



Aging



Immune function



(a) Stem cells

Bone Marrow



Lymphoid Myeloid

- ↓ Common lymphoid precursor
- ↑ Myeloid skew
- ↑ HSC pool
- ↓ HSC output

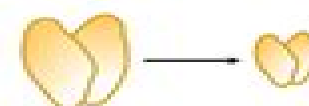
(b) Adaptive immune system

B Cells



- ↑ Marginal zone B cells
- ↓ Antibody diversity
- ↓ Antibody affinity

Thymus



- Thymic involution
- ↓ T-cell production

T Cells

- ↓ Naive T cells
- ↑ Memory T cells
- ↓ Activation
- ↓ CD8⁺ T cells

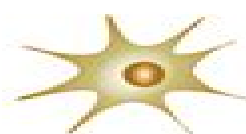


(c) Innate immune system



Neutrophils

- Equivalent Number
- ↓ Function?



Dendritic cells

- ↓ Numbers?
- ↓ Phagocytosis
- ↓ Co-stimulatory molecules

Macrophages

- ↓ Numbers?
- ↓ Phagocytosis?



Natural killer cells

- ↑ Numbers
- ↓ Cytolytic capacity?



Aging And The Immune Function

Vladimir Titorenko



Aging And The Immune Function:

Aging and the Immune Response Edmond A. Goidl, 1987 **The Aging Immune System and Health** Valquiria Bueno, Rafael Solana, Annemieke Boots, 2020-01-15 The world population presents an increased percentage of individuals over 65 years old and the fastest growing subgroup is over 85 years old The increase in life expectancy observed in the last century has not been synonymous with extra years lived in good health disability free years Population studies have shown that as individuals age they can present a great heterogeneity of ability and health Therefore aging has been associated for some individuals with disabilities and hospitalizations Deaths related to infectious pathogens are increased in the aging population mainly due to pneumonia and influenza whereas Cytomegalovirus Epstein Barr virus among other viruses seem to contribute to the low grade inflammatory process observed inflammaging Aging is a complex and multifactorial process in which functions of the organism are adjusted remodelled in order to deal with damaging events during life One of the most important changes in aging individuals occurs in the immune system innate and adaptive responses with consequences such as poor response to new infections and vaccinations increased susceptibility to cancer development and autoimmune diseases frailty and organ dysfunction In addition it has been proposed that immunosenescence not only reflects the aging of the organism but also contributes to this process Bone marrow presents decreased hematopoiesis the thymus undergoes involution and lymphoid organs lymph nodes spleen also present reduced functionality Therefore cells derived matured or residing in these tissues decline in number and function These changes have been identified in experimental models in vitro conditions peripheral blood and biopsies via biomarkers such as cell phenotype stimulus induced proliferation cytokines and antibodies levels Telomere length and telomerase activity also decline in bone marrow derived and peripheral blood cells and have been shown to play a role in immunosenescence More recently the investigation of short non coding RNA molecules microRNAs miRNAs pointed to this system as a possible control of aging related mechanisms Data obtained on these markers for aging individuals could lead to the generation of a marker panel for pathology prediction to indicate interventions and to evaluate the efficacy of interventions Interventions such as nutrition supplements exercise vaccination different dose concentration of antigen adjuvants have been proposed to circumvent age related diseases Considering the heterogeneity in the aging process further investigation is vital before the indication of interventions for aging individuals As the extension of life expectancy is a reality it is a challenge to understand how the aging population copes with the remodelling of the organism and how interventions could provide longevity in good health **Stress, Immunity, and Aging** E. L. Cooper, 2020-07-24 This book contains two personal reminiscences of historical importance to research on stress and infectious disease It deals with perspectives on immunity aging and disease and the prospects for immunorestitution in the treatment of immunodeficiency arising from aging and stress **The Ageing Immune System and Health** Valquiria Bueno, Janet M. Lord, Thomas A. Jackson, 2016-10-03 The present book intends to provide an update on immunosenescence

and how deficiencies in the immune system contribute to a higher susceptibility to infections decline in organ function reduced vaccination responses age related disease and the ageing process itself negatively affecting longevity Our focus is on the main changes in immune system cells and their products occurring during the ageing process and the possible consequences for health and disease This includes discussion of the modulatory and or suppressive mechanisms associated with the alterations in T regulatory cells B regulatory cells and Myeloid Derived Suppressor cells changes in the immune system observed in chronic neurodegenerative diseases cancer lung disease and frailty will also be discussed Most importantly we provide recent literature information about possible interventions focusing on physical activity that could alleviate the negative effects of immunosenescence The Ageing Immune System and Health is a comprehensive guide on the field intended to all physicians researchers professors and students interested on relationship between immune system ageing and health

Immunology of Aging Ahmad Massoud,Nima Rezaei,2013-11-29 The rapidity of scientific progress over the last few years guarantees the utility of this new collection of state of the art reviews on the immunology of aging which is the result of extensive collaboration of more than sixty of the greatest thinkers and scholars in the field in cooperation with a number of junior colleagues The book summarizes current knowledge on the cellular and molecular aspects of the aging immune system and their clinical relevance providing insights into the effects of the aging process on susceptibilities to those diseases most common among elders The retrieval strategies used to slow down the decline in the immune system in the elderly are another subject detailed extensively By providing a broad overview of immunosenescence and its consequences as well as their potential modulation this book will fill a gap in a timely manner It will be of value to all immunologists whether novice or experienced as well as geriatricians and epidemiologists

Aging and Age-Related Disorders From Molecular Mechanisms to Therapies Vladimir Titorenko,2019-08-19 Aging of unicellular and multicellular eukaryotic organisms is a convoluted biological phenomenon which is manifested as an age related functional decline caused by progressive dysregulation of certain cellular and organismal processes Many chronic diseases are associated with human aging These aging associated diseases include cardiovascular diseases chronic obstructive pulmonary disease chronic kidney disease diabetes osteoarthritis osteoporosis sarcopenia stroke neurodegenerative diseases including Parkinson s Alzheimer s and Huntington s diseases and many forms of cancer Studies in yeast roundworms fruit flies fishes mice primates and humans have provided evidence that the major aspects and basic mechanisms of aging and aging associated pathology are conserved across phyla The focus of this International Journal of Molecular Sciences Special Issue is on molecular and cellular mechanisms diagnostics and therapies and diseases of aging Fifteen original research and review articles in this Special Issue provide important insights into how various genetic dietary and pharmacological interventions can affect certain longevity defining cellular and organismal processes to delay aging and postpone the onset of age related pathologies in evolutionarily diverse organisms These articles outline the most important unanswered questions and directions for future

research in the vibrant and rapidly evolving fields of mechanisms of biological aging aging associated diseases and aging delaying therapies

Aging Shamim I. Ahmad, 2017-10-30 This book is a detailed and comprehensive synthesis of the scientific study of aging Dozens of contributions from leading scholars review various theories of aging and molecular cellular biochemical and microbial aspects of aging among just a few of the topics included Authoritative wide ranging and thorough this book will act as a source for experimental design a comprehensive description of age related diseases and provide information of the latest molecular theories underlying their causes Additionally it will target industries involved in developing anti aging drugs post graduate medical students and university libraries

Aging And Immunity Winston Cellini, AI, 2025-03-12 Aging and Immunity explores the science behind immunosenescence the decline in immune function as we age and offers strategies to mitigate its effects Did you know that as we age the thymus gland shrinks reducing T cell production a vital component of immune response The book highlights how this weakening of the immune system increases susceptibility to infections and diminishes vaccine effectiveness for older adults It emphasizes that while immune aging is inevitable lifestyle factors like nutrition exercise and stress management play a crucial role in maintaining immune health and promoting healthy aging The book uniquely addresses immunosenescence by examining its mechanisms the impact of lifestyle choices and practical interventions It adopts an accessible approach drawing from immunology gerontology and nutrition science to explain complex concepts Progressing from basic immunology principles to specific interventions like targeted supplementation Aging and Immunity empowers readers with actionable knowledge to boost their immune function and improve overall well being

Aging Victor R Preedy, 2014-03-06 Aging Oxidative Stress and Dietary Antioxidants bridges the trans disciplinary divide and covers in a single volume the science of oxidative stress in aging and the potentially therapeutic use of natural antioxidants in the diet or food matrix The processes within the science of oxidative stress are described in concert with other processes such as apoptosis cell signaling and receptor mediated responses This approach recognizes that diseases are often multifactorial and oxidative stress is a single component of this Gerontologists geriatricians nutritionists and dieticians are separated by divergent skills and professional disciplines that need to be bridged in order to advance preventative as well as treatment strategies While gerontologists and geriatricians may study the underlying processes of aging they are less likely to be conversant in the science of nutrition and dietetics On the other hand nutritionists and dietitians are less conversant with the detailed clinical background and science of gerontology This book addresses this gap and brings each of these disciplines to bear on the processes inherent in the oxidative stress of aging Nutritionists can apply information related to mitochondrial oxidative stress in one disease to diet related strategies in another unrelated disease Dietitians can prescribe new foods or diets containing anti oxidants for conditions resistant to conventional pharmacological treatments Dietitians after learning about the basic biology of oxidative stress will be able to suggest new treatments to their multidisciplinary teams Nutritionists and dietitians will gain an understanding of cell

signaling and be able to suggest new preventative or therapeutic strategies with anti oxidant rich foods Aging Harry R. Moody, Jennifer R. Sasser, 2017-01-12 Presenting current research in an innovative text reader format Aging Concepts and Controversies Ninth Edition encourages students to become involved and take an informed stand on the major aging issues we face as a society Not simply a summary of research literature Harry R Moody and Jennifer R Sasser s text focuses on controversies and questions rather than on assimilating facts or arriving at a single correct view about aging and older people Drawing on their extensive expertise the authors first provide an overview of aging in three domains aging over the life course health care and the socioeconomic aspects of aging Each section is followed by a series of edited readings offering different perspectives from experts and specialists on that subject New readings focus on whether current federal spending on the elderly is sustainable and fair to other groups how older consumers are reshaping the business landscape and the challenges of marketing and selling to customers 60 and over More emphasis is placed on how social class and inequality earlier in life can shape our final years and the number of older Americans living in poverty The section on Aging and Health Care has been thoroughly updated to reflect the latest data about chronic diseases that affect the elderly government spending on health care and policy changes to programs like Medicaid and Medicare The section on the Social and Economic Outlook for an Aging Society gives the most current picture of the racial and ethnic diversity of older Americans their participation in the labor force and their income and wealth

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