

Commentary**Modern Biological Theories of Aging****Kunlin Jin**

Aging and Disease, 8001 Redwood, Blvd, Novato, California 94945, USA

ABSTRACT: Despite recent advances in molecular biology and genetics, the mysteries that control human lifespan are yet to be unraveled. Many theories, which fall into two main categories: programmed and error theories, have been proposed to explain the process of aging, but neither of them appears to be fully satisfactory. These theories may interact with each other in a complex way. By understanding and testing the existing and new aging theories, it may be possible to promote successful aging.

Key words: Aging; Biological; Theory; Programmed; lifespan

Why do we age? When do we start aging? What is the aging marker? Is there a limit to how old we can grow? These questions are often pondered by the mankind in the past couple of hundred years. However, in spite of recent advances in molecular biology and genetics, the mysteries that control human lifespan are yet to be unraveled.

Many theories have been proposed to explain the process of aging, but neither of them appears to be fully satisfactory (1). The traditional aging theories hold that aging is not an adaptation or genetically programmed. Modern biological theories of aging in humans fall into two main categories: programmed and damage or error theories. The programmed theories imply that aging follows a biological timetable, perhaps a continuation of the one that regulates childhood growth and development. This regulation would depend on changes in gene expression that affect the systems responsible for maintenance, repair and defense responses. The damage or error theories emphasize environmental assaults to living organisms that induce cumulative damage at various levels as the cause of aging.

The programmed theory has three sub-categories: 1) Programmed Longevity. Aging is the result of a sequential switching on and off of certain genes, with senescence being defined as the time when age-associated deficits are manifested. Dr. Davidovic et al discuss the role of genetic instability in aging and dynamics of the aging process (1). 2) Endocrine Theory. Biological clocks act through hormones to control the pace of aging. Recent studies confirm that

aging is hormonally regulated and that the evolutionarily conserved insulin/IGF-1 signaling (IIS) pathway plays a key role in the hormonal regulation of aging. Dr. van Heerdt discusses the potential mechanism underlying IIS and aging process(2). 3) Immunological Theory. The immune system is programmed to decline over time, which leads to an increased vulnerability to infectious disease and thus aging and death. It is well documented that the effectiveness of the immune system peaks at puberty and gradually declines thereafter with advance in age. For example, as one grows older, antibodies lose their effectiveness, and fewer new diseases can be combated effectively by the body, which causes cellular stress and eventual death (3). Indeed, dysregulated immune response has been linked to cardiovascular disease, inflammation, Alzheimer's disease (AD), and cancer. Although direct causal relationships have not been established for all these detrimental outcomes, the immune system has been at least indirectly implicated (4).

The damage or error theory include 1) Wear and tear theory. Cells and tissues have vital parts that wear out resulting in aging. Like components of an aging car, parts of the body eventually wear out from repeated use, killing them and then the body. So the wear and tear theory of aging was first introduced by Dr. August Weismann, a German biologist, in 1882, it sounds perfectly reasonable to many people even today, because this is what happens to most familiar things around them. 2) Rate of living theory. The greater an organism's rate of oxygen basal

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Modern Biological Theories Of Aging

**Alan J. Sinclair, John E. Morley, Bruno
Vellas, Matteo Cesari, Medha Munshi**

Modern Biological Theories Of Aging:

Modern Biological Theories of Aging Huber R. Warner,1987

Handbook of the Biology of Aging Edward L.

Schneider,John W. Rowe,2013-10-22 Handbook of The Biology of Aging Third Edition provides a general overview to a wide scientific audience of some of the most important topics in biomedical gerontology The book discusses methodologies for biological aging studies and on animal models Protein modifications with aging special senses circadian rhythms and the adrenocortical axis are tacked in the book as well Gerontologists psychologists health care professionals and graduate students will find the book useful

Evolutionary Biology of Aging Michael R. Rose,1994-10-27 This unique book looks at the biology of aging from a fundamentally new perspective one based on evolutionary theory rather than traditional concepts which emphasize molecular and cellular processes The basis for this approach lies in the fact that natural selection as a powerful determining force tends to decline in importance with age Many of the characteristics we associate with aging the author argues are more the result of this decline than any mechanical imperative contained within organic structures This theory in turn yields the most fruitful avenues for seeking answers to the problem of aging and should be recognized as the intellectual core of gerontology and the foundation for future research The author ably surveys the vast literature on aging presenting mathematical experimental and comparative findings to illustrate and support the central thesis The result is the first complete synthesis of this vital field Evolutionary biologists gerontologists and all those concerned with the science of aging will find it a stimulating strongly argued account

Anti-Aging Drug Discovery on the Basis of Hallmarks of Aging Sandeep Kumar Singh,Chih Li Lin,Shailendra Kumar Mishra,2022-07-19 Anti Aging Drug Discovery on the Basis of Hallmarks of Aging is a comprehensive and timely book on all aspects of anti aging strategies The book provides comprehensive foundational knowledge on the mechanisms of aging and current anti aging strategies and approaches developed Aging research has experienced an unprecedented advance over recent years with the discovery that the rate of aging is determined at least to some extent mainly by our genetics and modulated by environmental factors The hallmarks of aging describe the molecular and cellular processes that govern biological aging and their variation in individuals Covers different aspects of anti aging research from foundational knowledge to future perspectives Provides understanding on the different hallmarks of aging and how they can be applied in the development of anti aging drugs Discusses various anti aging strategies including telomerase reactivation clearance of senescent cells stem cell based therapy and others

Functional Performance in Older Adults Bette R Bonder, Vanina Dal Bello-Haas,2017-12-04 Support the very best health well being and quality of life for older adults Here s the ideal resource for rehabilitation professionals who are working with or preparing to work with older adults You ll find descriptions of the normal aging process discussions of how health and social factors can impede your clients ability to participate in regular activities and step by step guidance on how to develop strategies for maximizing their well being

Aging Paulo J. Oliveira,Joao O. Malva,2022-09-22 Aging From Fundamental Biology to

Societal Impact examines the interconnection of the cellular and molecular basis of aging and societal based challenges and innovative interventions Sections take a societal based angle on aging describing several flagship initiatives for healthy living and active aging in different regions cover the biology of aging which includes the hallmarks of aging explain the pathophysiology of aging describing different comorbidities associated with aging and possible interventions to decrease the impact of aging and envision future and innovative measures to tackle aging related morbidities Contributions from an interdisciplinary panel of experts cover such topics as the biology of aging to physical activity nutrition psychology pharmacology health care social care and urban planning Provides a cross disciplinary approach to aging at both the biological and societal level Highlights frontline scientific knowledge in the biology of aging and its translation into societal interventions Offers insights on the value of aging research and its future impact from a fundamental and translation point of view

Human Senescence Douglas E. Crews, 2003-12-11 Much research on the biology of senescence is on cell lines nematodes or fruit flies that are only of peripheral relevance to the problems encountered in humans Human Senescence is a text which reviews the evolutionary biology of human senescence and life span and the evolutionarily recent development of late life survival It examines how human patterns of and variability in growth and development have altered later life survival probabilities and competencies and how survival during mid life contributes to senescent dysfunction and alteration Discussing possibilities of further extending human life span it gives a better understanding of how humans came to senesce as slowly as we do over our lifespan Bringing together gerontological anthropological and biocultural research it explores human variation in chronic disease senescence and life span as outcomes of early life adaptation and the success of humankind s sociocultural evolution It is a benchmark publication for all interested in how and why we age **Pathy's**

Principles and Practice of Geriatric Medicine Alan J. Sinclair, John E. Morley, Bruno Vellas, Matteo Cesari, Medha Munshi, 2022-02-18 Die sechste Ausgabe von Pathy s Principles and Practice of Geriatric Medicine bietet einen umfassenden Überblick über das Thema sowie aktuelle evidenzbasierte Informationen über die zahlreichen und unterschiedlichen Probleme unter denen ältere Patienten leiden In dieser neuesten Ausgabe haben die Autoren die Inhalte aktualisiert und dabei die neuesten wissenschaftlichen Erkenntnisse konsequent auf die klinische Praxis übertragen wobei sie vermehrt auf Beispielbilder Algorithmen und Grundsätze der guten klinischen Praxis zurückgreifen Die durchgängig aktualisierten Kapitel vermitteln eine wirklich umfassende Perspektive auf die Geriatrie und berücksichtigen auch die neuesten Veränderungen in Bezug auf Behandlungsmöglichkeiten und Gesundheitszustände Neben den neuen Kapiteln über verschiedene aktuelle Themen den Grundsätzen der guten klinischen Praxis und den Beispielbildern und MRT Scans enthält das Buch außerdem Eine umfassende Einführung in die relevanten biologischen sozialen und gesundheitsbezogenen Perspektiven bei der Pflege älterer und alternder Patienten sowie in die Verschreibung von Medikamenten für ältere Patienten Eine umfassende Untersuchung von Essstörungen die häufig bei älteren Menschen auftreten sowie Methoden zur Förderung einer gesunden Ernährung bei

lteren Patienten Eine praktische Er rterung h matologischer und kardiovaskul rer St rungen und Krankheiten bei lteren Patienten Eine eingehende Betrachtung besonderer Themen in der Altenpflege darunter Missbrauch lterer Menschen Alkoholabh ngigkeit und Drogenmissbrauch Schwierigkeiten beim Transport und Sterbebegleitung Pathy s Principles and Practice of Geriatric Medicine eignet sich perfekt f r alle Personen in Pflegeberufen die mit lteren Patienten arbeiten und darf auch in den Bibliotheken von Mitarbeitern der Gesundheitsdienste bei der Betreuung von lteren Patienten und Pflegebed rftigen nicht fehlen *Reframing Aging* Melissa K. Melby, 2025-09-10 How do we age Why do we age How and why does menopause happen Do different cultures have different approaches and attitudes to and experiences of aging and menopause Reframing Aging Insights from Biology and Culture of Midlife Japanese uses a biocultural framework to try to answer these questions and gain insights on aging and menopause in Japan the United States and beyond Drawing on years of fieldwork and lab work in Japan and over a decade of living and working in Japan at several universities and the National Institute of Health and Nutrition with follow up interviews spanning over 20 years Melissa Melby challenges what are often considered normal experiences of aging and menopause This book introduces a proximate ultimate biocultural framework to guide the reader through questions of how proximate and why ultimate we age and experience menopause as we do Drawing insights from evolutionary biology and societal level phenomena and the language of lived experience it explores how cross cultural variation in expectations medicalization collectivism lifestyles and other factors may influence how symptoms of aging and menopause are perceived experienced and treated Reframing Aging Insights from Biology and Culture of Midlife Japanese offers new approaches and insightful perspectives for students of biological cultural medical anthropology gerontology Asian studies women and gender studies medicine and public health **Oxygen Radicals in Biology and Medicine** Michael Simic, 2013-03-09 This book is based on the papers presented at the Fourth International Congress on Oxygen Radicals 4 ICOR held June 27 July 3 1987 at the University of California La Jolla The chapters deal with the phenomena associated with highly reactive oxygen species hydroxy peroxy alkoxy aroxy and superoxide radicals as well as singlet oxygen and their peroxidation products hydrogen peroxide hydroperoxides peroxides and epoxides as they relate to the fields of chemistry food technology nutrition biology pharmacology and medicine The kinetics energetics and mechanistic aspects of the reactions of these species and the interrelationship of oxygen radicals or any other free radicals and peroxidized products have been emphasized Special attention is focused on the mechanisms of the generation of free radicals and peroxy products in biosystems and on the adverse effects of these radicals and products in humans The topics span the continuum from the simple chemistry of model systems to the complex considerations of clinical medicine The book also explores the mechanisms of agents that protect against free radicals and peroxy products in vitro and in vivo These agents include antioxidants used in materials food antioxidants physiological antioxidants and antioxi enzymes SOD glutathione peroxidase and catalases The use of these inhibitors to prevent damage to organs being prepared for transplantation thereby

maintaining the quality of transplanted organs and or extending their shelf life also is examined

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