

Delivery mode

Genetics

Age

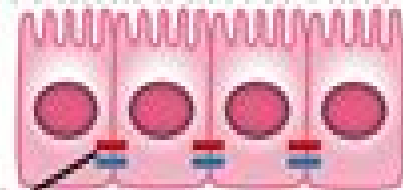
Antibiotics

Exercise

Dietary habit

Stress

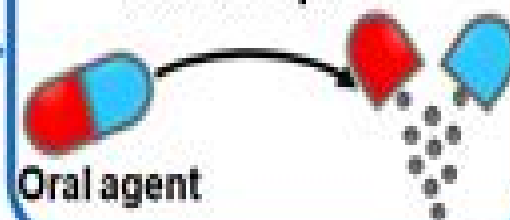
Intestinal barrier function



Tight junctions

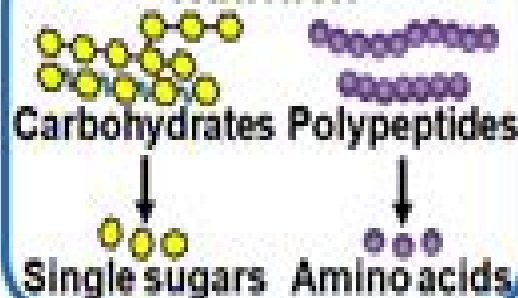
Intestinal epithelial cells

Drug metabolism
& absorption



Oral agent

Nutrition



Carbohydrates

Polypeptides

Single sugars

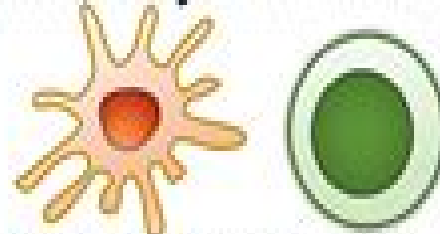
Amino acids

Gut microbiota

Protection against
infections



Immune system function



Dendritic cell

T cell

Metabolism



Short-chain fatty acids

Energy source

Glucose & lipid metabolism

Effects Of Microbes On The Immune System

M Planty



Effects Of Microbes On The Immune System:

Effects of Microbes on the Immune System Madeleine W. Cunningham, Robert S. Fujinami, 2000 Written by the foremost leaders in immunologic research this volume is a definitive text on the ways in which bacteria viruses parasites and fungi affect the immune response in the host The book synthesizes recent discoveries on the various mechanisms by which microbes subvert the immune response and on the role of these immunologic mechanisms in the pathogenesis of infectious diseases Each chapter examines a particular group of infectious pathogens and focuses on the immunobiology of the disease A separate section explores potential vaccines for mucosal or conventional delivery

Immunobiotics: Interactions of Beneficial Microbes with the Immune System Julio Villena, Haruki Kitazawa, 2018-01-26 The term immunobiotics has been proposed to define microbial strains able to beneficially regulate the mucosal immune system Research in immunobiotics has significantly evolved as researchers employed cutting edge technologies to investigate the complex interactions of these beneficial microorganisms with the immune system During the last decade our understanding of immunobiotics host interaction was profoundly transformed by the discovery of microbial molecules and host receptors involved in the modulation of gut associated immune system as well as the systemic and distant mucosal immune systems In recent years there has been a substantial increase in the number of reports describing the beneficial effects of immunobiotics in diseases such as intestinal and respiratory infections allergy inflammatory bowel disease obesity immunosuppression and several other immune mediated conditions Evidence is also emerging of immunobiotics related molecules with immunomodulatory functions leading to the production of pharmabiotics which may positively influence human or animal health Therefore research in immunobiotics continue to contribute not only to food but also medical and pharmaceutical fields The compilation of research articles included in this ebook should help reader to have an overview of the recent advances in immunobiotics

Immune Consequences of Trauma, Shock, and Sepsis Eugen Faist, John L. Ninnemann, Douglas R. Green, 2012-12-06 Sepsis and infection are the major enemies of the intensive care patient in whom immunological defenses are severely impaired This major problem is the focus of attention in this book based on the presentation of the First International Congress on the Immune Consequences of Trauma Shock and Sepsis which is one of the first attempts to exchange ideas on the state of the art in this area of immunology Both basic and clinical research including new centres of attention are described The growing role of immunology in medicine opens new avenues to the understanding of trauma and sepsis and will allow the design of novel therapeutic approaches

GI Microbiota and Regulation of the Immune System Gary B. Huffnagle, Mairi Noverr, 2009-03-07 This book covers current trends in the investigation of GI microbiota It examines the relationship between the microbiota and the immune system from a variety of angles

Host and Microbe Adaptations in the Evolution of Immunity Larry J. Dishaw, Gary W. Litman, 2019-12-31 The evolution of metazoans has been accompanied by new interfaces with the microbial environment that include biological

barriers and surveillance by specialized cell types Increasingly complex organisms require increased capacities to confront pathogens achieved by co evolution of recognition mechanisms and regulatory pathways Two distinct but interactive forms of immunity have evolved Innate immunity shared by all metazoans is traditionally viewed as simple and non specific Adaptive immunity possesses the capacity to anticipate new infectious challenges and recall previous exposures the most well understood example of such a system exhibited by lymphocytes of vertebrates is based on somatic gene alterations that generate extraordinary specificity in discrimination of molecular structures Our understanding of immune phylogeny over the past decades has tried to reconcile immunity from a vertebrate standpoint While informative such approaches cannot completely address the complex nature of selective pressures brought to bear by the complex microbiota including pathogens that co exist with all metazoans In recent years comparative studies and new technologies have broadened our concepts of immunity from a systems wide perspective Unexpected findings e g genetic expansions of innate receptors high levels of polymorphism RNA based forms of generating diversity adaptive evolution and functional divergence of gene families and the recognition of novel mediators of adaptive immunity prompt us to reconsider the very nature of immunity Even fundamental paradigms as to how the jawed vertebrate adaptive immune system should be structured for optimal recognition potential have been disrupted more than once e g the discovery of the multicenter organization and germline joining of immunoglobulin genes in sharks gene conversion as a mechanism of somatic diversification absence of IgM or MHC II in certain teleost fishes Mechanistically concepts of innate immune memory often referred to as trained memory have been realized further with the development of new discoveries in studies of epigenetic regulation of somatic lineages Immune systems innovate and adapt in a taxon specific manner driven by the complexity of interactions with microbial symbionts commensals mutualists and pathogens Immune systems are shaped by selective forces that reflect consequences of dynamic interactions with microbial environments as well as a capacity for rapid change that can be facilitated by genomic instabilities We have learned that characterizing receptors and receptor interactions is not necessarily the most significant component in understanding the evolution of immunity Rather such a subject needs to be understood from a more global perspective and will necessitate re consideration of the physical barriers that afford protection and the developmental processes that create them By far the most significant paradigm shifts in our understanding of immunity and the infection process has been that microbes no longer are considered to be an automatic cause or consequence of illness but rather integral components of normal physiology and homeostasis Immune phylogeny has been shaped not only by an arms race with pathogens but also perhaps by mutualistic interactions with resident microbes This Research Topic updates and extends the previous eBook on Changing Views of the Evolution of Immunity and contains peer reviewed submissions of original research reviews and opinions

Microbes Applications and Effects Mr. Sanjeev Pandey, 2024-08-16 Explores the beneficial and harmful effects of microorganisms in industries medicine agriculture and the environment highlighting their

applications in biotechnology 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

Microbes, Microbial Metabolism and Mucosal Immunity Tanima Bose, 2024-08-07 Microbes Microbial Metabolism and Mucosal Immunity An Overview presents a concise and well vetted treatise on the study of microbiome and microbial metabolites This volume is up to date with the most recent developments from the last decade It encompasses the interaction of immunity and microbes and their metabolites from different mucosal organs including gastrointestinal system lung oral cavity eye Along with the efficiency of the immune system in inhibiting the growth and proliferation of microbes the volume discusses how the mediators of the immune system can be targeted to develop therapies This book presents the latest methods gives broad and systematic coverage of most mucosal systems and diseases and takes a fresh perspective that looks at the functional aspects of change in the microbiome The study of microbiome and microbial metabolites and their roles in host mucosal immunology is a rapidly developing area of research One major way in which the microbiome influences the host is through altered metabolism Metabolites readily available to the host engender significant consequences Microbial metabolites have been shown to impact the disease processes in both proximal and distal organs including the brain in several neurocognitive disorders Offers a concise solution for the study of microbiome microbial metabolism and mucosal immunology Presents contemporary studies that incorporate the latest research methods Gives a broad and systematic accounting of most mucosal systems and diseases Looks at the functional aspects of changes to the microbiome as well as specific changes to microbiota Affords entry level and advanced readers with the theory and knowledge needed for further research *Impact of Early Life Nutrition on Immune System Development and Related Health Outcomes in Later Life*

Laxmi Yeruva, Daniel Munblit, Maria Carmen Collado, 2021-05-28 **Shaping of Human Immune System and Metabolic Processes by Viruses and Microorganisms** Marina I. Arleevskaya, Rustam Aminov, Wesley H. Brooks, Gayane Manukyan, Yves Renaudineau, 2019-08-15 Recent advances in the understanding of microbiota in health and diseases are presented in this special issue of Frontiers in Immunology and Frontiers in Microbiology as well as their impact on the immune system that can lead to the development of pathologies Potential perspectives and biomarkers are also addressed We offer this Research Topic involving 64 articles and 501 authors to discuss recent advances regarding 1 An overview of the human microbiota and its capacity to interact with the human immune system and metabolic processes 2 New developments in understanding the immune system s strategies to respond to infections and escape strategies used by pathogens to counteract such responses 3 The link between the microbiota and pathology in terms of autoimmunity allergy cancers and other diseases *Preventing Childhood Asthma: the Neglected Impact of Existing Public Health Interventions* David

Michael Patrick, Stuart Turvey, Meghan B. Azad, Petra Zimmermann, Angela Dramowski, Hannah Lishman, 2025-06-10

Increasing evidence mainly in high income settings where data are often more readily available is showing that antibiotic exposure in early life increases the risk of developing asthma and other allergic conditions likely due to disturbances in the infant's gut microbiome during a foundational time of immunological development thereby predisposing the infant to hyperreactive immunological responses. The method of infant feeding in these first few months of life is a crucial factor to consider as early evidence shows not only that breastmilk is optimal for growth lung development and passive immunological protection it also can act to restore healthy microbial growth in the infant's gut potentially reversing the risk of atopic disease. While indoor and outdoor air pollution is a known trigger for asthmatic episodes in children its role extends to also disrupting the gut microbiome in the first months of life predisposing infants to asthma and allergy later in childhood. Strong antibiotic stewardship promotion of and support for breastfeeding and improved air quality inside and outside of the home are each vital public health efforts in and of themselves to reduce the urgent problem of antibiotic resistance promote healthy development and immunological protection in children and reduce respiratory and cardiovascular disease in the general population respectively. However the additional benefit that they could confer in infants by protecting a healthy and diverse gut microbiome could contribute to reversing the asthma and allergy epidemic seen globally in the last several decades. This reversal is starting to be seen in high income settings however the causal link is not conclusive and more research in animal models and at the population level needs to be done to understand these complex and interplaying early determinants of health. The context specific challenges related to settings where antibiotic stewardship is less apparent breastfeeding is not well supported and or air quality is poor need to be understood. And the policy and cost implications of realizing a potentially enormous additional benefit to existing public health programs need to be analyzed in order to make the case for public health investment where it will be most meaningful.

Bacterial Exotoxins: How Bacteria Fight the Immune System Inka Sastalla, Denise M. Monack, Katharina F. Kubatzky, 2016-10-07 Bacterial pathogenicity factors are functionally diverse. They may facilitate the adhesion and colonization of bacteria influence the host immune response assist spreading of the bacterium by e.g. evading recognition by immune cells or allow bacteria to dwell within protected niches inside the eukaryotic cell. Exotoxins can be single polypeptides or heteromeric protein complexes that act on different parts of the cells. At the cell surface they may insert into the membrane to cause damage bind to receptors to initiate their uptake or facilitate the interaction with other cell types. For example bacterial superantigens specifically bind to major histocompatibility complex MHC II molecules on the surface of antigen presenting cells and the T cell receptor while cytolysins cause pore formation. For intracellular activity exotoxins need to be translocated across the eukaryotic membrane. Gram negative bacteria can directly inject effector proteins in a receptor independent manner by use of specialized needle apparatus such as bacterial type II, III or type IV secretion systems. Other methods of translocation include the phagocytic

uptake of bacteria followed by toxin secretion or receptor mediated endocytosis which allows the targeting of distinct cell types Receptor based uptake is initiated by the binding of heteromeric toxin complexes to the cell surface and completed by the translocation of the effector proteins across the endosomal membrane In the cytosol toxins interact with specific eukaryotic target proteins to cause post translational modifications that often result in the manipulation of cellular signalling cascades and inflammatory responses It has become evident that the actions of some bacterial toxins may exceed their originally assumed cytotoxic function For example pore forming toxins do not only cause cytolysis but may also induce autophagy pyroptosis or activation of the MAPK pathways resulting in adjustment of the host immune response to infection and modification of inflammatory responses both locally and systemically Other recently elucidated examples of the immunomodulatory function of cell death inducing exotoxins include TcdB of *Clostridium difficile* which activates the inflammasome through modification of cellular Rho GTPases or the Staphylococcus d toxin which activates mast cells The goal of this research topic was to gather current knowledge on the interaction of bacterial exotoxins and effector proteins with the host immune system The following 16 research and review articles in this special issue describe mechanisms of immune modification and evasion and provide an overview over the complexity of bacterial toxin interaction with different cells of the immune system

Immunomodulatory effects of probiotic supplementation during pregnancy and infancy in allergy prevention studies Anna Forsberg, 2017-10-26 The incidence of allergic diseases is increasing possibly due to a reduced intensity and diversity of microbial stimulation More knowledge is needed on the immunological mechanisms underlying the eczema preventive effect of pre and postnatal probiotic supplementation The pregnancy period seems to be of essential importance since both epidemiological and experimental animal studies show the importance of microbial exposure during gestation on allergy prevention We have performed a study where the probiotic lactic acid producing bacteria *Lactobacillus reuteri* was supplemented to pregnant women at risk of having an allergic infant The pregnant mothers received the study product from gestational week 36 until delivery and the infants then continued with the same product until one year of age The probiotic as compared with placebo supplemented infants had less IgE associated eczema at two years of age In order to investigate how the supplementation affected the immune system peripheral blood was collected and immune cells were stimulated with common allergens and TLR ligands The probiotic treated group responded with a more regulated response to allergens and TLR2 ligands in comparison to the placebo supplemented group We also investigated how the probiotic supplementation affected the epigenetic methylation pattern in circulating T helper cells during infancy observing the most pronounced effects at birth In a follow up study supplementation was started earlier to possibly gain a stronger allergy preventive effect via changes in maternal immune regulation Supplementation with *Lactobacillus reuteri* and 3 fatty acids started at gestational week 20 and throughout pregnancy After 20 weeks of supplementation some immunomodulatory effects among circulating activated regulatory T cells and a subpopulation of

monocytes were noted Several systemic immune modifying effects of pregnancy were observed In summary probiotics show several immunomodulatory effects in infants and pregnant women However more research is needed to better understand the effects of the probiotic supplementation to aid future identification of more efficacious allergy preventive strategies

Modulation of the immune system by bacteria: from evasion to therapy Marina De Bernard, Maria

Kaparakis-Liaskos, Mario M. D'Elios, 2023-04-10 **Probiotic Bacteria and Their Effect on Human Health and Well-Being** A. Guarino, E. M. M. Quigley, W. A. Walker, 2013-04-29 Our microflora is an individual personal feature providing a distinct tag to individuals However our intestinal microbiome is strongly affected by genetic nutritional and other external factors and evolves with age An effect of different microbial patterns on health appears very likely as there seem to be specific changes of intestinal microflora associated with various diseases Specific microbial tags may thus be used as biomarkers of disease to diagnose it to monitor its evolution and eventually to predict its response to treatment This scenario opens the opportunity for targeting intestinal microflora using probiotics both for prevention and treatment of an increasing number of conditions Probiotic therapy is applied either as an adjunct to other treatments or as primary therapy and evidence of efficacy is accumulating in several conditions affecting either the intestine or nonintestinal organs This publication provides an update on probiotics directed at physicians biologists biotechnologists and researchers working in the food industry and agriculture as well as in the environmental and basic sciences **The Rasputin Effect: When**

Commensals and Symbionts Become Parasitic Christon J. Hurst, 2016-07-05 This volume focuses on those instances when benign and even beneficial relationships between microbes and their hosts opportunistically change and become detrimental toward the host It examines the triggering events which can factor into these changes such as reduction in the host's capacity for mounting an effective defensive response due to nutritional deprivation coinfections and seemingly subtle environmental influences like the amounts of sunlight temperature and either water or air quality The effects of environmental changes can be compounded when they necessitate a physical relocation of species in turn changing the probability of encounter between microbe and host The change also can result when pathogens including virus species either have modified the opportunist or attacked the host's protective natural microflora The authors discuss these opportunistic interactions and assess their outcomes in both aquatic as well as terrestrial ecosystems highlighting the impact on plant invertebrate and vertebrate hosts **Encyclopedia of Gastroenterology**, 2019-11-06 Encyclopedia of Gastroenterology

Second Edition Four Volume Set provides a comprehensive and concise reference on all aspects of gastroenterology and hepatology including the organs in the gastrointestinal system their functions in health and disease and strategies or procedures to resolve or prevent problems and disease This concise up to date information includes comprehensive sections on the impact of nutrition gastrointestinal microbiota lifestyle commonly used drugs and surgical procedures on health and disease Since the first edition attention to the roles of nutrition and gastrointestinal microorganisms microbiota formerly

Microbiota in health and disease has skyrocketed In addition an entirely new section on obesity and diabetes is included Presents comprehensive coverage of every topic within gastroenterology Offers researchers a one stop fully referenced resource to explore questions Includes teaching tools multimedia and interactive elements Provides readers with multi layered content and a media rich learning resource for both instructors and students Covers hot new topics in GI health and disease including new sections on stem cells intestinal bacteria obesity and intestinal microbiota *Regulating Gut Microbiota by Lactic Acid Bacteria: Effects Based on Probiotic Characteristics and Their Metabolites* Dan Zhao,Renpeng Du ,Li Chen,Fangyi Pei,2024-09-05 Lactic acid bacteria are a type of important probiotic that may be found in a wide range of nutrient rich habitats including food feed soil and organisms like animals as well as plants According to the U S Food and Drug Administration many species of lactic acid bacteria and their metabolites are generally regarded as safe GRAS The most commonly used strains as probiotics spread in genera Lactobacilli Bifidobacterium Lactococcus Enterococcus and Streptococcus They have been shown to enhance intestinal transit balance gut microbiota and preserve the colon s acid base equilibrium which regulates the immune system and lowers serum cholesterol levels *Nutrition, Immunity and Infection* Prakash S. Shetty,2010 This textbook discusses the inter relationships between infections and nutritional status It deals with the fundamentals of the immune function of the human body and the role that nutrition and nutrients play in its optimal functioning The role that infective processes play in the etiology of malnutrition and the relationships between poor nutritional status and risk of infections are described There are chapters describing nutrient deficiencies e g vitamin A and the risk of infections and chapters on specific infections e g TB AIDS and their role in poor nutritional status Specific coverage is given to those people most at risk from infections infants children and the elderly **The Good Gut** Justin Sonnenburg,Erica Sonnenburg,2015-04-21 A fascinating funny and easy to read book about the latest human microbiome discoveries and how these discoveries might help us tend to our inner microbes so as to optimize our overall health Daphne Miller MD author of Farmacology Total health from the Ground Up and The Jungle Effect Virtually every aspect of health and vitality is influenced by the collection of microbes living within us The Good Gut empowers the reader with the opportunity to embrace this leading edge science in an actionable user friendly way David Perlmutter MD and author 1 New York Times Bestseller Grain Brain The Surprising Truth About Wheat Carbs and Sugar Your Brain s Silent Killers The groundbreaking science behind the surprising source of good health Stanford University s Justin and Erica Sonnenburg are pioneers in the most exciting and potentially transformative field in the entire realm of human health and wellness the study of the relationship between our bodies and the trillions of organisms representing thousands of species to which our bodies play host the microbes that we collectively call the microbiota The microbiota interacts with our bodies in a number of powerful ways the Sonnenburgs argue that it determines in no small part whether we re sick or healthy fit or obese sunny or moody The microbiota has always been with us and in fact has coevolved with humans entwining its functions with ours so deeply

the Sonnenburgs show us humans are really composite organisms having both microbial and human parts But now they argue because of changes to diet antibiotic over use and over sterilization our gut microbiota is facing a mass extinction event which is causing our bodies to go haywire and may be behind the mysterious spike in some of our most troubling modern afflictions from food allergies to autism cancer to depression It doesn't have to be this way The Good Gut offers a new plan for health that focuses on how to nourish your microbiota including recipes and a menu plan In this groundbreaking work the Sonnenburgs show how we can keep our microbiota off the endangered species list and how we can strengthen the community that inhabits our gut and thereby improve our own health The answer is unique for each of us and it changes as you age In this important and timely investigation the Sonnenburgs look at safe alternatives to antibiotics dietary and lifestyle choices to encourage microbial health the management of the aging microbiota and the nourishment of your own individual microbiome Caring for our gut microbes may be the most important health choice we can make

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