fat accumulation to metabolic perturbation and finally diabetes manifestation This edition of the Handbook of Experimental Pharmacology aims to analyze new insight into the pathophysiology of obesity

to decipher the complex links to diabetes and its complications and to collect most recent information on new strategies for prevention and treatment of obesity and diabetes **Configuring Contagion** Lotte Meinert,Jens Seeberg,2022-02-11

Expanding our understanding of contagion beyond the typical notions of infection and pandemics this book widens the field to include the concept of biosocial epidemics The chapters propose varied and detailed answers to questions about epidemics and their contagious potential for specific infections and non infectious conditions Together they explore how inseparable social and biological processes configure co existing influences which create epidemics and in doing so stress the role of social inequality in these processes The authors compellingly show that epidemics do not spread evenly in populations or through simple coincidental biological contagion they are biosocially structured and selective and happen under specific economic political and environmental conditions This volume illustrates that an understanding of biosocial factors is vital for ensuring effective strategies for the containment of epidemics **Health Psychology and Behaviour Change** Katy

Tapper,2021-02-27 This textbook offers a fresh approach to health psychology through the theory and practice of behaviour change Using an array of case studies from around the world it discusses how we can develop and evaluate behaviour change interventions The book encourages active engagement with contemporary discussions about health behaviours covering areas of emerging importance such as weight stigma vaping nudges vaccine hesitancy and paleo inspired lifestyles With a focus upon critical thinking this book will equip students for success in their research projects and beyond Ideal for students of Health Behaviour Change and Health Psychology this textbook is also relevant to those taking courses in related fields such as Nursing and Public Health **Nutrition and Dietary Interventions in Cancer** Rida Fatima Saeed,Sadr ul

Shaheed,2024-08-12 This book presents the most up to date information on the effects of nutrition and food on cancer prevention and management The book will provide clinicians and other healthcare practitioners with an educational source on how to educate cancer patients and their families on nutrition and dietary during cancer treatment Recent nutritional epidemiology studies have occasionally produced controversial or unexpected results and highlight the need for additional research on diet and cancer risk Chapters within the book focus among others on the role of natural antioxidants in cancer the importance of micronutrients in cancer prevention and nutritional genomics and their role in cancer prevention By familiarizing readers with the latest developments in this complex field the book offers a valuable resource for scientists clinicians and students alike **Advances in Statin Therapy & Beyond in CVD (ASTC)** HK Chopra,Navin C Nanda,Jagat

Narula,2022-03-30 CVD or cardiovascular disease is a general term that describes a disease of the heart or blood vessels It is one of the most common causes of death Statins are a group of medicines that can help lower the level of low density lipoprotein LDL cholesterol in the blood LDL cholesterol of often referred to as bad cholesterol and statins reduce its production in the liver Having a high level of LDL is potentially dangerous as it can lead to hardening and narrowing of the arteries NHS Comprising nearly 1000 pages this book is a comprehensive guide to the latest advances in statin therapy and

its clinical application for cardiovascular disease Divided into 29 sections the text begins with clinical aspects of CVD dyslipidemia the imbalance of lipids such as cholesterol and the use of statins for treatment The next sections provide detailed discussion on the use of statins for different types of CVD including coronary artery disease hypertension heart failure arrhythmia stroke and more The following chapters cover statin use for other systemic diseases such as obesity kidney disease diabetes ocular disorders skin conditions and many more The book concludes with an insight into future therapies with emphasis on PCSK9 inhibitors a new treatment for lowering cholesterol in the blood

Obesity, Inflammation and Cancer Andrew J. Dannenberg, Nathan A. Berger, 2013-05-21 In addition to its metabolic and endocrinologic effects obesity and adipose tissue have now been shown to be associated with low grade inflammation resulting in cellular and humoral inflammatory factors of which the latter may act by endocrine paracrine and autocrine mechanisms These inflammatory mediators have increasingly been suggested as contributing to the obesity link to carcinogenesis and cancer promotion This volume of Energy Balance and Cancer will focus on recent developments and cutting edge research pointing to inflammation and inflammatory factors as key mediators of this linkage The volume first provides information on inflammation as an important link between obesity and insulin resistance which is in itself linked to promotion of cancer through hyperinsulinemia The volume then covers some of the most important mechanisms by which obesity leads to inflammation including the novel inflammasome concept alterations in chromatin structure circulating inflammatory factors unique cellular interactions between adipocytes and macrophages and the direct link of dietary fat to inflammation and cancer Overall this volume will provide important insight to help understand how inflammation may help modulate the linkage between obesity and cancer and serve as a platform for developing future research in this area

Medical Epigenetics Trygve Tollefsbol, 2016-06-21 Medical Epigenetics provides a comprehensive analysis of the importance of epigenetics to health management The purpose of this book is to fill a current need for a comprehensive volume on the medical aspects of epigenetics with a focus on human systems epigenetic diseases that affect these systems and modes of treating epigenetic based disorders and diseases The intent of this book is to provide a stand alone comprehensive volume that will cover all human systems relevant to epigenetic maladies and all major aspects of medical epigenetics The overall goal is to provide the leading book on medical epigenetics that will be useful not only to physicians nurses medical students and many others directly involved with health care but also investigators in life sciences biotech companies graduate students and many others who are interested in more applied aspects of epigenetics Research in the area of translational epigenetics is a cornerstone of this volume Critical reviews dedicated to the burgeoning role of epigenetics in medical practice Coverage of emerging topics including twin epigenetics as well as epigenetics of gastrointestinal disease muscle disorders endocrine disorders ocular medicine pediatric diseases sports medicine noncoding RNA therapeutics pain management and regenerative medicine Encompasses a disease oriented perspective of medical epigenetics as well as diagnostic and

prognostic epigenetic approaches to applied medicine Early Nutrition and Long-Term Health Jose M Saavedra, Anne M. Dattilo, 2022-08-06 Early Nutrition and Long Term Health Mechanisms Consequences and Opportunities Second Edition updates and expands upon the content in the first edition and adds focus on actionable and modifiable aspects of nutrition that have an impact on long term health and disease Part I examines the associations and the mechanisms of early life nutrition on growth as well as the development of cognitive metabolic immune and dietary patterns and behaviors Part II reviews the associations and impact of early life nutrition on non communicable disease as well as their societal and economic impact Part III focuses on the dietary and nutritional needs and approaches to optimizing the different stages of nutrition from conception to the second year of life Nutritionists pediatricians academics with research interest in this area and food industry and healthcare professionals working in infant child product and services as well as students studying related disciplines will benefit from this updated reference Examines the relation between early life nutrition and long term health Reviews the mechanistic aspects of the impact of diet nutrition from conception through the first years of life on health in later life Details the associations and the impact of early life nutrition on growth and development cognition immunity metabolism and dietary habits and patterns Addresses the relationship of early life nutrition and with non communicable diseases including allergies cardiovascular diseases metabolic conditions and obesity as well as approaches to curtail them Explores the current societal and economic impact and the potential for interventions to improving nutrition and health **Practical Guide to Obesity Medicine** Jolanta Weaver, 2017-09-29 Get a quick expert overview of the many key facets of obesity management with this concise practical resource by Dr Jolanta Weaver Ideal for any health care professional who cares for patients with a weight problem This easy to read reference addresses a wide range of topics including advice on how to unpack the behavioral causes of obesity in order to facilitate change manage effective communication with patients suffering with weight problems and future directions in obesity medicine Features a wealth of information on obesity including hormones and weight problems co morbidities in obesity genetics and the onset of obesity behavioral aspects and psychosocial approaches to obesity management energy and metabolism management and more Discusses pharmacotherapies and surgical approaches to obesity Consolidates today s available information and guidance in this timely area into one convenient resource Metabolomics as a Tool in Nutrition Research J-L Sebedio, L Brennan, 2014-11-28 Metabolomics is a multidisciplinary science used to understand the ways in which nutrients from food are used in the body and how this can be optimised and targeted at specific nutritional needs Metabolomics as a Tool in Nutrition Research provides a review of the uses of metabolomics in nutritional research Chapters cover the most important aspects of the topic such as analysis techniques bioinformatics and integration with other omic sciences such as proteomics and genomics The final chapters look at the impact of exercise on metabolomic profiles and future trends in metabolomics for nutrition research **Molecular System Bioenergetics** Valdur Saks, 2008-01-08 In this first integrated view practically each of the world s

leading experts has contributed to this one and only authoritative resource on the topic Bringing systems biology to cellular energetics they address in detail such novel concepts as metabolite channeling and medical aspects of metabolic syndrome and cancer

Obesity Tahir A. Mahmood, Sabaratnam Arulkumaran, 2012-12-31 Obesity is a continuing issue around the world and in many contexts The growing number of obese people is an increasing concern for those in the medical profession and obesity can pose specific challenges in relation to fertility and pregnancy Patients who are obese require specific considerations and knowledge Bringing together experts from a variety of specialties to examine the issues and challenges of obesity this book discusses how obesity affects fertility reproduction and pregnancy Beginning with an exploration of the epidemiology of obesity further chapters focus on specific issues related to obesity and both male and female reproduction the complications of obesity during pregnancy and labour and the long term effects of obesity This is the most comprehensive resource to examine the topic of obesity and reproductive issues making it invaluable for medical students professionals and researchers in public policy and medicine Comprehensive examination of fertility issues arising from male and female obesity Clinical knowledge and expertise given to the subjects In depth examination through 47 chapters of a growing but often overlooked issue in fertility and pregnancy

Epigenetics in Biological Communication Guenther Witzany, 2024-06-19 Every cell tissue organ and organism is competent to use signs to exchange information reaching common coordinations and organisations of both single cell and group behavior These sign mediated interactions we term biological communication The regulatory system that works in development morphology cell fate and identity physiology genetic instructions immunity memory learning physical and mental disease depends on epigenetic marks The communication of cells persistent viruses and their defectives such as mobile genetic elements and RNA networks ensures both the transport of regulatory instructions and the reprogramming of these instructions But how are the different states of the epigenome orchestrated The epigenetic pathways respond to various signaling cues such as DNA methylation histone variants histone modifications chromatin structure nucleosome remodeling and epigenetic interactions Epigenetic signals are responsible for the establishment maintenance and reversal of transcriptional states that are fundamental for the cell's ability to memorize past events such as changes in the external environment socio sphere or developmental cues External signals trigger changes in the epigenome allowing cells to respond dynamically Internal signals direct activities that are necessary for body maintenance and repairing damaged tissues and organs With the emergence of epigenetic memory organisms can fix historical and context dependent impressive experiences Evolution from now on learnt to learn Learning means organisms can avoid reproduction of always the same This is key to adaptation However inheritance of acquired characteristics is only one of the many examples of the explanatory power of epigenetics Behavioral epigenetics demonstrates the way in which environmental and social experiences produce individual differences in behaviour cognition personality and mental health This book assembles experts to outline the various motifs of all kinds of epigenetic regulation of cells throughout their lives

The CSIRO Healthy Gut

Diet Pennie Taylor, Michael Conlon, Tony Bird, 2018-09-25 In recent years we've come to realise that a healthy gut is pivotal to a healthy metabolism, a healthy brain and a healthy immune system. The explosion of scientific research in this field with CSIRO at the forefront has also led to the discovery that feeding our gut bacteria with a particular type of fermentable fibre called resistant starch is a major piece in the gut health puzzle. Collectively, gut problems account for a disproportionate number of GP visits and hospitalisations. Rates of bowel cancer and other intestinal conditions such as inflammatory bowel disease and irritable bowel syndrome are on the rise. The good news is that simple lifestyle changes to ensure a healthy high fibre diet with lots of resistant starch and tailored to your needs coupled with regular exercise can significantly reduce the risk of developing bowel cancer and other gut conditions. This book provides information on how the gut functions and what can go wrong along with advice and lots of delicious recipes that are high in fibre and resistant starch. Written by a team of experienced CSIRO researchers including nutritional scientists and dietitians, many of whom are internationally recognised authorities in nutrition and gut health, it contains simple practical advice and a wide range of tasty easy-to-make recipes designed to benefit the gut and overall health. This is a specially formatted fixed layout ebook that retains the look and feel of the print book.

Endocrine Disruptors and Metabolism Yann Gibert, Angel Nadal, Robert Sargis, 2020-01-20

Molecular mechanism of vascular remodelling and target organ damage Jia Qi, Qingxun Hu, Jintao Wang, Haineng Xu, Yanggang Yuan, 2023-06-05

Developmental Origins of Health and Disease Lucilla Poston, Keith M. Godfrey, Peter D. Gluckman, Mark A. Hanson, 2022-12-22 Fully revised new edition highlighting the scientific and clinical advances in the field of developmental origins of health and disease. Explores new understanding of mechanisms such as epigenetics and the role of environmental influences on the fetus. Interventions throughout the lifespan and implications for public health are also covered.

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Table of Contents Molecular Mechanisms Underpinning The Development Of Obesity

1. Understanding the eBook Molecular Mechanisms Underpinning The Development Of Obesity
 - The Rise of Digital Reading Molecular Mechanisms Underpinning The Development Of Obesity
 - Advantages of eBooks Over Traditional Books
2. Identifying Molecular Mechanisms Underpinning The Development Of Obesity
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Molecular Mechanisms Underpinning The Development Of Obesity
 - User-Friendly Interface
4. Exploring eBook Recommendations from Molecular Mechanisms Underpinning The Development Of Obesity
 - Personalized Recommendations
 - Molecular Mechanisms Underpinning The Development Of Obesity User Reviews and Ratings
 - Molecular Mechanisms Underpinning The Development Of Obesity and Bestseller Lists
5. Accessing Molecular Mechanisms Underpinning The Development Of Obesity Free and Paid eBooks
 - Molecular Mechanisms Underpinning The Development Of Obesity Public Domain eBooks
 - Molecular Mechanisms Underpinning The Development Of Obesity eBook Subscription Services
 - Molecular Mechanisms Underpinning The Development Of Obesity Budget-Friendly Options

6. Navigating Molecular Mechanisms Underpinning The Development Of Obesity eBook Formats
 - ePub, PDF, MOBI, and More
 - Molecular Mechanisms Underpinning The Development Of Obesity Compatibility with Devices
 - Molecular Mechanisms Underpinning The Development Of Obesity Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Molecular Mechanisms Underpinning The Development Of Obesity
 - Highlighting and Note-Taking Molecular Mechanisms Underpinning The Development Of Obesity
 - Interactive Elements Molecular Mechanisms Underpinning The Development Of Obesity
8. Staying Engaged with Molecular Mechanisms Underpinning The Development Of Obesity
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Molecular Mechanisms Underpinning The Development Of Obesity
9. Balancing eBooks and Physical Books Molecular Mechanisms Underpinning The Development Of Obesity
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Molecular Mechanisms Underpinning The Development Of Obesity
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Molecular Mechanisms Underpinning The Development Of Obesity
 - Setting Reading Goals Molecular Mechanisms Underpinning The Development Of Obesity
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Molecular Mechanisms Underpinning The Development Of Obesity
 - Fact-Checking eBook Content of Molecular Mechanisms Underpinning The Development Of Obesity
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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