

The background of the entire cover is a microscopic image showing various green, elongated, and somewhat fibrous structures, possibly representing single-cell organisms or cellular components. These structures are set against a lighter green background with some darker, circular spots.

Life-Span Extension

Single-Cell Organisms to Man

Edited by
Christian Sell
Antonello Lorenzini
Holly M. Brown-Borg



Humana Press

Life Span Extension Single Cell Organisms To Man Aging Medicine

**Claire G. Nicholl, K. Jane Wilson, Shaun
D'Souza**



Life Span Extension Single Cell Organisms To Man Aging Medicine:

Life-Span Extension Christian Sell, Antonello Lorenzini, Holly M. Brown-Borg, 2009-07-27 In recent years remarkable discoveries have been made concerning the underlying mechanisms of aging In *Life Span Extension Single Cell Organisms to Man* the editors bring together a range of illuminating perspectives from researchers investigating the aging process in a variety of species This novel work addresses the aging process in species ranging from yeast to man and among other subjects features detailed discussions of the naked mole rat an exceptionally long lived rodent the relationship between dietary factors food restriction and aging and an evolutionary view of the human aging process Single mutations that extend life span have been identified in yeast worms flies and mice whereas studies in humans have identified potentially important markers for successful aging At the same time it has been discovered that the genes and pathways identified in these studies involve a surprisingly small set of conserved functions most of which have been the focus of aging research for some time For example the mTOR pathway a regulator of translation and protein synthesis has been identified as a common longevity pathway in yeast and *Caenorhabditis elegans* In mammals this pathway intersects with neuroendocrine pathways and with the insulin like growth factor pathways which have been identified as major modulators of life span and aging in both invertebrates and mice Novel emerging technologies and the increasingly wide variety of systems that are now used to study aging and the mechanisms of aging provide enormous opportunities for the identification of common pathways that modulate longevity It is these common pathways that are the focus of this important volume

Anti-aging Drugs Alexander M Vaiserman, 2017-01-18 Aging is a natural phenomenon that is peculiar to all living things However accumulating findings indicate that senescence could be postponed or prevented by certain approaches Substantial evidence has emerged supporting the possibility of radical human health and lifespan extension in particular through pharmacological modulation of aging A number of natural dietary ingredients and synthetic drugs have been assumed to have geroprotective potential In the development of anti aging therapeutics several cell insect and animal models may provide useful starting points prior to human studies This book provides an overview of current research aimed to search for life extending medications and describes pharmacological aspects of anti aging medicine Readers are introduced to the fascinating historical background of geroprotection in the first chapter In depth information on models for investigating geroprotective drugs precedes a section covering anti aging properties of pharmaceutical compounds such as calorie restriction mimetics autophagy inducers senolytics and mitochondrial antioxidants Finally strategies to translate discoveries from aging research into drugs and healthcare policy perspectives on anti ageing medicine are provided to give a complete picture of the field A timely and carefully edited collection of chapters by leading researchers in the field this book will be a fascinating and useful resource for pharmacologists gerontologists and any scientifically interested person wishing to know more about the current status of research into anti aging remedies challenges and opportunities

Life Extension Alexander M. Vaiserman, Alexey A.

Moskalev,Elena G. Pasyukova,2015-06-09 This book looks at aging through research on Drosophila the fruit fly that is one of the most widely used model organisms in bio gerontology Work in model organisms can expand the theoretical knowledge of aging it yields valuable insight into the molecular and cellular processes that underlie aging process and it can perhaps provide new therapeutic targets for the treatment of age related disorders in humans Drosophila models have been developed for a large variety of aging related processes and diseases and this book provides readers with an overview of current research on the use of the Drosophila model to understand the genetic molecular and physiological mechanisms that underlie the aging process Themes of health span life extension and longevity associated genes emerge in this collation of international research on Drosophila that is of relevance to geriatrics and gerontology animal genetics and genomics and biomedicine This fascinating illustrated book will be of interest to a wide audience ranging from academic researchers to the general reader

The Longevity Seekers Ted Anton,2024-05-31 A beautifully told story of twenty first century researchers in pursuit of the secrets of longevity a book both engaging and illuminating Deborah Blum Pulitzer Prize winning author People have searched for the fountain of youth everywhere from Bimini to St Augustine But for a steadfast group of scientists the secret to a long life lies elsewhere in the lowly lab worm By suppressing the function of just a few key genes these scientists were able to lengthen worms lifespans up to tenfold while also controlling the onset of many of the physical problems that beset old age As the global population ages the potential impact of this discovery on society is vast as is the potential for profit With *The Longevity Seekers* science writer Ted Anton takes readers inside this tale that began with worms and branched out to snare innovative minds from California to Crete investments from big biotech and endorsements from TV personalities like Oprah and Dr Oz Some of the research was remarkable such as the discovery of an enzyme in humans that stops cells from aging And some like an oft cited study touting the compound resveratrol found in red wine proved highly controversial igniting a science war over truth credit and potential profit As the pace of discovery accelerated so too did powerful personal rivalries and public fascination driven by the hope that a longer healthier life was right around the corner Anton has spent years interviewing and working with the scientists at the frontier of longevity science and this book offers a behind the scenes look at the state of the art research and the impact it might have on global public health society and even our friends and family

Brocklehurst's Textbook of Geriatric Medicine and Gerontology E-Book Howard M. Fillit,Kenneth Rockwood,John B Young,2016-05-06 The leading reference in the field of geriatric care Brocklehurst s Textbook of Geriatric Medicine and Gerontology 8th Edition provides a contemporary global perspective on topics of importance to today s gerontologists internal medicine physicians and family doctors An increased focus on frailty along with coverage of key issues in gerontology disease specific geriatrics and complex syndromes specific to the elderly makes this 8th Edition the reference you ll turn to in order to meet the unique challenges posed by this growing patient population Consistent discussions of clinical manifestations diagnosis prevention treatment and more make reference quick and easy

More than 250 figures including algorithms photographs and tables complement the text and help you find what you need on a given condition Clinical relevance of the latest scientific findings helps you easily apply the material to everyday practice A new chapter on frailty plus an emphasis on frailty throughout the book addresses the complex medical and social issues that affect care and the specific knowledge and skills essential for meeting your patients complex needs New content brings you up to date with information on gerontechnology emergency and pre hospital care HIV and aging intensive treatment of older adults telemedicine the built environment and transcultural geriatrics New editor Professor John Young brings a fresh perspective and unique expertise to this edition

Neuronal Inputs and Outputs of Aging and Longevity Joy Alcedo, Thomas Flatt, Elena G. Pasyukova, 2013-08-23 An animal's survival strongly depends on its ability to maintain homeostasis in response to the changing quality of its external and internal environments This is achieved through intercellular communication not only within a single tissue but also among different tissues and organ systems Thus alterations in tissue to tissue or organ to organ communications which are under genetic regulation can affect organismal homeostasis and consequently impact the aging process One of the organ systems that play a major role in maintaining homeostasis is the nervous system Considering that the nervous system includes the sensory system which perceives the complexity of an animal's environment it should be no surprise that there would be a sensory influence on homeostasis and aging To promote homeostasis any given sensory information is transmitted through short range signals via neural circuits and or through long range endocrine signals to target tissues which may in turn be neuronal or non neuronal in nature At the same time since homeostasis involves a number of feedback mechanisms non neuronal tissues can also modulate sensory and other neuronal functions Several genes that regulate signaling pathways known to affect homeostasis and aging have been shown to act in neurons in tissues that are likely downstream targets of the nervous system or through feedback regulation of neuronal activities These genes can have different temporal requirements some might function early e g by affecting neural development while others may only be required later in adulthood Some well known examples of genes involved in the neuronal regulation of homeostasis and longevity encode components of the evolutionarily conserved nutrient sensing insulin insulin like signaling pathway the stress sensing internal repair system and the mitochondrial electron transport chain Indeed the genetic perturbation of these pathways has been found to lead to numerous diseases many of which are age related and involve the nervous system such as neurodegeneration and the metabolic syndrome Despite much progress however many aspects of the neuronal inputs and outputs that affect aging and longevity are poorly understood to date For example the precise neuronal and non neuronal circuitries and the details of the molecular mechanisms through which genes signaling pathways maintain homeostasis and affect aging in response to the environment remain to be elucidated Similarly it is presently unclear whether genes that regulate the early development of the nervous system and its consequent circuitry influence homeostasis and longevity during adulthood At the same time although many genes affecting aging are conserved both the nervous system and the

aging process are highly variable within populations and among taxa Accordingly the role of natural genetic variation in shaping the neurobiology of aging is also presently unknown The aim of this Research Topic is therefore to highlight the genetic developmental and physiological aspects of the signaling networks that mediate the neuronal inputs and outputs that are required to maintain organismal homeostasis The elucidation of the effects of these neuronal activities on homeostasis may thus provide much needed insight into mechanisms that affect aging and longevity

Geriatric Medicine and Elderly Care Claire G. Nicholl, K. Jane Wilson, Shaun D'Souza, 2025-02-10 GERIATRIC MEDICINE AND ELDERLY CARE Lecture Notes Ninth Edition An essential resource for meeting the needs of an ageing patient population As the global population ages geriatric medicine is steadily becoming one of the most important areas of medical research and care Healthcare systems in developed countries are adapting to this shift in the population and doctors are finding that a larger and larger proportion of their patients are older Current medical training often does not include adequate coverage of geriatric medicine and students may well find they require more extensive resources for meeting older patients needs Lecture Notes Geriatric Medicine and Elderly Care meets this need with a set of comprehensive but straightforward introductions to the foundational concepts of geriatric medicine Combining a user friendly format with extensive high quality figures and illustrations it is a must have resource for medical students looking to deepen their knowledge of a widening area of essential care Now thoroughly revised and updated to reflect the latest research and medical knowledge of ageing and elder care this is an essential contribution to the popular Lecture Notes series Readers of the ninth edition of Lecture Notes Geriatric Medicine and Elderly Care will also find New chapters on the science of ageing including immunosenescence and rejuvenation research and geriatric oncology Full coverage of the British Geriatrics Society and European undergraduate curriculums A companion website with appendices key revision points for each chapter and further readings Lecture Notes Geriatric Medicine and Elderly Care is ideal for medical students and Foundation Year doctors in most specialties who are treating frail older people It also provides a starting point for revision for higher specialty examinations in geriatric medicine Anki Revision Cards A set of Anki App digital revision cards is available to go with this textbook The cards contain the material from the self test questions in the book Anki App is a cross platform mobile and desktop flashcard app that can support your studies see www.ankiapp.com It uses an algorithm to present cards you know less well more frequently You can keep the cards on your mobile device and study them in your downtime Visit www.lecturenoteseries.paediatrics to download the card set to your device

The U.S. Government and the Future of International Medical Research: Hearings on July 9 and 16, 1959; (includes transcript of conferences in Europe, November-December 1958 United States. Congress. Senate. Committee on Government Operations. Subcommittee on Reorganization and International Organizations, 1960

Van Nostrand's Scientific Encyclopedia Douglas M. Considine, Glenn D. Considine, 2013-12-11 Advancements in science and engineering have occurred at a surprisingly rapid pace since the release of the seventh edition of this encyclopedia Large portions of the

reference have required comprehensive rewriting and new illustrations Scores of new topics have been included to create this thoroughly updated eighth edition The appearance of this new edition in 1994 marks the continuation of a tradition commenced well over a half century ago in 1938 Van Nostrand s Scientific Encyclopedia First Edition was published and welcomed by educators worldwide at a time when what we know today as modern science was just getting underway The early encyclopedia was well received by students and educators alike during a critical time span when science became established as a major factor in shaping the progress and economy of individual nations and at the global level A vital need existed for a permanent science reference that could be updated periodically and made conveniently available to audiences that numbered in the millions The pioneering VNSE met these criteria and continues today as a reliable technical information source for making private and public decisions that present a backdrop of technical alternatives

Defy Aging Beth Bennett,2021-10-15 Shows why and how the body deteriorates as life goes on and offers an easy read overview of new solutions coming out of current studies of aging Wrinkles and gray hairs and misplaced keys the obvious signs of getting older Surprisingly all of the miniscule events in our cells and organs that are responsible for aging begin their deterioration in our third decade This book explains what is going on inside cells and organs that result in the outward appearances of aging Readers will discover what causes skin to sag hair to turn gray blood vessels to stiffen and other mostly unwelcome events Finally and probably most importantly the reader will be introduced to what can be done to stop or reverse this process Beth Bennett provides an easy to read introduction to the science of aging why and how the body deteriorates She uses real world analogies to explain the chemical and cellular processes taking place in the body along with newly discovered solutions emerging from basic research labs Bennett explores the effects of aging in body systems that are important to all of us as we age skin muscle bone heart and brain In each of these body components Bennett connects novel science based interventions with lifestyle modifications that improve and extend health as opposed to simply lengthening life

Lies I Taught in Medical School Robert Lufkin,2024-06-04 AN INSTANT NEW YORK TIMES BESTSELLER Modern medicine is lying to you Discover the true science behind chronic diseases and implement an actionable plan to take control of your health and longevity once and for all For the first time in history chronic diseases like diabetes hypertension and obesity plague our population on a global scale From a seasoned physician this paradigm shifting book comprehensively explains the linked cause and exposes the misconceptions prevalent in modern medicine In **Lies I Taught in Medical School** Robert Lufkin MD explains that metabolic dysfunction is the common underlying cause of most chronic diseases that has been overlooked for decades providing the tools needed to address these diseases in ourselves He draws on expansive peer reviewed evidence proving that standard medical recommendations are killing us Over the course of 12 illustrated chapters **Lies I Taught in Medical School** chronicles how Dr Lufkin corrected four chronic diseases in himself and expertly supplies the strategies needed to Identify chronic disease risk factors such as inflammation and insulin resistance Boost mental health via nutrition

and lifestyle Improve diet and metabolism Attend to obesity diabetes hypertension and cardiovascular and other common chronic diseases Get off unnecessary medications including many diabetes and hypertension drugs What's more Dr Lufkin offers practical advice to show how lifestyle factors such as nutrition sleep exercise and stress management can target the fundamental cause of chronic diseases Lies I Taught in Medical School is a revolutionary and holistic guide that will help you take control of your health before it's too late

Advances in Geroscience Felipe Sierra, Ronald Kohanski, 2015-11-10 This book provides the first comprehensive overview of a new scientific discipline termed Geroscience Geroscience examines the molecular and cellular mechanisms that might explain why aging is the main risk factor for most chronic diseases affecting the elderly population Over the past few decades researchers have made impressive progress in understanding the genetics biology and physiology of aging This book presents vital research that can help readers to better understand how aging is a critical malleable risk factor in most chronic diseases which in turn could lead to interventions that can help increase a healthy lifespan or healthspan The book begins with an analysis of the Geroscience hypothesis as well as the epidemiological underpinnings that define aging as a candidate main risk factor for most chronic diseases Next each chapter focuses on one particular disease or group of diseases with an emphasis on how basic molecular and cellular biology might explain why aging is a major risk factor for it Coverage in the book includes cancer cardiovascular disease dementias stroke Parkinson's and Alzheimer's diseases osteoporosis arthritis diabetes asthma emphysema kidney disease vision impairment and AIDS HIV It finishes with a chapter on pain in the elderly and an overview of future steps needed to bring the newly acquired knowledge into the clinic and the public at large

The U.S. Government and the Future of International Medical Research United States. Congress. Senate. Subcommittee on Reorganization and International Organizations of the Government Operations Committee, 1960

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

The U.S. Government and the Future of International Medical Research: Hearings on July 9 and 16, 1959; (includes transcript of conferences in Europe, November-December 1958 United States.

Congress. Senate. Committee on Government Operations,1960 U.S. Government and the Future of International Medical Research United States. Congress. Senate. Committee on Government Operations. Subcommittee on Reorganization, Research, and International Organizations,1960 *The U. S. Government and the Future of International Medical Research*

United States. Congress. Senate. Committee on Government Operations,1960 **Handbook of Models for Human Aging**

P. Michael Conn,2011-04-28 The Handbook of Models for Human Aging is designed as the only comprehensive work available that covers the diversity of aging models currently available For each animal model it presents key aspects of biology

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of its kind to combine both methods of study for human aging and animal models Over 200 illustrations Mosby's Dictionary of Medicine, Nursing & Health Professions - eBook Mosby,2016-04-28 Make sense of the complex world of health

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revised definitions reflect the latest developments in health care drugs and nursing terminology NEW Completely updated illustrations visually clarify key definitions to reflect current healthcare practice and equipment **Genomes, Evolution,**

and Culture Rene J. Herrera,Ralph Garcia-Bertrand,Francisco M. Salzano,2016-03-01 This book combines recent information and discoveries in the field of human molecular biology and human molecular evolution It provides an

interdisciplinary approach drawing together data from various diverse disciplines to address both the more classical

anthropological content and the current more contemporary molecular focus of courses Chapters include a history of human

evolutionary genetics the human genome structure and function population structure and variability gene and genomic dynamics culture health and disease bioethics future

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