

Gerontology Research Center (GEREC)

- Multidisciplinary unit that hosts large data recourses
- Population-based prospective studies
- Twin studies
- Randomised controlled trials in rehabilitation and in the prevention of functional decline
- Experimental studies at the molecular and cellular level



Molecular And Cellular Gerontology

Olivier Toussaint



Molecular And Cellular Gerontology:

Molecular and Cellular Gerontology Olivier Toussaint, 2000 This work covers a number of relevant aspects of the molecular and cellular biology of ageing a timely general topic highlighted by the United Nations having declared 1999 the Year of the Elderly The papers published here represent a wide range of complementary research areas molecular and cellular aspects theories of ageing molecular basis of the loss of homeostatic maintenance mechanisms lower and higher model organisms including transgenic animal models the genetics of human longevity clinical and molecular aspects of age related diseases and integrated systems like brain and immune system aging It is hoped that the additions to knowledge of the molecular mechanisms of ageing provided by this volume may ultimately lead to the prevention of age related diseases

Molecular Biology of Aging Leonard Guarente, Linda Partridge, Douglas C. Wallace, 2008 This volume covers the major threads in the molecular genetics of aging including genes that regulate aging causes of aging evolutionary theories of aging and the relationship between diet and aging Among specific topics covered are calorie restriction mitochondria sirtuins telomeres stem cells and cancer

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

Molecular, Cellular, and Metabolic Fundamentals of Human Aging Evandro Fei Fang, Linda Hildegard Bergersen, Brian C. Gilmour, 2022-10-23 Molecular Cellular and Metabolic Fundamentals of Human Aging provides researchers with an overview of the main aging mechanisms and physiology and how they can lead to age related diseases and conditions Topics covered include DNA damage and how ineffective repair can lead to cell and tissue aging and decreased functionality loss of proteostasis changes to feeding and fasting pathways mitochondrial dysfunction the impact of decreased ability of autophagosomes and autophagosomes cellular senescence changes to communication molecules and the impact of stem cell exhaustion The book also considers the impact of aging within the immune system the relationship between aging and diseases such as cancers and neurodegenerative conditions and provides an overview on the dialogue surrounding the topic of aging beyond basic biology Covers the basic hallmarks of aging and their relevance in various diseases such as cancer and Alzheimer s disease Discusses the impact of genetic damage and how changes in genetic expression patterns affect the process of aging Highlights recurring themes and key principles shared across the hallmarks of aging Considers NAD depletion and defective autophagy as emerging aspects

that impact human aging Gerontology Dieter Platt,2012-12-06 At the beginning of the century the average life span in developed societies was less than 50 years It is now more than 70 years and will continue to increase in the near future Aging is a challenge to science and society There are several theories of aging The programmed aging hypothesis suggests that aging cannot be altered by any external influence that aging is programmed from the beginning of life until the end of senescence Another theory is based on genetic instability with repair processes correcting errors in the cells that cause aging Aging processes manifest themselves at the molecular and cellular level in different organs and in the whole organism Most older persons acquire multiple diseases primarily chronic ones The multimorbidity of the elderly raises many questions as to nutrition metabolism immunity drug therapy and rehabilitation Nutrition may be able to intervene in the aging process Aging is associated with declining immunity and reduced resistance to many diseases and it is possible that nutritional changes in old age contribute to the declining immunity in the elderly The elderly take 40% of the prescription drugs in Germany and adverse drug reactions are more frequent in geriatric patients There are not only problems in drug therapy for elderly patients but also in their rehabilitation The aim of rehabilitation is the restoration of geriatric patients to their former functional and environmental status **The Role of DNA Damage and Repair in Cell Aging** B.A. Gilchrest,V.A.

Bohr,2001-03-09 Aging occurs at the level of individual cells a complex interplay between intrinsic programming and exogenous wear and tear with genetically determined cellular capacity to repair environmentally induced DNA damage playing a central role in the rate of aging and its specific manifestations In 12 chapters The Role of DNA Damage and Repair in Cell Aging provides an intellectual framework for aging of mitotic and post mitotic cells describes a variety of model systems for further studies and reviews current concepts of DNA responses and their relationship to the phenomenon of aging As part of a series entitled Advances in Cell Aging and Gerontology this volume also summarizes seminal recent discoveries such as the molecular basis for Werner syndrome a mutant DNA helicase the complementary roles of telomere shortening and telomerase activity in cell senescence versus immortalization the role of apoptosis in the homeostasis of aging tissue and the existence of an inducible SOS like response in mammalian cells that minimizes DNA damage from repeatedly encountered injurious environmental agents Insights into the relationship between cellular aging and age associated diseases particularly malignancies are also provided in several chapters This book is an excellent single source of information for anyone interested in DNA repair mechanisms of aging or certainly their intersection Students will gain a general appreciation of these fields but even the most senior investigators will benefit from the detailed coverage of rapidly advancing areas Recent Advances in Psychology and Aging P. Costa,I.C. Siegler,2003-12-10 Recent Events in the Psychology of Aging documents the successful integration of aging into the mainstream of psychology Leading psychologists present overviews of the key issues and research findings on mainstream topics These include cognitive neuroscience visual attention learning memory and cognition as well as personality and happiness The intersection of aging content with

mainstream psychology is also prominent in the areas of emotions personality and social psychology as seen in the chapters on subjective well being emotional development self esteem and personality trajectories The seven chapters of this book offer information on such topics as the seven sins of memory categorizing the common breakdowns of memory in everyday life and the special breakdown of sins that increase with aging problems with attention and learning and offers answers to questions such as do emotions get blunted with age do older people focus more on positive feelings and the age old question of whether older people are happier than younger people is given in the chapter on the evolving concept of subjective well being and the multifaceted nature of happiness Questions about what occurs to one s self esteem and personality are also masterfully discussed and the answers may be surprising The concluding seventh chapter provides a cultural lens on the biopsychosocial study of aging

Gerontology Grazia D'Onofrio,Daniele Sancarlo,Antonio Greco,2018-07-04 Aging well and actively is the real objective of human being This book is an up to date and realistic view on physiopathological mechanisms of aging and age related diseases The book includes topical contributions from multiple disciplines to support the fundamental goals of extending active life and enhancing its quality

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

Stem Cells: A Cellular Fountain of Youth M.P. Mattson,G. van Zant,2002-08-21 The developmental capabilities and therapeutic potential of stem cells are being revealed in studies of cellular signaling mechanisms that regulate their proliferation differentiation and survival Stem Cells A Cellular Fountain of Youth reviews the current state of understanding of the molecular mechanisms that regulate embryonic and adult stem cells with an emphasis on how aging and age related disease impact on these mechanisms Leading authorities detail the properties and therapeutic potential of embryonic stem cells and stem cell precursors of blood nervous and muscle and bone cells Recent advances in deciphering the environmental signals and intrinsic signal transduction pathways that regulate embryonic stem cells are described and the potential therapeutic uses of these totipotent cells is considered Analyses of hematopoietic stem cells during aging suggest an important genetic component to the control of their self renewing capability which may contribute to determination of lifespan The contribution of lymphocyte depletion to impaired

immune function during aging is considered as is the potential of hematopoietic cells to form other types of cells including neurons. Several chapters cover the remarkable and rapidly advancing field of neural stem cells. The adult brain contains populations of stem cells capable of forming new neurons and glial cells; the signals that regulate these neural stem cells and the involvement of neurogenesis in normal brain function is described. Because of their potential to replace lost or damaged neurons, there has been intense interest in determining the therapeutic potential of stem cells for the treatment of patients with Parkinson's and Alzheimer's diseases, stroke, and traumatic brain and spinal cord injuries. Heart and skeletal muscle contain stem cells, and the impact of aging and disease on these stem cell populations and the potential of stem cell therapy to recover function of these organs is reviewed. A final example of the fascinating world of stem cells is a review of the roles of stem cells in bone formation and remodeling. Collectively, this book provides a comprehensive yet concise view of stem cell molecular biology in the context of aging and age-related disease. This book will be a valuable reference for graduate students and senior scientists interested in the fascinating world of stem cells and their potential use in the clinic.

The Underlying Molecular, Cellular and Immunological Factors in Cancer and Aging Stringer Sue Yang, 2012-12-06

Background: Cancer is a variety of malignancies generally associated with aging. As the overall health technology and health care delivery improved with the advances made in medicine and science in the United States, the life expectancy of the population also increased. The average life expectancy in the U.S.A. has increased from 49 years at the end of 1900 to 75 years today. In 1990, 13% of the population of 65 years and older constituted 25.5 million or 11.3% of the total U.S. population. In 1980, 4% of the population of 65 years and older constituted 31.1 million or 12.5% of the population according to the 1990 U.S. census. As cancer diagnosis and treatment have improved, cancer mortality among patients under 55 has been significantly reduced within recent years. However, cancer incidence under 55 is still increasing at about 0.4% per year as compared to 1.0% for all ages or 0.6% for

Cellular Aging and Cell Death Nikki J. Holbrook, George R. Martin, Richard A. Lockshin, 1995-12-20

Cellular AGING AND CELL DEATH Edited by Nikki J. Holbrook, George R. Martin, and Richard A. Lockshin. Cellular Aging and Cell Death provides a thorough understanding of the mechanisms responsible for cellular aging, covering the recent research on programmed cell death and senescence and describing their role in the control of cell proliferation and the aging process. This one-of-a-kind book is the first to combine the two hottest research areas of cell biology into one comprehensive text. Leading experts contribute to give readers an authoritative overview of the distinct fields of cellular aging and programmed cell death, as well as to demonstrate how both fields are critical to understanding the aging process. They address the large and growing interest in apoptosis, especially with regard to the molecular signals that induce and regulate programmed cell death and the role of apoptosis in a variety of age-associated diseases and disabilities. Throughout the book, a strong emphasis is placed on the interrelationship of the molecular, cellular, and physiological aspects of senescence. Individual chapters discuss such topics as the role and regulation of apoptosis in development, the potential impact of cell death on such postmitotic tissues as nerve and muscle, and

suggest that programmed cell death plays an important role in both pathological and nonpathological aspects of aging including neurodegenerative diseases. One important chapter focuses on the most recent research involving the study of telomeres whose reduction in length with age and cell division may underlie cellular senescence. The subject of neuronal cell death is also put into the perspective of aging. Cellular Aging and Cell Death bridges the rapidly growing fields of cellular aging and programmed cell death. This thorough yet concise book will be of particular interest to graduate students and researchers within the fields of cell and developmental biology, neurobiology, immunology and physiology. Physicians and medical students involved in the fields of gerontology and pathology will also find this an informative reference. **Basic**

Biology and Clinical Impact of Immunosenescence G. Pawelec, 2003-05-01 Ageing is of perennial interest as a universal feature in all human societies. The genetic background and biochemical bases of ageing processes are currently being revealed in unprecedented detail. It is emerging that one of the main hurdles to be overcome in achieving a long and healthy lifespan is the maintenance of a properly functioning immune system. The main cause of death in people who have achieved successful ageing which mostly means not having succumbed to cancer or cardiovascular disease is infectious disease caused by immunosenescence. This book contains chapters by many of the leaders in the field of immune related issues in ageing and remediation. Sleep and Aging Mark P. Mattson, 2005-06-20 The book describes the mechanisms involved in the

maintenance of neuroendocrine immune interactions in ageing. The lack of this maintenance leads to the appearance of age related diseases: cancer, infections, dementia and subsequent disability. The capacity of some hormones or nutritional factors in restoring and remodelling the neuroendocrine immune response during ageing is reported, presenting possible new anti ageing strategies in order to reach healthy ageing and longevity. **Cellular and Molecular Aspects of Aging** John W.

Eaton, Diane K. Konzen, James Gordon White, 1985-09 Energy Metabolism and Lifespan Determination M.P. Mattson, 2003-12-01 Experts in the fields of energy metabolism, aging and oxidative stress provide an integrated view of how mechanisms involved in regulating energy metabolism are linked to fundamental processes of aging including cellular stress resistance and free radical production. During evolution, signal transduction pathways and organ systems have been optimised for the efficient seeking, ingestion, storing and using of energy. These signalling pathways play prominent roles in lifespan determination, with insulin and related signalling pathways being prime examples. The authors consider how lifespan and healthspan can be extended through knowledge of energy metabolism, with the experimental model of dietary restriction being one example. The information in this volume of ACAG will foster novel approaches and experiments for further understanding the roles of energy metabolism in aging and disease. **Possibilities and Limitations in Current**

Translational Stem Cell Research, 2023-06-21 Although the concept of using advanced therapy products such as stem cells seems to be a key strategy in the treatment of various diseases, much information in this area remains unknown. Stem cell products are highly complex, much more complex than chemical based drugs. More and more often there are data

indicating the risk of using stem cells These risks are determined by various factors that are related to quality biological activity and the use itself and thus administration Therefore it is very important to constantly systematize knowledge in this area This book was created to present both the perspective of basic research including the manipulation and changes in the properties of cells and the changes and novelties in therapies themselves

Physiological Basis of Aging and Geriatrics
Paola S. Timiras, 2007-08-16 Extensively revised and updated to reflect the current state of knowledge in the study of aging this Fourth Edition offers a complete profile of the aging process at all levels from molecules and cells to demography and evolution Written by international experts in current basic and clinical aging research this text includes aspects of individual comparative and differential aging and discussions of theories and mechanisms of aging This invaluable reference illustrates how bodily systems organs and functions are affected with aging describes how genetic and environmental factors influence age related changes and addresses some of the clinical consequences of these changes for health and longevity Well illustrated with numerous tables and graphs this book presents up to date information from internationally renowned experts in various bio medical fields

Biomedical Index to PHS-supported Research, 1990 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 nutrition factors affecting life span methods of age determination use in research and disadvantages advantages of use Chapters on comparative models take a broad sweep of age related diseases from Alzheimer s to joint disease cataracts cancer and obesity In addition there is an historical overview and discussion of model availability key methods and ethical issues Utilizes a multidisciplinary approach Shows tricks and approaches not available in primary publications First volume of its kind to combine both methods of study for human aging and animal models Over 200 illustrations

Whispering the Secrets of Language: An Psychological Journey through **Molecular And Cellular Gerontology**

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