

Nozomu Mori · Inhee Mook-Jung
Editors

Aging Mechanisms

Longevity, Metabolism, and Brain
Aging

 Springer

Aging Mechanisms Longevity Metabolism And Brain Aging

H Kauffman



Aging Mechanisms Longevity Metabolism And Brain Aging:

Aging Mechanisms Nozomu Mori, Inhee Mook-Jung, 2015-11-26 This book brings together the most up to date information on recent research results of leading laboratories on aging science in East Asia particularly in Japan Korea and Hong Kong Starting with a comprehensive overview of various hypotheses on biological mechanisms of aging by Dr Sataro Goto each chapter covers broad aspects of the most recent findings in aging related topics centenarian studies and genome analysis of progeria metabolic biochemistry and neurobiology longevity controls in yeast and nematodes oxidative stress and calorie restriction and neurodegeneration mechanisms in Alzheimer s and Huntington s diseases with further potential therapeutic approaches to these age related neurodegenerative diseases Also included in part is a summary and the outcomes of a scientific discussion forum called the Asian Aging Core for Longevity AACL that has been held annually alternating between Japan and Korea during the last decade This book can serve as a useful resource for finding appropriate collaborators in the areas it covers The target readership is made up of graduate students and researchers at universities medical and or life science schools and biomedical and pharmaceutical institutes Why does aging exist How do we age How is each organism s lifespan determined These are fundamental questions in the field We may be still far from achieving a complete view of aging mechanisms but this book Aging Mechanisms offers an excellent opportunity to become familiar with the most updated progress in the biomedical research of aging in Japan and Korea the two leading nations for human longevity

Aging Mechanisms II Nozomu Mori, 2022 This book describes the recent advancement of basic research on the biology of aging and longevity studies in various organisms as well as the neurobiology of aging and neurodegeneration mechanisms Chapters present new findings and conceptual developments concerning the basic mechanisms of aging and longevity determination As a follow up volume to the previous book Aging Mechanisms 2015 it overviews the rapid progress of aging research introducing new topics from leading laboratories in Japan Chapter contributors are selected based on recent scientific achievements on the mechanisms of aging in various model organisms including yeast worm C elegans fly Drosophila mice and rats Chapters are ordered from the discussion on molecular and cellular levels to physiological and systemic levels The book also provides an overview of aging science in the region and helps readers quickly grasp who is doing what in this research area As the aging of population becomes an ever more pressing issue in Asia advancing the understanding of basic mechanisms of organism aging and longevity determination will be crucial to developing more effective therapies and protective strategies Researchers and graduate students in biomedical aging research will find this as a rich source of information and a stimulus to novel research directions

Aging Mechanisms II Nozomu Mori, 2022-04-28 This book describes the recent advancement of basic research on the biology of aging and longevity studies in various organisms as well as the neurobiology of aging and neurodegeneration mechanisms Chapters present new findings and conceptual developments concerning the basic mechanisms of aging and longevity determination As a follow up volume to

the previous book *Aging Mechanisms 2015* it overviews the rapid progress of aging research introducing new topics from leading laboratories in Japan Chapter contributors are selected based on recent scientific achievements on the mechanisms of aging in various model organisms including yeast worm *C. elegans* fly *Drosophila* mice and rats Chapters are ordered from the discussion on molecular and cellular levels to physiological and systemic levels The book also provides an overview of aging science in the region and helps readers quickly grasp who is doing what in this research area As the aging of population becomes an ever more pressing issue in Asia advancing the understanding of basic mechanisms of organism aging and longevity determination will be crucial to developing more effective therapies and protective strategies Researchers and graduate students in biomedical aging research will find this as a rich source of information and a stimulus to novel research directions

Positive Ageing and Learning from Centenarians Michel Poulain, Jolanta Mackowicz, 2021-09-28 *Positive Ageing and Learning from Centenarians* evaluates the mechanisms of positive ageing in a uniquely interdisciplinary way to explore the question of how we age and how some people age successfully Drawing together the findings of recognised longevity researchers from around the world the book applies an integrated vision to educational and social aspects of human ageing It examines research into centenarians and considers most of the disciplines related to longevity and healthy aging and aspects such as education psychology philosophy anthropology demography sociology economics as well as those related to nutrition and biological factors of longevity The book examines how the results of these scientific investigations could improve the well being of the oldest olds in the future especially in the context of ageing societies It provides an answer to the question of what we can learn from centenarians and what lessons we can from their lifestyle which can contribute to live longer better and happier Based on cutting edge research the book will be highly relevant reading for researchers academics and students in the field of ageing and longevity mental health research health science gerontology and psychology

Frontiers in Clinical Drug Research - Alzheimer Disorders Atta-ur-Rahman, 2016-07-14 *Frontiers in Clinical Drug Research Alzheimer Disorders* is an e Book series which covers recent topics related to understanding Alzheimer s disease AD that causes dementia and has a neurodegenerative effect on the brain The disease affects memory thought process and language of affected individuals Chapters in each volume focus on Alzheimer Disorders drug research with special emphasis on clinical trials research on drugs in advanced stages of development and cure for Alzheimer s disease and related disorders *Frontiers in Clinical Drug Research Alzheimer Disorders* will be of particular interest to readers interested in drug therapy of this specific neurodegenerative condition and related brain disorders as the series provides relevant reviews written by experts in field of Alzheimer s Disease research The fifth volume of this series features chapters covering critical discussions on AD management and new therapies The topics reviewed in this volume include Current concepts in management of AD The amyloid cascade hypothesis and stem cell based AD therapy Phytochemicals targeting AD Dementia screening in primary clinical care settings Updates in dementia AD clinical research and drug development

Topics in Biomedical Gerontology

Pramod C. Rath, Ramesh Sharma, S. Prasad, 2016-10-20 This book presents a collection of articles on various aspects of current research on aging. These include model systems, cellular, biochemical, and molecular aspects of experimental aging research as well as selected intervention studies on age-related diseases. Aging is a global challenge to human society. Children are always in a hurry to become adults, while adults produce offspring and add to the gene pool. However, after adulthood or the attainment of reproductive maturity, all physiological parameters of the living organism start to undergo the aging process. Old age sets in slowly but surely and usually continues for a prolonged period. If vigor and vitality are the main advantages of adulthood, old age offers the rewards of experience and maturity. Biologists ask questions such as: Why do we age? How do we become old? Is it possible to slow down, postpone, or even prevent aging? In turn, medical experts ask: What are the diseases associated with old age? Are there medicines that can help affected elderly patients? In fact, both groups are asking themselves: how can we add more health to old age? Healthy aging is the dream of every individual. But to achieve this, it is fundamental that we first understand the cellular, biochemical, and molecular basis of the aging process in mammalian cells, tissues, and intact living organisms, which can serve as experimental model systems in Biomedical Gerontology. Once the biology of aging is understood at the genetic and molecular levels, interventional approaches to aging and its associated diseases may be easier to plan and implement at the preclinical level.

Handbook of the Neuroscience of Aging Patrick R. Hof, Charles V. Mobbs, 2010-05-22 A single volume of 85 articles, the Handbook of the Neurobiology of Aging is an authoritative selection of relevant chapters from the Encyclopedia of Neuroscience, the most comprehensive source of neuroscience information assembled to date. AP Oct 2008 The study of neural aging is a central topic in neuroscience, neuropsychology, and gerontology. Some well-known age-related neurological diseases include Parkinson's and Alzheimer's, but even more common are problems of aging which are not due to disease but to more subtle impairments in neurobiological systems, including impairments in vision, memory loss, muscle weakening, and loss of reproductive functions, changes in body weight, and sleeplessness. As the average age of our society increases, diseases of aging become more common, and conditions associated with aging need more attention by doctors and researchers. This book offers an overview of topics related to neurobiological impairments which are related to the aging brain and nervous system. Coverage ranges from animal models to human imaging, fundamentals of age-related neural changes, and pathological neurodegeneration, and offers an overview of structural and functional changes at the molecular, systems, and cognitive levels. Key pathologies such as memory disorders, Alzheimer's dementia, Down syndrome, Parkinson's, and stroke are discussed, as are cutting-edge interventions such as cell replacement therapy and deep brain stimulation. There is no other current single-volume reference with such a comprehensive coverage and depth. Authors selected are the internationally renowned experts for the particular topics on which they write, and the volume is richly illustrated with over 100 color figures. A collection of articles reviewing our fundamental knowledge of neural aging, the book provides an essential, affordable reference for scientists in all areas of

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Hormones in Ageing and Longevity Suresh Rattan,Ramesh Sharma,2017-08-19 This multi chapter book focuses on one of the hottest topics in ageing research the role of hormones in health and longevity offering a comprehensive and up to date overview of their mechanistic roles in health ageing and longevity Hormones are an excellent system of communication between cells and tissues within an organism and they coordinate a wide range of processes in biological systems including neuroendocrine and immunological controls The book offers insights into the latest significant advances in our understanding of the mechanisms of hormonal signaling that control a variety of processes involved in development and ageing It is divided into four parts Part I includes a review of the hundred year history of hormones by the illustrious hormone biochemist Dr J R Tata Part II presents various chapters on the hormones involved in growth stress and metabolism while Part III addresses the hormones controlling cognition and rhythms in ageing processes Lastly Part IV discusses the hormones affecting reproduction immunity and life span It also explores the use of hormones as pharmaceuticals to maintain health in the elderly It is a valuable resource for those working in the area of hormone signaling in general and in the field of ageing research in particular

ARE WE READY TO LIVE 150 YEARS DAVID SANDUA,2024-12-04 In the near future the possibility of living up to 150 years transitions from utopia to scientific and social ambition Advances in biotechnology nanotechnology regenerative medicine and genetic editing have revolutionized the understanding of human aging igniting ethical economic and cultural debates This book delves into the multifaceted realm of prolonged longevity from its biological foundations to its societal implications covering topics such as the impact of extended life on family structures environmental sustainability and workforce dynamics Through an interdisciplinary lens it invites readers to reflect on the balance between quantity and quality of life posing a provocative question are we truly prepared for a society where living 150 years becomes the norm

Advances and Challenges in Studying Brain Disorders: from Development to Aging Subashika Govindan,Fiona

Francis, Esther Klingler, 2024-02-07 **Research Awards Index** , 1989 **Biomedical Index to PHS-supported Research** , 1987 *Handbook of the Biology of Aging* Edward J. Masoro, Steven N. Austad, 2011-04-28 The Handbook of the Biology of Aging Sixth Edition provides a comprehensive overview of the latest research findings in the biology of aging. Intended as a summary for researchers, it is also adopted as a high level textbook for graduate and upper level undergraduate courses. The Sixth Edition is 20% larger than the Fifth Edition with 21 chapters summarizing the latest findings in research on the biology of aging. The content of the work is virtually 100% new. Though a selected few topics are similar to the Fifth Edition, these chapters are authored by new contributors with new information. The majority of the chapters are completely new in both content and authorship. The Sixth Edition places greater emphasis and coverage on competing and complementary theories of aging, broadening the discussion of conceptual issues. Greater coverage of techniques used to study biological issues of aging include computer modeling, gene profiling, and demographic analyses. Coverage of research on *Drosophila* is expanded from one chapter to four. New chapters on mammalian models discuss aging in relation to skeletal muscles, body fat, and carbohydrate metabolism, growth hormone, and the human female reproductive system. Additional new chapters summarize exciting research on stem cells and cancer, dietary restriction, and whether age-related diseases are an integral part of aging. The Handbook of the Biology of Aging Sixth Edition is part of the Handbooks on Aging series, including Handbook of the Psychology of Aging and Handbook of Aging and the Social Sciences, also in their 6th editions.

Biomedical Index to PHS-supported Research: pt. A. Subject access A-H , 1994 The Future of Aging , 2010-07-28 Just as the health costs of aging threaten to bankrupt developed countries, this book makes the scientific case that a biological bailout could be on the way and that human aging can be different in the future than it is today. Here 40 authors argue how our improving understanding of the biology of aging and selected technologies should enable the successful use of many different and complementary methods for ameliorating aging and why such interventions are appropriate based on our current historical, anthropological, philosophical, ethical, evolutionary, and biological context. Challenging concepts are presented together with in-depth reviews and paradigm-breaking proposals that collectively illustrate the potential for changing aging as never before. The proposals extend from today to a future many decades from now in which the control of aging may become effectively complete. Examples include sirtuin modulating pills, new concepts for attacking cardiovascular disease and cancer, mitochondrial rejuvenation, stem cell therapies, and regeneration, tissue reconstruction, telomere maintenance, prevention of immunosenescence, extracellular rejuvenation, artificial DNA repair, and full deployment of nanotechnology. The Future of Aging will make you think about aging differently and is a challenge to all of us to open our eyes to the future therapeutic potential of biogerontology.

Cumulated Index Medicus , 1987 **Biology of Longevity and Aging** Robert Arking, 2019-01-10 An introductory text to the biology of aging and longevity offering a thorough review of the field Essential Guide to Neurodegenerative Disorders Wael Mohamed, 2024-11-24 Handbook of Neurodegenerative

Disorders Mechanism Diagnostic and Therapeutic Advances provides a comprehensive review on the current biomedical studies aimed at identifying the underlying causes of neurodegeneration This book reviews the most recent developments in molecular and cellular processes altered during neurodegeneration Divided into four parts the first covers the mechanism of cell death in neurodegeneration The second section reviews the recent progress in gene and gene products in neurodegeneration including Huntington s disease Parkinson s disease Friedreich s ataxia and spinal muscular atrophy The final sections cover the current and future diagnostic techniques of neurodegenerative disorders along with therapeutic approaches Reviews big data and neurodegeneration disorders including gene mapping Examines the structural basis of protein assembly into amyloid filaments in neurodegenerative disease Covers the progress and challenges of pharmacotherapy of neurodegenerative disorders Research Grants Index National Institutes of Health (U.S.). Division of Research Grants,1973 **Biology of Aging** Robert Arking,2006-02-02 Robert Arking s Biology of Aging 3rd edition is an introductory text to the biology of aging which gives advanced undergraduate and graduate students a thorough review of the entire field His prior two editions have also served admirably as a reference text for clinicians and scientists This new edition captures the extraordinary recent advances in our knowledge of the ultimate and proximal mechanisms underlying the phenomenon of aging As a result six important conceptual changes are included here Clarified distinctions between the biological mechanisms involved in longevity determination and those involved in senescent processes A new conceptual framework around which we can organize all the new facts about aging This will assist readers to make sense of the information and use the data to form their own ideas Increased knowledge of aging cells has lead to new ideas on how a cell transits from a healthy state to a senescent state while still allowing for high levels of intra and inter specific variability Discussion of senescent mechanisms assists the reader to understand that aging is a non programmatic loss of function likely arising from the loss of regulatory signals and so is modifiable in the laboratory Because the standard evolutionary story does not fully explain the evolution of social organisms this edition also includes recent work dealing with intergenerational resource transfers Lastly if aging mechanisms are plastic then the demand to move these anti aging interventions into the human arena will inevitably grow A discussion of the biological and ethical arguments on both sides of the question frames the question in an appropriate manner The mass of data related to aging is summarized into fifteen focused chapters each dealing with some particular aspect of the problem The last two chapters integrate all this material into a coherent view of how the relevant biological processes change over the life span This view is expressed in two non technical figures you might say that the whole book exists to fully support Figs 9 4 14 9 whose meanings are elucidated as the reader progresses through the book

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web is today national bus driver appreciation day be it further resolved the superintendent or her designee shall celebrate national school bus driver

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feb 9 2016 negligence and poor work performance are two issues often confused in the workplace as such it should be dealt with carefully to avoid any dire consequences should a

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jun 11 2018 in pernod ricard sa pty ltd v ccma others 2011 32 ilj 119 lc it was found that the commissioner correctly set out the law pertaining to poor work performance the

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many employers fire poor performers hastily while others wait too long before taking strong action one reason for unnecessary delays in firing bad performers is the employer fears being

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section 188a of the labour relations act 66 of 1995 as amended and items 8 and 9 to the code of good practice dismissal ccma info sheet 3 5e info sheet ccma poor work

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lets look at exactly what poor performance is and the remedy for it poor performance does not look at the behavior of the employee at work problems of behavior are addressed under

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sep 29 2021 in the matter of eskom v mokoena 1997 8 blr 965 lac the labour appeal court held that whilst a dismissal for poor work performance should be preceded by a fair

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effective facilitation can make a huge difference in assisting groups to work effectively together facilitation as a method has been incorporated by many organisations and groups as a

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the main issue that lands employers at the ccma is that they mistakenly believe that hiring an employee under a probationary contract or having a probationary clause in the employment

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apr 22 2022 if the business retrenches them poor work performance is a form of incapacity which is the second option in other words when an employee fails to perform their duties and

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inform the employee that his her work performance does not meet the required standards discuss possible causes of the poor performance and rectify any workplace based causes

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mar 2 2015 one key reason for unnecessary delays in firing bad performers is the employer s fear of being taken to the ccma and being forced to reinstate the employee and or to pay big

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a disciplinary hearing is basically an enquiry held by the employer to determine whether an employee is guilty of an offence or not a poor work performance hearing is similar but the

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performance it is suggested that employers explinform the employee that his her work performance does not meet the required standards such as discuss possible causes of the

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mar 25 2022 the required standard of work performance in the workplace the employee s duties why the employee is not meeting these standards according to the employer the

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poor work performance falls under the broad heading of incapacity poor work performance or failure by the employee to reach and maintain the employer s work performance standards