

THE JOURNAL OF Allergy AND Clinical Immunology

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CYTOKINES

Guest Editor: Eric Brandt, PhD

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REVIEWS

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Allergy Asthma Clinical Immunology Journal

Malina Malkani, MS RDN CDN



Allergy Asthma Clinical Immunology Journal:

Asthma and Rhinitis William W. Busse, Stephen T. Holgate, 2008-04-30 The second edition of this highly acclaimed text has been extensively revised and greatly expanded to reflect the considerable advances made in our understanding of the mechanisms of asthma and rhinitis Containing the contributions of 242 experts of international standing presented in 133 chapters *Asthma and Rhinitis* provides an up to date authoritative reference for both the clinician and scientist The global approach given in this book mirrors the universal approach to the understanding of allergic disease The editors have carried out a thorough and radical revision of the content by adding 6 new sections and 44 new chapters Most of this expansion is due to greatly increased coverage of the clinical aspects of asthma with new sections on childhood asthma and on drug treatment each drug class has its own chapter Also the expansion of research into the genetic basis of asthma has necessitated a whole new section on Genetics comprising some six chapters There are also new chapters on adult onset asthma and the relationship of asthma to sinusitis A new section on Asthma in Special Circumstances includes chapters on asthma in pregnancy asthma and surgery asthma in the elderly and asthma in the context of critical care In bringing the Second Edition fully up to date the book has inevitably increased in size and is now presented in two volumes The second edition of *Asthma and Rhinitis* will continue the tradition of its predecessor of providing an up to the minute reference for all those involved in the management of and research into asthma and rhinitis

Clinical Asthma Jonathan A. Bernstein, Mark L. Levy, 2025-09-03 Enormous progress in asthma research has been made in the past 50 years including a greater understanding of its complex pathogenesis and new and more effective therapies Consequently the scientific literature has grown vast and can be difficult to integrate With contributions from a distinguished panel of world renowned authors the Second Edition of *Clinical Asthma Theory and Practice* presents a comprehensive study of both the common and the more challenging problems faced by all healthcare personnel who treat patients with asthma The book is divided into seven sections starting with the basics of asthma and ending with a discussion on the approach to asthma worldwide and in the primary care setting Reflecting a strong clinical emphasis each chapter begins with a patient case study supported by essential background information on the basic science and clinical decision making process This is followed by a discussion of clinical evaluation and management The multidisciplinary coverage explores a range of topics including genetics inflammation immunology and the identification of different endotypes Using a bench to bedside approach the book links basic science to the clinical management of asthma and explores options for improvement The carefully selected authorship from experts worldwide presents a truly global outlook

Immunopharmacology David J Webb, 2013-02-18 This new volume of *Advances in Pharmacology* explores the current state of Alzheimer's disease research and therapeutics Chapters cover such topics as the B cell targeted therapies Lymphotoxin family receptors in inflammation and allergic inflammation and thymic stromal lymphopoietin With a variety of chapters and the best authors in the field the volume is an essential resource

for pharmacologists immunologists and biochemists alike Explores the current state of Alzheimer s disease research and therapeutics Chapters cover a variety of topics such as the B cell targeted therapies lymphotoxin family receptors in inflammation and allergic inflammation and thymic stromal lymphopoietin With the best authors in the field the volume is an essential resource for pharmacologists immunologists and biochemists alike

Immune maturation and modulation in childhood allergies Johanna Huoman,2020-10-15 The prevalence of allergic diseases has in the past century increased among children in affluent societies Underlying causes are incompletely disentangled but decreased diversity in environmental and microbial exposures could drive allergy development Allergic individuals possess imbalanced immune responses skewed in favour of Th2 cells along with lesser Th1 and Treg responses As allergy development early in life increases the risk of developing further allergic manifestations later early prevention is key Thus interventions in pregnancy early life and childhood may modulate immunity towards tolerance although underpinnings of immune maturation and modulation in allergy prevention throughout childhood are not entirely understood In this thesis these questions are addressed in children with a high propensity of developing allergic disease or who already have manifested allergies Chemokines are crucial for immune cell recruitment to the allergic reaction site and associate with allergy development in childhood In Paper I circulating levels of the allergy related chemokines CCL17 CCL18 CCL22 CXCL10 and CXCL11 were studied in the natural course of allergic disease Elevated levels of the Th2 Treg regulated chemokine CCL18 in infancy and childhood associated with development of asthma and or sensitisation Moreover this finding conferred higher odds of developing asthma and sensitisation from early school age until adolescence Additionally increased levels of the Th1 associated chemokines CXCL10 after birth and decreased levels of CXCL11 at birth preceded asthma development later in life Hence Paper I showed that circulating chemokine levels in different ways precede allergy development Epigenetic modifications such as DNA methylation comprise a link between the genetic setup and environmental exposures and regulate processes such as Th cell differentiation Perinatal treatment with Lactobacillus reuteri and 3 fatty acids prevent development of some IgE mediated manifestations However the drivers of the immunostimulating and pro resolving effects of these treatments are sparsely examined In Papers II and III epigenome wide DNA methylation patterns in CD4 cells upon pre and postnatal L reuteri supplementation alone or in combination with 3 fatty acids were studied In Paper II the greatest epigenome wide differential methylation was evident at birth mainly directed towards hypomethylation indicating transcriptional availability of affected genes Network analyses revealed several immune related pathways and a relationship of differentially methylated genes to allergy development Thus prenatal L reuteri treatment seemingly poises Th cells towards immune activation at birth possibly influencing immune maturation as well as allergy development in the child In Paper III epigenome wide DNA methylation patterns were surveyed at birth In this on going trial mothers are treated during the latter half of pregnancy with a combination of L reuteri and 3 fatty acids Four different treatment groups were studied

and the largest differential methylation was seen in the double active treatment group. In contrast to Paper II most CpGs and genes were hypermethylated indicating repressed gene transcription. In line with Paper II network analyses showed that T cell and immune mediated pathways were affected by treatment and synergistic effects of the double treatment were indicated. Taken together prenatal treatment with *L. reuteri* and/or 3 fatty acids altered the epigenome to different extents at birth mainly towards hypermethylation and often affected immune related pathways. Immunomodulatory effects of sublingual immunotherapy in children and adolescents are scarcely investigated. In Paper IV circulating and salivary immune mediators were investigated in timothy grass pollen allergic children treated with sublingual immunotherapy. Actively treated children had elevated levels of timothy grass pollen specific IgA antibodies in saliva along with increased circulating levels of the Th1 associated chemokines CXCL10 and CXCL11 both after treatment ending and two years later. Taken together sublingual immunotherapy modulates local and peripheral immune responses in children with timothy grass pollen induced allergy by augmenting Th1 responses lessening Th2 responses and inducing immunomodulatory responses suggesting induction of tolerance also partly in the long term. Altogether the studies in this thesis have shown altered immune regulation in children developing allergies. Moreover immunomodulatory effects of prenatal treatment with probiotics and 3 fatty acids and sublingual immunotherapy in children with grass pollen induced allergic disease were revealed. DNA methylation patterns and immunologic mediators in blood and saliva could potentially serve as appropriate biomarkers for allergic disease. Long term health benefits can be reached by intervening early in life and further knowledge about the mechanisms behind this could promote the prevention of allergic diseases and hence improve the quality of life for children and adolescents.

Förkomsten av allergiska sjukdomar som biverkseksem, hosta och astma har under det senaste hundra åren ökat markant bland barn i industrialiserade samhällen. De bakomliggande orsakerna är inte helt klarlagda men samhällsförändringar har minskat vår dagliga exponering för bakterier, virus och parasiter. Detta skulle kunna ligga till grund för immunförsvarets felaktiga reaktion mot egentligen ofarliga mikroorganismer som ses vid allergier. Hos allergiska individer är immunförsvaret obalanserat med en relativ överviktnad av det så kallade Th2-svaret gentemot Th1 och de regulatoriska T-celler (Treg) svaret. Allergiska sjukdomar utvecklas ofta tidigt i livet vilket ökar risken för att utveckla vidare allergier senare i livet. Därför är det viktigt att motverka den allergiska marschens framfart tidigt genom förebyggande behandlingar. Ett tillvägagångssätt är att påbörja behandling under graviditeten och tidiga barndomen hos barn med hög risk för att bli allergiska då grunden för immunsystemet läggs redan under fosterlivet. För redan utvecklade allergier är det tekniskt möjligt att omforma dessa immunsvår med immunterapi som kan minska symptom av befintliga allergier samtidigt som det är möjligt att motverka utvecklingen av senare allergier. Det är dock inte helt klarlagt hur immunutvecklingen under barndomen regleras eller hur dessa typer av behandlingar skulle kunna påverka allergiutvecklingen under den perioden. I denna avhandling undersöks immunutvecklingen vid allergiutveckling hos barn och möjliga immunmodulerande förebyggande behandlingar hos barn med genetisk benägenhet att bli allergiska eller

som redan utvecklat allergisk sjukdom. För att celler ska rekryteras till platsen för en allergisk reaktion krävs bland annat signalkemokiner. I det första arbetet undersöktes dessa lockelseämnen i de tidigare studier visat att nivåerna av vissa kemokiner vid födseln förutsäger utvecklingen av allergi hos barn. De allergirelaterade kemokinerna CCL17, CCL18, CCL22, CXCL10 och CXCL11 analyserades i blodprover vid födseln vid 1 och 8 respektive hos barn från en populationsbaserad observationsstudie. Förhållandena av CCL18 ett kemokin under reglering av både Th2 och Treg svar uppmättes vid 1 och eller 8 respektive hos barn som hade astma skilt svarastma och eller var sensibiliserade. De nivåerna associerade också till högre odds för utveckling av astma från tidig skolålder upp till vuxen ålder med liknande resultat för sensibilisering. Den nivåerna av de Th1 associerade kemokinerna CXCL10 efter födseln och minskade nivåerna av CXCL11 vid födseln förregick utvecklingen av astma senare i livet. Det första arbetet visade alltså på att cirkulerande kemokiner på olika vis förreg utvecklingen av allergier hos barn och ungdomar. Som länk mellan arv och miljö är så kallade epigenetiska modifieringar vilka reglerar genaktiviteten utan att förändra den genetiska koden i arvsmassan. Till dessa modifieringar räknas DNAmetylering en process som bland annat styr utmognad av de allergirelaterade Th1-parcellerna. Vi har i tidigare separata studier med den probiotiska stammen *Lactobacillus reuteri* och omega 3 behandling visat förbyggnad av vissa IgE medierade allergier. Vad som förklarar de immunstimulerande och immunmodulerande effekterna av behandlingarna är dock otillräckligt undersökt. I det andra och tredje arbetet undersöktes hur *L. reuteri* separat eller i kombination med omega 3 fettsyror påverkar DNAmetyleringsnivåer i CD4 Th celler hos barn som behandlats före och efter födseln. I det andra arbetet undersöktes DNAmetyleringsnivåer både lokalt och i hela genomet vid födseln ett och två respektive. Behandling med *L. reuteri* förändrade DNAmetyleringsnivåer i allergirelaterade Th1-parceller mest vid födseln mot så kallad hypometylering vilket pekar på betydelsen av generna för proteinuttryck. Vidare i tverksanalyser visade att flera immunrelaterade processer påverkades av behandlingen. Därtill var generna från nätverket till stor del associerade med allergiutveckling. Maternell behandling med *L. reuteri* under den sista graviditetsmånaden tycks alltså förändra DNAmetyleringsnivåer i Th1-parceller hos fostret mot betydande immunaktivering vid födseln vilket i sin tur skulle kunna påverka både immunutmognad och allergiutveckling hos barnet. I likhet med det andra arbetet undersöktes i det tredje arbetet DNAmetyleringsnivåer i hela epigenomet fast endast vid födseln. I denna pågående studie behandlas mödrarna under den andra halvan av graviditeten med en kombination av *L. reuteri* och omega 3 fettsyror. Fyra olika behandlingsgrupper undersöktes och den största förändringen i DNAmetylering terfanns i den kombinerade aktiva behandlingsgruppen. I motsats till det andra arbetet var dock de flesta CpG positionerna och generna hypermetylerade vilket tyder på att genernas tillgänglighet för proteinuttryck hölls i linje med det andra arbetet framkom T cells och immunrelaterade signalvägar i nätverksanalyser på dessa gener och det fanns indikationer på synergistiska effekter mellan behandlingarna. Det tredje arbetet visade att behandling med *L. reuteri* och eller omega 3 fettsyror under senare delen av graviditeten förändrar Th1-parcellernas epigenom i olika grad från mest mot hypermetylering och ofta påverkar immunrelaterade signalvägar. Relevansen av dessa fynd

kommer i framtida studier att undersöka proteinnivå och i relation till allergiutveckling. Med allergenspecifik immunterapi är det möjligt att modulera immunsvaret hos allergiska individer mot ett tolerant immunsvaret men effekter av sublingual immunterapi på immunförsvaret hos barn och ungdomar är knapphändigt undersökta. I det fjärde arbetet undersöks olika immunologiska mediatorer i blod och saliv hos barn med gräspollenallergi som deltagit i en studie med sublingual immunterapi. Nivåerna av allergirelaterade cytokiner och kemokiner undersöks i blodprover före inklusionstillfället efter tre år med behandling samt två år efter avslutad behandling i plasmaprover och allergenstimulerade blodceller. Dessutom mättes total IgA sekretoriskt IgA och gräspollensspecifikt IgA i saliv vid samma tillfällen. Barn som fått aktiv behandling hade högre nivåer av gräspollensspecifika IgA antikroppar i saliv både under behandlingen avslutades och två år efter. Därtill ökade nivåerna av de Th1 associerade kemokinerna CXCL10 och CXCL11 i blodet vid samma tidpunkter. Sammantaget visade resultaten från det fjärde arbetet att behandlingen med sublingual immunterapi hos barn med gräspollenallergi modulerar immunsvaret både lokalt och i cirkulationen genom att öka Th1 svar minska Th2 svar och inducera immunreglerande svar vilket indikerar att tolerans har utvecklats hos dessa barn delvis vid pågående sjukdom. Sammanfattningsvis har studierna i denna avhandling visat på förändrad immunreglering hos barn som utvecklar allergi. Dessutom påvisades immunmodulerande effekter av prenatal behandling med probiotika och omega 3 fettsyror samt av sublingual immunterapi hos barn med gräspollenallergi. DNA metyleringsmönster och immunologiska mediatorer i blod och saliv skulle kunna fungera som möjliga biomarkörer för allergisk sjukdom vilket är ett viktigt led i att kunna förstå allergiutveckling och förbättra den kliniska behandlingen av allergier bland barn och ungdomar. Längsiktiga hälsoeffekter kan uppnås genom att ingripa tidigt i livet och vidare kunskap om mekanismerna bakom detta skulle kunna förbättra rebyggandet av allergiska sjukdomar och således kunna förbättra livskvaliteten för barn och ungdomar.

Inflammatory Diseases Mahin Khatami, 2012-02-10 This book is a collection of comprehensive reviews contributed by experts in the diverse fields of acute and chronic inflammatory diseases with emphasis on current pharmacological and diagnostic options. Interested professionals are also encouraged to review the contributions made by experts in a second related book entitled *Inflammation, Chronic Diseases and Cancer* it deals with immunobiology, clinical reviews and perspectives of the mechanisms of immune inflammatory responses that are involved in alterations of immune dynamics during the genesis, progression and manifestation of a number of inflammatory diseases and cancers as well as perspectives for diagnosis and treatment or prevention of these disabling and potentially preventable diseases particularly for the growing population of older adults around the globe. *The Encyclopedia of Natural Medicine Third Edition* Michael T. Murray, Joseph Pizzorno, 2012-07-17 The most comprehensive and practical guide available to the extraordinary healing powers of natural medicine. From the world renowned naturopathic doctors and bestselling authors of *The Encyclopedia of Healing Foods* comes the authoritative third edition of the classic reference work, revised and expanded to include the latest cutting edge natural therapies for the most common ailments. Michael Murray and Joseph Pizzorno focus on promoting health

and treating disease with nontoxic natural therapies This groundbreaking book the leader in its field shows you how to improve your health through a positive mental attitude a healthy lifestyle a health promoting diet and supplements along with plenty of practical tips Murray and Pizzorno present an evidence based approach to wellness based on firm scientific findings They aim to dispel the notion that natural medicine isn't real medicine offering examples and studies that show the efficacy of a holistic approach to patient care This book grounds the reader in the seven major tenets of natural medicine and covers important topics in health care today including cancer prevention detoxification and internal cleansing Written in an easy to follow A Z format The Encyclopedia of Natural Medicine offers holistic approaches for treating more than 80 common ailments including diabetes celiac disease endometriosis and more Furthermore it gives you Ways to prevent disease through enhancing key body systems The major causes and symptoms of each condition The therapeutic considerations you need to be aware of Detailed treatment summaries that include the most effective nutritional supplements and botanical medicines And much more This groundbreaking text is a perfect introduction to the world of natural medicine providing clear guidance in the use of the best natural remedies for all kinds of illnesses big and small The Encyclopedia of Natural Medicine is a valuable health reference and essential reading for anyone seeking to better their health

DID YOU KNOW A cancer related checkup is recommended every 3 years for people aged 20 to 40 and every year for people aged 40 or older A high dietary intake of vitamin C has been shown to significantly reduce the risk of death from heart attacks and strokes as well as all other causes including cancer Many clinical and experimental studies have clearly demonstrated that stress personality attitude and emotion are etiologic or contributory in suppressing the immune system as well as leading to the development of many diverse diseases Regular exercise has been demonstrated to provide benefit to individuals with immunodeficiency diseases particularly through stress alleviation and mood enhancement Melatonin exerts significant anticancer effects especially against breast cancer Vitamin E not only improves insulin action it also exerts a number of beneficial effects when taken at dosages ranging from 400 to 800 IU which may aid in preventing the long term complications of diabetes Find out all of this and more in The Encyclopedia of Natural Medicine

Safe and Simple Food Allergy Prevention Malina Malkani, MS RDN CDN, 2024-11-12 Starting with your baby's first bite reduce the risk of food allergies and make mealtimes easy and fun with dietitian approved tips and 80 family friendly recipes How you feed your baby during infancy can lower the risk that they will develop food allergies as they grow Starting solids with simple wholesome finger foods and offering baby friendly versions of common allergens like peanuts and eggs early and often helps encourage self feeding early motor skills and lifelong adventurous eating From the author of Simple Safe Baby Led Weaning this accessible practical guide to starting solids will empower you to safely introduce top allergens navigate existing food allergies and intolerances engage your baby in family meals and build a balanced baby meal from recipes the whole family will enjoy With easy to follow tips from pediatric dietitian and infant feeding expert Malina Linkas Malkani this comprehensive handbook includes A flexible 9 day

road map for safely introducing top allergens Practical advice for navigating food allergies intolerances and sensitivities 8 weeks of meal plans to help ensure your baby is exposed to top allergens frequently 80 nutritious recipes to make meal prep simple and satisfy the whole family Guidance on balancing finger foods purees and breast milk and or formula Tips to encourage your baby s oral motor development palate expansion caregiver bonding fine motor skill advancement and more Safe Simple Food Allergy Prevention will help you sail through the process of starting solids and introducing allergens streamline your approach to mealtimes and feed your family with confidence and ease

Rhinology and Facial Plastic Surgery Fred J. Stucker,Chris de Souza,Guy S. Kenyon,Timothy S. Lian,Wolfgang Draf,Bernhard Schick,2009-03-28 Georg von Bekesey was awarded the Nobel Prize for his seminal everyone all over the world In other words it is directed toward work on hearing It was however 43 years later in 2004 that evolving a common scientific language that is spoken uniformly Linda Buck and Richard Axel were awarded the Nobel Prize for and consistently all over the world Universality so that norms their work on olfaction This is indicative of how the science of staging systems etc can be applied anywhere in the world with rhinology is only now coming into its own For quite some time equal validity This can only be achieved through consensus rhinology was thought to be limited in scope It is now appreciated that the nose is not only an organ of aesthetic appeal but rhinologic disease but also what all surgeons want and that is one that carries out several important complex functions The operative steps to bring about successful resolution of disease tremendous surge in medical literature in recent times bears with the return of normal function

Management of Food Allergens Jacqueline Coutts,Richard Fielder,2009-07-15 One of the greatest challenges facing the food industry is providing safe food to an ever increasing number of allergic consumers through a global supply chain Approximately 2-4% of western adults and up to 10% of children are currently thought to be sensitive to food allergens and the issue is of major commercial significance to food manufacturers The market for free from foods has grown dramatically in recent years and the demand for gluten and dairy free foods shows no sign of abating in the foreseeable future This volume provides an overview of the safe management of food allergens aiming to help all those with a vested interest in understanding how to protect consumer health through good manufacturing practice and clear labelling advice It examines the risk management systems and practices being adopted by the food industry to tackle the growing hypersensitivity of consumers to a range of food proteins The various aspects of the subject are addressed from a range of perspectives including that of researcher food manufacturer enforcement officer clinician and consumer There will be an emphasis on the scientific analysis of food and environmental samples and their use in verifying in process controls and finished product labelling claims The book is directed at food scientists and technologists based in industry and research quality assurance personnel clinicians and public health officials

Brunner & Suddarth's Textbook of Medical-surgical Nursing Suzanne C. O'Connell Smeltzer,Brenda G. Bare,Janice L. Hinkle,Kerry H. Cheever,2010 Preparing students for successful NCLEX results and strong futures as nurses in today s world Now in its 12th

edition Brunner and Suddarth's Textbook of Medical Surgical Nursing is designed to assist nurses in preparing for their roles and responsibilities in the medical surgical setting and for success on the NCLEX. In the latest edition the resource suite is complete with a robust set of premium and included ancillaries such as simulation support adaptive testing and a variety of digital resources helping prepare today's students for success. This leading textbook focuses on physiological pathophysiological and psychosocial concepts as they relate to nursing care. Brunner is known for its strong Nursing Process focus and its readability. This edition retains these strengths and incorporates enhanced visual appeal and better portability for students. Online Tutoring powered by Smarthinking. Free online tutoring powered by Smarthinking gives students access to expert nursing and allied health science educators whose mission like yours is to achieve success. Students can access live tutoring support critiques of written work and other valuable tools.

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