

BIOLOGY OF AGING AND ITS MODULATION

Aging at the Molecular Level

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Thomas von
Zglinicki



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Aging At The Molecular Level Biology Of Aging And Its Modulation

E.J. Masoro



Aging At The Molecular Level Biology Of Aging And Its Modulation:

Aging at the Molecular Level Thomas von Zglinicki, 2003-11-30 Since the early 1960s the study of the biological basis of aging has progressed tremendously and is now an independent field of study and research This volume brings together contributions to the field from an international team of authors

Biology of Aging Robert Arking, 2006-02-02 Robert Arking's Biology of Aging is an introductory text to the biology of aging which gives advanced undergraduate and graduate students a thorough review of the entire field The mass of data related to aging is summarized into fifteen focused chapters each dealing with some particular aspect of the problem 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

Endogenous Toxins, 2 Volume Set Peter J. O'Brien, William Robert Bruce, 2009-12-02 Designed as a first stop reference for researchers and professionals in toxicology pharmacology and medicine this handbook is the very first to tie together the knowledge from many disciplines that has so far been available only from widely dispersed sources in the primary literature As such it presents the complete picture on what is currently known about endogenous toxins including their generation mode of action resulting disease condition and available countermeasures Clearly divided into four parts the first systematically covers important toxic molecule species including metabolic intermediates and reactive oxygen species The second discusses the role of genetically determined metabolic malfunctions such as galactosemia hyperlipidemia porphyria hemochromatosis and related conditions while part three looks at acquired and chronic diseases caused or exacerbated by endogenous toxins such as hepatic injury asthma rheumatism colorectal cancer reperfusion diseases neurodegeneration and aging The final part reviews current strategies to control and minimize the effect of endogenous toxins either by nutritional or pharmacological interventions With its complete coverage integrating molecular and systemic aspects from the biochemical basis to human disease conditions this comprehensive reference will appeal to a broad target group of toxicologists biochemists nutrition specialists and physicians

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 *Oxidative Stress and Hormesis in Evolutionary Ecology and Physiology* David Costantini, 2014-03-27 This book discusses oxidative stress and hormesis from the perspective of an evolutionary ecologist or physiologist In the first of ten chapters general historical information definitions and background of research on oxidative stress physiology hormesis and life history are provided Chapters 2 10 highlight the different solutions that organisms have evolved to cope with the oxidative threats posed by their environments and lifestyles The author illustrates how oxidative stress and hormesis have shaped diversity in organism life histories behavioral profiles morphological phenotypes and aging mechanisms The book offers fascinating insights into how organisms work and how they evolve to sustain their physiological functions under a vast array of environmental conditions

The Role of Organismal Oxidative Stress in the Ecology and Life-History Evolution of Animals David Costantini, 2024-09-09 This book illustrates the role of cellular oxidative stress as one of the most important physiological cornerstones in the evolution of biodiversity The first part of the book provides the fundamentals to navigate the field and analyse the cross talk between oxidative status homeostasis and other fundamental organismal functions such as immunity and stress physiology The second part of the book argues that oxidative stress underpins the astonishing diversity of adaptations to the environments and the evolution of life history strategies from growth to reproduction Unravelling the unexpected ways through which the need of regulating the organismal oxidative status has influenced the evolution of life this book presents a novel integrative way of thinking about how a cellular mechanism has shaped the evolution of life and death

The spatiotemporal dynamics of longevity-defining cellular processes and its modulation by genetic, dietary and pharmacological anti-aging interventions Vladimir I. Titorenko, Troy A. A. Harkness, Aging of multicellular and unicellular eukaryotic organisms is a highly complex biological phenomenon that affects a plethora of processes within cells This wide array of longevity defining cellular processes which are governed by an evolutionarily conserved signaling network includes oxidative metabolism and protein synthesis in mitochondria lipid and carbohydrate metabolism NAD homeostasis amino acid biosynthesis and degradation ammonium and amino acid uptake ribosome biogenesis and translation proteasomal protein degradation nuclear DNA replication chromatin assembly and maintenance actin organization apoptosis necrosis autophagy protein folding stress response signal transduction cell cycle and cell growth The focus of this Frontiers Special Topic Issue is on an important conceptual advance in our understanding of how cells integrate and control these numerous processes and how genetic dietary and pharmacological anti aging interventions extend longevity by altering their functional states and

spatiotemporal dynamics The Issue will highlight the various strategies used by evolutionarily diverse organisms for coordinating these longevity defining cellular processes in space and time critically evaluate the molecular and cellular mechanisms underlying such coordination and outline the most important unanswered questions and directions for future research in this vibrant and rapidly evolving field

Caloric Restriction: A Key to Understanding and Modulating Aging E.J. Masoro, 2002-12-20 For many years it has been known that when rats and mice are given a reduced amount of food their life span is increased and they remain healthy and vigorous at advanced ages What is the reason for this change in the usual pattern of aging The evidence is overwhelming that the life extension results from a slowing of aging processes And the factor responsible is the decrease in caloric intake The obvious question How does this factor work A good question and the reason that research on the anti aging action of caloric restriction is today one of the most studied research areas in biological gerontology For it is felt that if the biological mechanisms of the anti aging action of caloric restriction can be uncovered we would gain an understanding of the basic nature of aging processes which would in turn yield possible interventions in human aging This book aims to provide the growing number of researchers in this field faculty postdoctoral trainees and graduate students with a detailed knowledge of what is known about caloric restriction within the frame of gerontology as well as insights on future of this field

Genetics and Evolution of Aging Michael R. Rose, Caleb E. Finch, 2013-03-09 Aging is one of those subjects that many biologists feel is largely unknown Therefore they often feel comfortable offering extremely facile generalizations that are either unsupported or directly refuted in the experimental literature Despite this unfortunate precedent aging is a very broad phenomenon that calls out for integration beyond the mere collecting together of results from disparate laboratory organisms With this in mind Part One offers several different synthetic perspectives The editors Rose and Finch provide a verbal synthesis of the field that deliberately attempts to look at aging from both sides the evolutionary and the molecular The articles by Charlesworth and Clark both provide population genetic perspectives on aging the former more mathematical the latter more experimental Bell takes a completely different approach arguing that aging may not be the result of evolutionary forces Bell s model instead proposes that aging could arise from the progressive deterioration of chronic host pathogen interactions This is the first detailed publication of this model It marks something of a return to the type of aging theories that predominated in the 1950 s and 1960 s theories like the somatic mutation and error catastrophe theories We hope that the reader will be interested by the contrast in views between the articles based on evolutionary theory and that of Bell MR Rose and C E Finch eds *Genetics and Evolution of Aging* 5 12 1994 1994 Kluwer Academic Publishers The J aniform genetics of aging 2 Michael R Rosel Caleb E *Inflammation, Advancing Age and Nutrition* Irfan Rahman, Debasis Bagchi, 2013-09-03 The book provides a comprehensive overview to understanding the integrated impact of the concepts of cellular and molecular aspects models environmental factors and lifestyle involved in premature aging Additionally it examines how functional food dietary nutraceuticals or pharmacological

compounds can reverse inflammation and premature aging based on personalized medicine This book is a valuable resource for health professionals scientists and researchers nutritionists health practitioners students and for all those who wish to broaden their knowledge in the allied field Includes models of aging including worm mouse and human Explores the relationship of inflammation with diseases including ocular health Alzheimer s and Parkinson s disease and muscle health Encompasses a variety of lifestyle impacts including diet exercise and nutrition Includes suggested nutritional interventions

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