

Type of diabetes



T1DM

Deficient insulin production in the body. It results from autoimmune-mediated destruction of pancreatic β -cells

T2DM

Insulin insensitivity caused by insulin resistance, poor insulin production, and pancreatic β -cell destruction

GDM

Develops during pregnancy, usually in 2nd trimester. Hormones produced by placenta interferes with proper functioning of insulin in the mother, leading to raised blood sugar in the mother's blood

MODY

Caused due to genetic variation in the genes involved in the production of insulin from the pancreas

- (1) Frequent urination
(2) Feeling more thirsty than usual
(3) Feeling very hungry
(4) Extreme fatigue
(5) Blurry vision
(6) Weight loss (T1DM)
(7) Tingling, pain, or numbness in hands/feet (T2DM)

Usually, GDM has no symptoms/or the symptoms can be mild, such as being thirstier than normal or having to urinate more often

- (1) Frequent urination
(2) Feeling more thirsty than usual
(3) Blurry vision
(4) Recurrent skin infections
(5) Recurrent yeast infections

High levels of glucose in blood and tissue



- (1) Hexosamine Pathway
(2) Polyol Pathway
(3) Protein Kinase C Pathway
(4) AGE/RAGE Pathway
(5) Mitochondrial Stress Pathway



Microvascular complications

Retinopathy

Nephropathy

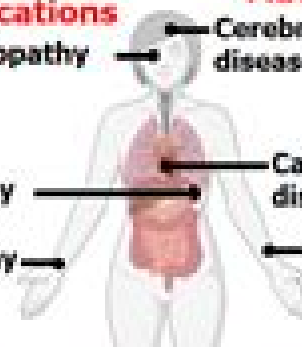
Neuropathy

Macrovascular complications

Cerebrovascular disease

Cardiovascular disease

Peripheral vascular disease



Diabetes Genes And Disease

Jorge R. Oksenberg, David Brassat



Diabetes Genes And Disease:

Computational Methods in Predicting Complex Disease Associated Genes and Environmental Factors Yudong Cai, Jialiang Yang, Tao Huang, Minxian Wallace Wang, 2021-06-11 **Genes and Common Diseases** Alan Wright, 2007-08-02 This book examines the role of genetics in modern medicine reflecting the strengths and limitations of a genetic perspective **The Genetics of Type 2 Diabetes and Related Traits** Jose C. Florez, 2016-04-11 This book presents the state of the art of type 2 diabetes genetics from the process of genetic discovery to its interpretation and clinical application and illustrates a model for other complex human phenotypes The first section explores genome wide association studies the extension of this method to less accessible phenotypes and the arrival of next generation sequencing A further section goes beyond genetics to illustrate how other data sources can help interpret genetic data such as leveraging population diversity the correlation of genetic associations with physiological measurements gene expression modulation environmental factors and our microbial commensals The third section describes advances in elucidating the complex path from association to function using in depth sequencing and functional studies of the cellular and molecular effects of genes in the loci identified by genetics The final section links our current understanding with clinically relevant questions such as prediction interactions with drugs or nutrients and disease prevention and paints a realistic but hopeful vision of the future **The Genetics of Complex Thyroid Diseases** T. Akamizu, M. Kasuga, T.F. Davies, 2012-12-06 The rapid developments in molecular genetics have clarified many of the mutations in monogenic thyroid diseases over the last two decades now the target of molecular thyroid genetics has become the oligogenic thyroid diseases These include the autoimmune thyroid diseases and familial thyroid cancers both of which are much commoner than the monogenic diseases However the methodological approach to the genetics of these more complex diseases is still far from being well established Although the discovery of susceptibility genes has been partially accomplished in complex diseases such as asthma Crohn's disease and types I and II diabetes mellitus the elucidation of susceptibility genes in complex diseases remains a major challenge This volume contains papers presented at the International Symposium on the Genetics of Complex Thyroid Diseases This meeting was held in association with the International Thyroid Congress in Kyoto in October 2000 and supported in part by the Japan Intractable Diseases Research Foundation and Knoll Pharmaceuticals Inc The symposium was the first international symposium concerning the genetics of complex thyroid diseases and was restricted to the study of the autoimmune thyroid diseases and familial thyroid cancer Twenty distinguished researchers from the United States the United Kingdom France Germany Italy and Japan were invited Each presentation precipitated intense discussion and there was much consensus during the meeting Nevertheless this volume will leave the reader with a clear understanding of how little we still know *Genes, Chromosomes, and Disease: From Simple Traits, to Complex Traits, to Personalized Medicine* Nicholas W. Gillham, 2011 This readable overview covers the rise of medical genetics through the past century and the eugenic impulses it has inspired Nicholas Gillham reviews the

linkages between genes and disease ethnic groups differential susceptibility to genetic traits and disorders personalized medicine and crucial social and ethical issues arising from the field s progress

Disease Progression: New Insights for the Healthcare Professional: 2013 Edition ,2013-07-22 Disease Progression New Insights for the Healthcare Professional 2013 Edition is a ScholarlyBrief that delivers timely authoritative comprehensive and specialized information about Additional Research in a concise format The editors have built Disease Progression New Insights for the Healthcare Professional 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Additional Research in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Disease Progression New Insights for the Healthcare Professional 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

Disease Pathways Anastasia P. Nesterova,Anton Yuryev,Eugene A. Klimov,Maria Zharkova,Maria Shkrob,Natalia V. Ivanikova,Sergey Sozin,Vladimir Sobolev,2019-10-18 Disease Pathways An Atlas of Human Disease Signaling Pathways is designed to fill a void of illustrated reviews about the cellular mechanisms of human diseases It covers 42 of the most common non oncologic diseases and illustrates the connections between the molecular causes of the disease and its symptoms This resource provides readers with detailed information about the disease molecular pathways while keeping the presentation simple Pathway models that aggregate the knowledge about protein protein interactions have become indispensable tools in many areas of molecular biology pharmacology and medicine In addition to disease pathways the book includes a comprehensive overview of molecular signaling biology and application of pathway models in the analysis of big data for drug discovery and personalized medicine This is a must have reference for general biologists biochemists students medical workers and everyone interested in the cellular and molecular mechanisms of human disease Over 145 full color illustrations of the molecular and cellular cascades underlying the disease pathology Disease pathways are based on computational models from Elsevier s Disease Pathway Collection published for the first time outside of Pathway Studio commercial software Each relationship on the pathway models is supported by references to scientific articles and can be examined at freely available online resources

Functional Genetics of Type 1 Diabetes ,2018

Genetics of Endocrine Diseases and Syndromes Peter Igaz,Attila Patócs,2019-10-06 This book provides a comprehensive overview of the genetic basis underlying endocrine diseases It covers both the molecular and clinical consequences of these genetic defects as well as the relevance for clinical care highlighting issues of genetic counseling Several endocrine diseases have a genetic background and contemporary research in the field plays a crucial role in the clinical care of endocrine diseases In recent years there have been major developments in our understanding of the genetic

basis of endocrine diseases Several novel genes and mutations predisposing individuals to monogenic endocrine diseases have been discovered and with the advent of next generation sequencing a huge amount of new data has become available Further novel molecular mechanisms such as genomic imprinting have been implicated in the pathogenesis of endocrine diseases A better understanding of the genetic background of these diseases is relevant not only from the research perspective but also in terms of clinical care As such this book is an essential read for both researchers and clinicians working in the field

Immunogenetics of Autoimmune Disease Jorge R. Oksenberg, David Brassat, 2007-12-22

Autoimmunity is the downstream outcome of a rather extensive and coordinated series of events that include loss of self tolerance peripheral lymphocyte activation disruption of the blood systems barriers cellular infiltration into the target organs and local inflammation Cytokines adhesion molecules growth factors antibodies and other molecules induce and regulate critical cell functions that perpetuate inflammation leading to tissue injury and clinical phenotype The nature and intensity of this response as well as the physiological ability to restore homeostasis are to a large extent conditioned by the unique amino acid sequences that define allelic variants on each of the numerous participating molecules Therefore the coding genes in their germline configuration play a primary role in determining who is at risk for developing such disorders how the disease progresses and how someone responds to therapy Although genetic components in these diseases are clearly present the lack of obvious and homogeneous modes of transmission has slowed progress by preventing the full exploitation of classical genetic epidemiologic techniques Furthermore autoimmune diseases are characterized by modest disease risk heritability and multifaceted interactions with environmental influences Yet several recent discoveries have dramatically changed our ability to examine genetic variation as it relates to human disease In addition to the development of large scale laboratory methods and tools to efficiently recognize and catalog DNA diversity over the past few years there has been real progress in the application of new analytical and data management approaches

Diabetes Genes And Disease Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Diabetes Genes And Disease**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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