

Delivery mode

Genetics

Age

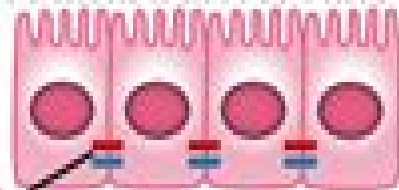
Antibiotics

Exercise

Dietary habit

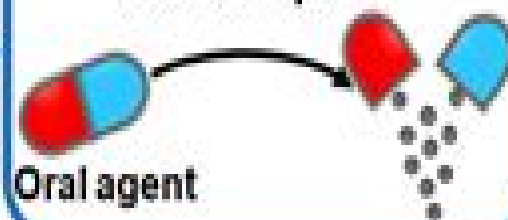
Stress

Intestinal barrier function



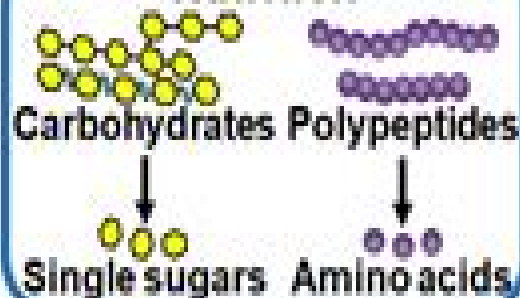
Tight junctions
Intestinal epithelial cells

Drug metabolism
& absorption



Oral agent

Nutrition



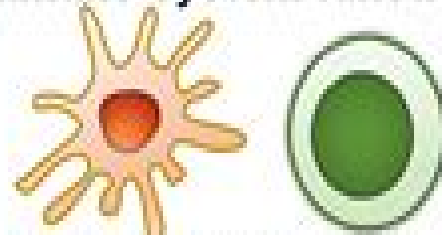
Carbohydrates Polypeptides
Single sugars Amino acids

Protection against
infections



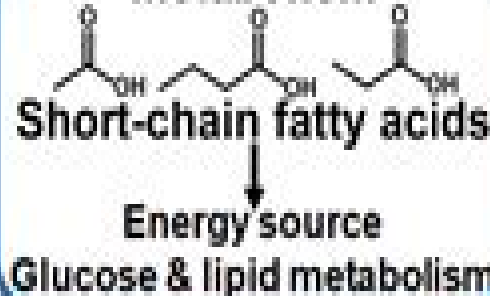
Gut microbiota

Immune system function



Dendritic cell T cell

Metabolism



Short-chain fatty acids

Energy source

Glucose & lipid metabolism

Effects Of Microbes On The Immune System

**Alfredo Guarino, Eamonn M. M.
Quigley, W. Allan Walker**



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

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 *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

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'Elia, 2023-04-10

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

Probiotic Bacteria and Their Effect on Human Health and Well-Being Alfredo Guarino, Eamonn M. M. Quigley, W. Allan Walker, 2013

An update on intestinal microbiota and probiotics 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

Gut Microbiome and Its Impact on Health and Diseases Debabrata Biswas, Shaik O. Rahaman, 2020-08-27 This book provides a comprehensive examination of the role of gut microbiome microflora in nutrition metabolism disease prevention and health issues including farm animal health and food value and human gastrointestinal health and immunity Indigenous microbiotas particularly the gut microflora microbiome are an essential component in the modern concept of human and animal health The diet and lifestyle of the host and environment have direct impact on gut microflora and the patterns of gut microbial colonization associated with health and diseases have been documented Contributing authors cover the impact of gut microbiome in farm animal health and explore the possibility of modulating the human gut microbiome with better animal products to prevent human diseases including endemic and emerging diseases such as obesity cancer and cardiac diseases Dieting plan and control methods are examined with attention paid to balance dieting with natural food and drink components In addition the role of gut microbiota in enteric microbial colonization and infections in farm animals is also discussed The volume also explores the possibility of improving human health by modulating the microbiome with better food including bio active foods and appropriate forms of intake Throughout the chapters authors examine cutting edge research and technology as well as future directions for better practices regarding emerging issues such as the safety and production of organic food

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

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

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 Exploring the Gut

Microbiome in Cancer Zodwa Dlamini, 2024-10-04 This book explores the relationship between the gut microbiome and cancer illuminating various facets from fundamental roles to personalized therapies It provides a comprehensive overview of the impact of the gut microbiome on cancer development offering potential for innovative diagnostic and treatment approaches The book discusses the role of dysbiosis in cancer development the influence of the microbiome on treatment responses and strategies to modulate the microbiome for enhanced therapies It reviews the influence of the gut microbiome on immunotherapy resistance and chemoresistance in cancer patients Additionally the book presents gut microbiome biomarkers for cancer diagnosis and prognosis the implication of the gut brain axis on cancer development and progression and the impact of diet and lifestyle on the microbiome Towards the end the book investigates the role of the gut microbiome in pediatric cancer and provides an outlook on the future challenges technological advancements and ethical considerations of gut microbiome research in the context of personalized cancer therapies This book is intended for cancer researchers medical oncologists clinicians pharmacologists translational investigators and medical students Gut Microbiota and Immunity in Health and Disease: dysbiosis and eubiosis's effects on the human body Payam Behzadi, Veronica I.

Dodero, Servaas Antonie Morré, Sandip K. Wagh, 2025-01-02 The human body gets its balance and homeostasis from the harbored useful microorganisms Indeed the human fetus experiences the first microbial exposure within his/her mother's body During the post partum period an infant gets formed to be inhabited by different types of useful microorganisms e g archaea bacteria fungi and viruses collectively known as the microbiota In particular the evolution of the gut microbiota

throughout life appears to play a pivotal role in both health and disease On the one hand metabolic regulation homeostasis and a strong immune system depend on gut microbiota balance or eubiosis On the other hand gut microbiota dysregulation or dysbiosis is observed in many diseases like diabetes cancers autoimmune diseases inflammatory bowel disorders atherosclerotic cardiovascular diseases kidney diseases neurological disorders e g Alzheimer s and Parkinson s diseases mental health disorders etc Interestingly environmental factors and genetics are involved Therefore the interconnection between host microbiota environments is a fascinating and emerging area of research to understand health and disease

Nutrition and Immunity Maryam Mahmoudi,Nima Rezaei,2019-07-30 This volume provides readers with a systematic assessment of current literature on the link between nutrition and immunity Chapters cover immunonutrition topics such as child development cancer aging allergic asthma food intolerance obesity and chronic critical illness It also presents a thorough review of microflora of the gut and the essential role it plays in regulating the balance between immune tolerance and inflammation Written by experts in the field Nutrition and Immunity helps readers to further understand the importance of healthy dietary patterns in relation to providing immunity against disorders and offering readily available immunonutritional programming in clinical care It will be a valuable resource for dietitians immunologists endocrinologists and other healthcare professionals

Immune system disorders: from molecular mechanisms to clinical implications Mauricio César De Marzi,Marisa Mariel Fernandez,Ruben Dario Motrich ,Matias Ostrowski,2024-10-17 In recent years the increase in knowledge about the functioning of the immune system has revealed not only its importance in the defense against external agents such as pathogens or toxins but also in the control of tumor cells and the importance of the processes of inflammation or immunological tolerance On the one hand all this knowledge has allowed a better understanding of the putative pathogenic consequences of immune system dysfunction which includes inflammatory autoimmune and immunosuppressive diseases among others On the other hand current knowledge about immunoregulation has paved the way to better prevent or control transplantation rejection However such mechanisms underlying immune dysregulation are highly variable depending on the type of pathology systemic chronic inflammatory diseases autoinflammatory diseases autoimmune disorders immunosuppression and on characteristics of the host such as sex genetics nutritional status etc Given the wide variety of pathologies that are a consequence of excessive inefficient or inadequate induction of immune responses the study of factors involved in the dysregulation of the immune system has gained great attention during the last decades

Interaction of Nanomaterials With the Immune System: Role in Nanosafety and Nanomedicine Paola Italiani,Diana Boraschi,Lucio R. C. Castellano,Paulo Bonan,Eliton S. Medeiros,2018-04-10 The immune system has the double role of maintaining tissue integrity and homeostasis and of protecting the organism from possible dangers from invading pathogens to environmentally borne dangerous chemicals New chemicals recognisable by the immune system are engineered nanomaterials nanoparticles new agents in our environment that are becoming common due to their

presence in many products from constructions and building material e g solar cells pigments and paints tiles and masonry materials to daily products e g food packaging cosmetics and cigarettes Human beings can be accidentally exposed to engineered nanomaterials when these are released from products containing them or during production in workplaces Furthermore intentional exposure occurs in medicine as engineered nanoparticles are used as tools for improving delivery of drugs and vaccines vaccine adjuvants and contrast agents in therapeutic preventive and diagnostic strategies Nanoparticles that come in contact with the immune system after unintentional exposure need to be eliminated from the organism as they represent a potential threat In this case however due to their peculiar characteristics of size shape surface charge and persistence nanoparticles may elicit undesirable reactions and have detrimental effects on the immune system such as cytotoxicity inflammation anaphylaxis immunosuppression Conversely nanomedicines need to escape immune recognition elimination and must persist in the organism long enough for reaching their target and exerting their beneficial effects Immune cells and molecules at the body surface airway and digestive mucosae skin are the first that come in contact with nanomaterials upon accidental exposure while immune effectors in blood are those that more easily come in contact with nanomedical products Thus evaluating the interaction of the immune system with nanoparticles nanomaterials is a topic of key importance both in nanotoxicology and in nanomedicine Immuno nanosafety studies consider both accidental exposure to nanoparticles which may occur by skin contact ingestion or inhalation at doses and with a frequency that are not known and medical exposure which takes place with a defined administration schedule route dose frequency Many studies focus on the interaction between the immune system and nanoparticles that for medical purposes have been specifically modified to stimulate immunity or to avoid immune recognition as in the case of vaccine carriers adjuvants or drug delivery systems respectively The aims of this Research Topic is to provide an overview of recent strategies 1 for assessing the immunosafety of engineered nanomaterials nanoparticles in particular in terms of activation of inflammatory responses such as complement activation and allergic reactions based on the nanomaterial intrinsic characteristics and on the possible carry over of bioactive contaminants such as LPS Production of new nanoparticles taking into account their effects on immune responses in order to avoid undesirable effects on one hand and to design particles with desirable effects for medical applications on the other hand 2 for designing more effective nanomedicines by either avoiding or exploiting their interaction with the immune systems with particular focus on cancer diagnosis and therapy and vaccination This collection of articles gives a comprehensive view of the state of the art of the interaction of nanoparticles with the immune system from the two perspectives of safety and medical use and aims at providing immunologists with the relevant knowledge for designing improved strategies for immunologically safe nanomaterial applications

Eukaryome Impact on Human Intestine Homeostasis and Mucosal Immunology Nancy Guillen, 2020-06-01 Multiple demographic or economic parameters contribute to the origin of emerging infections for example poverty urbanization climate change conflicts and population migrations All

these factors are a challenge to assess the impact present and future of parasitic diseases on public health The intestine is a major target of these infections it is a nutrient rich environment harbouring a complex and dynamic population of 100 trillion microbes the microbiome Most researches on the microbiome focus on bacteria which share the gut ecosystem with a population of uni and multi cellular eukaryotic organisms that may prey on them Our interest focuses on the families of eukaryotic microbes inhabiting the intestine called intestinal eukaryome that include fungi protists and helminths Knowledge on the reciprocal influence between the microbiome and the eukaryome and on their combined impact on homeostasis and intestinal diseases is scanty and can be considered as an important emerging field Furthermore the factors that differentiate pathogenic eukaryotes from commensals are still unknown This book presents an overview of the science presented and discussed in the First Eukaryome Congress held from October 16th to 18th 2019 at the Pasteur Institute in Paris This book covers the following topics Phylogenetic prevalence and diversity of intestinal eukaryotic microbes and their still enigmatic historical evolution and potential contributions to mucosal immune homeostasis Integrative biology to study the molecular cell biology of parasite host interactions and the multiple parameters underlining the infectious process The exploitation of tissue engineering and microfluidics to establish three dimensional 3D systems that help to understand homeostasis and pathological processes in the human intestine

Nutritional and Physical Activity Strategies to Boost Immunity, Antioxidant Status and Health, Volume II Mallikarjuna Korivi,Lebaka Veeranjanya Reddy,Arifullah

Mohammed,2022-12-19

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