

On the Immunological Theory of Aging

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Abstract

Aging is a complex phenomenon the cause of which is not fully understood, despite the plethora of theories proposed to explain it. As we age, changes in essentially all physiological functions, including immunity, are apparent. Immune responses decrease with aging, contributing to the increased incidence of different chronic diseases with an inflammatory component (sometimes referred to as 'inflamm-aging'). It is clear from many studies that human longevity may be influenced by these changes in the immune system, but how they proceed is not clearly determined. In this chapter, we will review the age-related changes in the immune response and assess the validity of the immune theory of aging (i.e. that these changes in immune response are the primary cause of aging). Many data in humans support the notion that age-associated immune dysfunction may at least in part explain the aging process. Explanatory power may be enhanced by combination with other theories such as the free radical theory. More longitudinal studies are needed to corroborate the immune theory of aging.

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One of the most important questions in life is why we age and why it ends. Most of the living organisms on earth are subject to this universal phenomenon, although at grossly differing rates, and most of our knowledge originates from mammalian studies. Another universal phenomenon of life is that each organism must possess the means to protect itself from external and internal challenges to maintain its integrity, i.e. must possess an immune system, different as this may be in different organisms [1]. Powerful defenses must be carefully focused on the target to limit self-injury, as inevitably occurs to some degree during immune reactions (immunopathology). Does this mean that as well as contributing to longevity by protecting against disease, the immune system may damage healthy tissue and contribute to the ageing process,

The Immunologic Theory Of Aging

Nathan F. Cardarelli



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The Immunologic Theory of Aging Roy L. Walford, 1969 **Handbook of Theories of Aging** Merrill Silverstein, Vern L. Bengtson, Vern L. Bengtson, PhD, Norella Putney, Daphna Gans, 2008-10-27 The field of gerontology has often been criticized for being data rich but theory poor The editors of this book address this issue by stressing the importance of theory in gerontology While the previous edition focused on multidisciplinary approaches to aging theory this new edition provides cross disciplinary integrative explanations of aging theory The contributors of this text have reached beyond traditional disciplinary boundaries to partner with researchers in adjacent fields in studying aging and age related phenomena This edition of the Handbook consists of 39 chapters written by 67 internationally recognized experts in the field of aging It is organized in seven sections reflecting the major theoretical developments in gerontology over the past 10 years Special Features Comprehensive coverage of aging theory focusing on the biological psychological and social aspects of aging A section dedicated to discussing how aging theory informs public policy A concluding chapter summarizing the major themes of aging and offering predictions about the future of theory development Required reading for graduate students and post doctoral fellows this textbook represents the current status of theoretical development in the study of aging *General system theory of aging. Special role of the immune system* V. Dontsov, 2019-08-01 The monograph examines the general methodological problems of the aging main mechanisms as well as consideration of the fundamental possibilities and directions of influence on this process A special place is occupied by the use of system analysis consideration of integrative systems and the special role of the immune system namely that part of it which is not responsible for immune phenomena proper but regulates the interaction of proliferation of various cell populations in the body **The Thymus in Health and Senescence** Nathan F. Cardarelli, 2019-07-17 First published in 1989 This text was written to provide a relatively broad comprehensive study of the thymus in health and disease including relationships to the endocrine system immune system and again **Immunological Aspects of Neoplasia — The Role of the Thymus** Bela Bodey, Stuart E. Siegel, Hans E. Kaiser, 2006-04-11 Our work began where the greatest classical morphologists left off their best work was the start of ours As our work progressed the rigidity of basic previous embryological principles was broken down as scientific knowledge advanced At the same time the molecular biological characterization of the cell surface receptor systems progressed enormously with the invention of NUMEROUS monoclonal antibodies Thus thymology became once again very important because the thymus is the first and central organ of the human immunological system Then the question of immuno neuroendocrine regulation arose and has only been partially answered Our book seeks to explore what has not been explored The topic of thymic epithelial cells is a unique one and has never been explored in any previous book as it is explored in this one Only a handful of great thymologists remain in the world today especially after the great loss the medical community suffered with the passing of Dr Good the list includes but is not limited to Dr Ritter and Dr Kendall in England Dr Savino in

Brazil Dr Dardenne in France Dr von Gaudecker in Germany a few others in Belgium and Holland and it is our hope that Dr Bodey is among them Nonetheless a book on the thymus has not been written in the last five years and a book such as this one has never been This book is based on a 30 year period of research and includes references from a broad range of sources spanning the globe and all sources even those that were the beginning of thymic research The book thus is uniquely well rounded more so that previous works Immunology and Ageing N. Fabris,1982-03-31 Principles and Practice of Geriatric Surgery Ronnie Ann Rosenthal,Michael E. Zenilman,Mark R. Katlic,2011-07-12 In the preface to this impressive and well produced book the editors state that their aim is not to describe a new surgical specialty since most surgeons will soon need to be geriatric surgeons but to assemble a comprehensive account that will allow all providers of healthcare to the elderly to understand the issues involved in choosing surgery as a treatment option for their patients This is a useful book that deserves to do well I hope that the editors and their publisher will have the stamina to make this the first of several editions as it is clear that updated information about surgery in the elderly will be required to keep pace with this important field NEJM Book Review Principles and Practice of Geriatric Surgery Ronnie A. Rosenthal,2001 Principles and Practice of Geriatric Surgery presents the fundamentals of surgical care for the fastest growing segment of the US population providing a vital integration of operative strategies with the physiological changes of aging Among the topics covered are the endocrine system otolaryngology respiratory system cardiovascular system GI system hepatobiliary system urogenital system soft tissue and musculoskeletal system neurosurgery and transplantation **Basic Geriatric Nursing - E-Book** Patricia A. Williams,2019-07-30 NEW QSEN boxes provide you with the knowledge skills and attitudes necessary to continuously improve the quality and safety of care of the older adult NEW Nurse Alert feature emphasizes important safety and health promotion content specific to the elderly patient NEW Updated and expanded art program makes learning the material easier through clear and timely photographs and illustrations **A Textbook on EDTA Chelation Therapy** Elmer M. Cranton,2025-09-12 Chelation therapy based on the intravenous infusion of EDTA is a highly effective treatment for atherosclerotic cardiovascular disease Safety and effectiveness are well documented in clinical studies all of which to date are supportive of this therapy and there are no studies showing lack of effectiveness A strong case is made for the use of this safe efficacious and inexpensive therapy before resorting to surgery and other risky and invasive treatments In this newly revised and extensively updated edition of what has come to be regarded as the definitive textbook on the subject renowned chelation expert Elmer M Cranton M D presents the work of the world s leading experts in chelation therapy This therapy has been proven effective over and over again in clinical practice says Dr Cranton More than one million patients have recieved more than twenty million infusions with no serious or lasting adverse effects In his foreword Nobel Prize winner Dr Linus Pauling states EDTA chelation therapy makes good sense to me as a chemist and medical researcher It has a rational scientific basis and the evidence for clinical benefit seems to be quite strong Here in a single volume you will learn

everything you need to know to responsibly administer and advocate chelation therapy You will find a coherent scientific rationale clinical trials demonstrating effectiveness guidelines for safety detailed protocols for administration and techniques for pre and post treatment laboratory evaluation

Anatomy and Physiology Lippincott, 2002 This new Second Edition contains general and specific information on human anatomy and physiology and thoroughly explains and demonstrates normal structures and functions in all body systems As a quick reference it provides both a systems and functional approach and is organized in a logical body system arrangement Overview chapters define important terms describe basic cell and tissue types and detail the body's chemical makeup Features include comprehensive explanations of physiologic processes key terms italicized for easy access and clear illustrations of major body structures and processes with 32 pages in full color Its portable size and lie flat binding provide an easy and convenient read anywhere Compatibility BlackBerry R OS 4.1 or Higher iPhone iPod Touch 2.0 or Higher Palm OS 3.5 or higher Palm Pre Classic Symbian S60 3rd edition Nokia Windows Mobile TM Pocket PC all versions Windows Mobile Smartphone Windows 98SE 2000 ME XP Vista Tablet PC

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Histocompatibility Testing 1984 E.D. Albert, M.P. Baur, W.R. Mayr, 2012-12-06

Encyclopedia of Biomedical Gerontology, 2019-11-20 Encyclopedia of Biomedical Gerontology Three Volume Set presents a wide range of topics ranging from what happens in the body during aging the reasons and mechanisms relating to those age related changes and their clinical psychological and social modulators and determinants The book covers the biological and medical aspects of gerontology within the general framework of the biological basis of assessing age biological mechanisms of aging age related changes in biological systems human age related diseases the biomedical practicality and impracticality of interventions and finally the ethics of intervention Provides a one stop resource to information written by world leading scholars in the field of biomedical gerontology Fills a critical gap of information in a field that has seen significant progress in the last 10 years

Aging L. Robert, T. Fulop, 2014-05-15 Aging inspired a large number of theories trying to rationalize the aging process common to all living beings In this publication the most important environmental and intrinsic mechanisms involved in the aging process and in its pathological consequences are reviewed Furthermore theoretical and experimental evidence of the most important theoretical elements based on Darwinian evolution cellular aging role of cell membranes free radicals and oxidative processes receptor mediated reactions the extracellular matrix and immune functions as well as the most important environmental and intrinsic mechanisms involved in the aging process and in its pathological consequences are discussed These presentations of theories and related experimental facts give a global overview of up to date concepts of the biology of the aging process and are of essential reading not only for specialists in this field but also for practitioners of scientific medical social and experimental sciences

Immunologic Theory of Aging Roy L. Walford,1974 *Advances in Clinical Chemistry* ,2000-10-11 For more than thirty years this serial has broadened the technical scope and expanded the scientific base of clinical chemistry These volumes clarify the areas of molecular biology informatics and the monitoring of physiological parameters in critical situations as they pertain to clinical chemistry Each volume of *Advances in Clinical Chemistry* contains an index and each chapter includes references **Geriatric Training Curriculum for Public Health Professionals** ,1990

Immunosenescence and Immunoexhaustion in Chronic Kidney Disease and Renal Transplantation Maria J. Stangou,Asimina Fylaktou,Milena Ivanova Ivanova - Shivarova,Ioannis Theodorou,2022-05-03 *Encyclopedia of Immunobiology* ,2016-04-27 *Encyclopedia of Immunobiology* Five Volume Set provides the largest integrated source of immunological knowledge currently available It consists of broad ranging validated summaries on all of the major topics in the field as written by a team of leading experts The large number of topics covered is relevant to a wide range of scientists working on experimental and clinical immunology microbiology biochemistry genetics veterinary science physiology and hematology The book is built in thematic sections that allow readers to rapidly navigate around related content Specific sections focus on basic applied and clinical immunology The structure of each section helps readers from a range of backgrounds gain important understanding of the subject Contains tables pictures and multimedia features that enhance the learning process In depth coverage allows readers from a range of backgrounds to benefit from the material Provides handy cross referencing between articles to improve readability including easy access from portable devices

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