

Asthma: Genetic Susceptibility

T2-High Asthma



- ↑ Eosinophils
- ↑ Cytokines (IL-33, IL-25, TSLP, IL-13, IL-5)

Often found in allergic asthma
Causes inflammation, airway hyper responsiveness

T2-Low Asthma

Th1



Th17



- ↑ Neutrophils
- ↑ Cytokines (IL-17, TNF-alpha, IL-18, NLRP3)
- Cause inflammation in lungs
less likely to respond to steroids

Genes Linked to Asthma

Th2

IL-33
TSLP
IL-4

Histamine

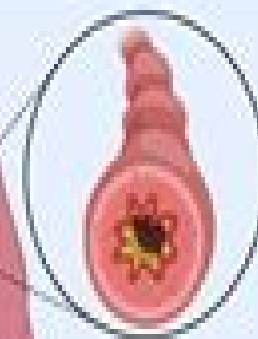
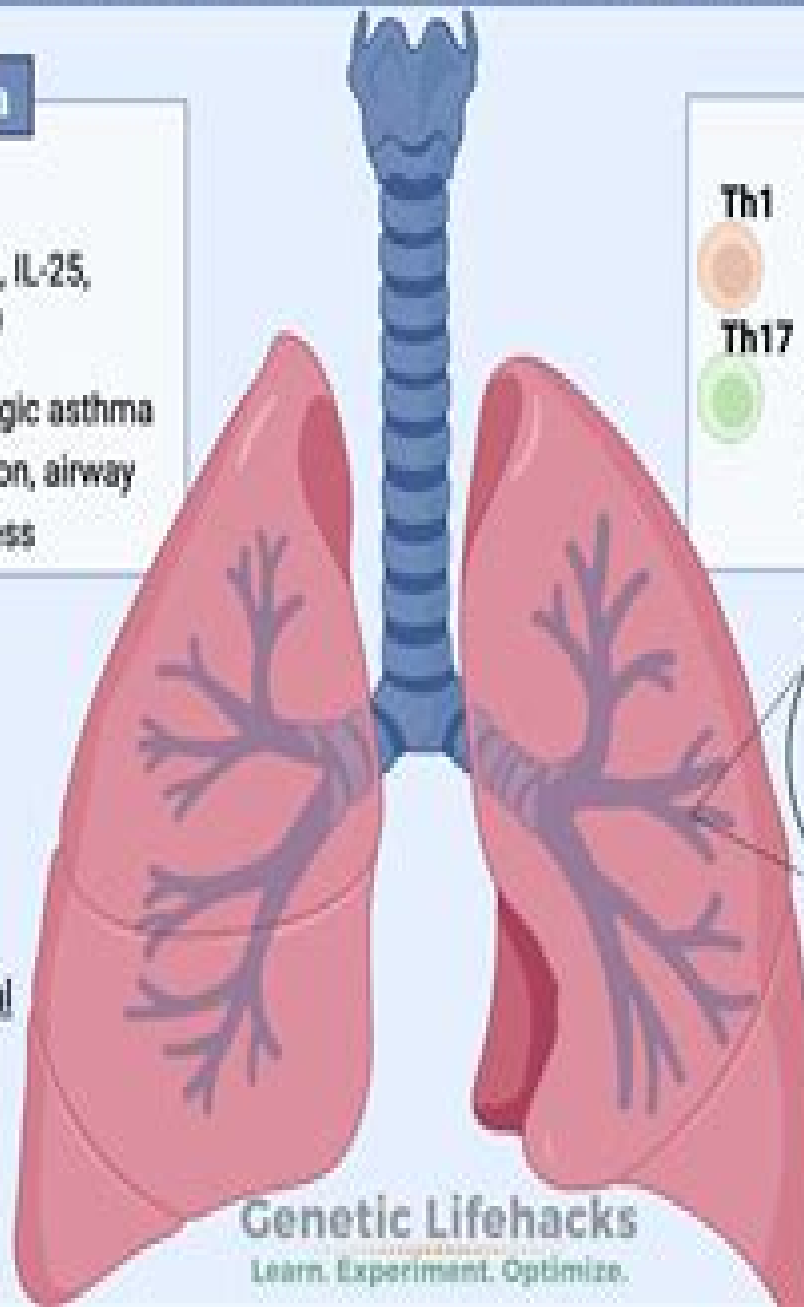
IL-13
HNMT
HRH1

Th1, Th17

TBX2
IL17A
TNF
IL1R1

Environmental

GSTA1
GSTP1
GSMB
SOD2



Other Asthma Phenotypes:

Aspirin-induced asthma
Smoking-induced asthma
Asthma in the elderly
Obesity-induced asthma
Combined T2-high/T2-low



Genetic Lifehacks

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Asthma Genes And Disease

**Gianni Marone, Stephen T. Holgate, A.
Barry Kay, Lawrence M.
Lichtenstein, K.F. Austen**

Asthma Genes And Disease:

Genetics of Asthma and Chronic Obstructive Pulmonary Disease Dirkje S. Postma, Scott T. Weiss, 2006-09-06

Responding to the substantial growth that has taken place in the field over the past decade this reference provides an in depth overview of current thought on the genetics and genomics of asthma and COPD in relation to their pathogenesis and treatment With contributions by an esteemed team of international authorities on the topic this source sp Genetics of Disease Dr. Arvind Kumar Tripathi, 2022-04-27 This book is based on previous findings of various association studies conducted in different population of the world Human genetic studies and association of genetic polymorphisms with disease has been assisted in finding of causes of disease and development of molecular medicine After discovery of genetic material scientists are continuously working to understand the genes involved to various biochemical and metabolic pathways Genetics has now opened the door of new era to understand the possible role of genes in many disorders including diabetes hypertension thyroidism cancer and many other autoimmune diseases The disorders in metabolism could be due to lack of normal expression of gene and their functional proteins This abnormality could be arising in the gene due to the presence of specific polymorphic allele of particular gene and due to this polymorphism Many genetic studies already did in past clearly indicate the role of genetic base and mutations SNPs and VNTR could be responsible to increase the susceptibility of many disease Genetic association study as well as proteomic studies has introduced a new dimension to understand the possible role of genetic polymorphisms in metabolic and life threatening disorders The disorders in metabolism could be due to lack of normal expression of gene and their functional proteins This abnormality could arise in the genes due to the presence of specific polymorphic allele of particular gene Many genetic studies already conducted which clearly indicate the role of genetic factors in the susceptibility of disease causation We hope that this book will be helpful to readers to understand the importance of genetic base in disease susceptibility Dr Arvind Kumar Tripathi Asthma and Allergic Diseases Gianni Marone, Stephen T. Holgate, A. Barry Kay, Lawrence M. Lichtenstein, K.F. Austen, 1998-05-01 This book updates the previous coverage of the mechanisms and mediators of asthma and its treatment It presents articles by the foremost names in the field Updates the previous coverage of the mechanisms and mediators of asthma and its treatment Presents articles by the foremost names in the field Includes over 92 figures and 12 tables *Genetics of Inflammatory and Immune Diseases* Xianying Yin, Yonghu Sun, Yunqing Ren, 2024-01-23 *Genetics of Inflammatory and Immune Diseases* *Asthma* Terry L. Smith, 2009 Describes the symptoms diagnosis treatment and genetic aspects of asthma Asthma, Health and Society Andrew Harver, Harry Kotses, 2010-03-10 *Asthma Health and Society A Public Health Perspective* Edited by Andrew Harver University of North Carolina at Charlotte Charlotte Harry Kotses Ohio University Athens *Asthma Health and Society* is a comprehensive current resource on this complex disease its scope human costs and management from a combined social ecology public health perspective This important and unique book proposes a concerted multifaceted response and sets out

the foundation for shaping this response comprising individual and large scale assessment education advocacy and multiple forms of intervention In clear authoritative detail enhanced by figures graphs and references contributors explain where universal standards need to be set alliances need to be built such as among agencies and institutions in a community and what is currently known about Pathophysiology epidemiology and social impact of asthma Genetic and environmental factors protective factors and risk markers Effects in women minorities children teens and elders Medical management self management and home monitoring Evidence based interventions at the family school and community levels Screening guidelines compliance issues and more In the absence of a cure or clear cut causes Asthma Health and Society offers the most robust compilation of practical knowledge on its subject to benefit the range of public health and asthma professionals researchers teachers and students

The Origins of Health and Disease Michael E. Hyland, 2011-04-21 Some phenomena in medicine and psychology remain unexplained by current theory Chronic fatigue syndrome repetitive strain injury and irritable bowel syndrome for example are all diseases or syndromes that cannot be explained in terms of a physiological abnormality In this intriguing book Michael E Hyland proposes that there is a currently unrecognised type of illness which he calls dysregulatory disease Hyland shows how such diseases develop and how the communication and art of medicine good nursing care complementary medicine and psychotherapy can all act to reduce the dysregulation that leads to dysregulatory disease The Origins of Health and Disease is a fascinating book that develops a novel theory for understanding health and disease and demonstrates how this theory is supported by existing data and how it explains currently unexplained phenomena Hyland also shows how his theory leads to new testable predictions that in turn will lead to further scientific advancement and development

Respiratory Diseases in Infants and Children U. Frey, J. Gerritsen, 2006-09-01 Respiratory disorders in infants and children are challenging problems for every clinician involved in the management of these patients This book summarises recent advances in the management of children The scholarly contributions of the distinguished contributors represent a careful and comprehensive synthesis of current knowledge in pathogenesis diagnosis and treatment

Unified Airway Disease, An Issue of Otolaryngologic Clinics of North America, E-Book Devyani Lal, David Jang, Angela Donaldson, 2022-11-23 In this issue of Otolaryngologic Clinics guest editors Drs Devyani Lal Angela Donaldson and David Jang bring their considerable expertise to the topic of Unified Airway Disease Unified airway disease is a recently defined entity that alludes to inflammation disease processes that involve both upper and lower airway and co management of these conditions by otolaryngologists and allergy immunologists often result in improved outcomes In this issue experts in the field provide a thorough overview of the pathophysiology diagnosis and management of unified airway disease through the perspective of an otolaryngologist co managing the patient with an allergy immunology colleague Contains 16 practice oriented topics including environmental factors eosinophilic disease non eosinophilic and granulomatous disease cystic fibrosis pediatric unified airway disease unified airway disease medical and surgical management future directions and more

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