

Molecular Gerontology

Research Status and Strategies



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and
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Indian National Science Academy



Molecular Gerontology Research Status And Strategies:

Molecular Gerontology S.I. Rattan, Olivier Toussaint, 2012-12-06 Esteemed researchers from different European laboratories provide state of the art studies on biology and ageing along with guidelines for future investigations They cover such issues in molecular gerontological research as regulation of gene expression from DNA to RNA to functional proteins origin of various age associated diseases genetic regulation of ageing and longevity and different mechanisms of defense and repair Other contributions evaluate new technologies including transgenic organisms and the use of nutritional and chemical modulators of ageing and lifespan *Challenges of Biological Aging* Edward J. Masoro, 2000-09-05 This volume provides the non biologist an overview of what is known about the physiological bases of aging The author examines the many basic theories and emerging hypotheses underlying the molecular cellular and systemic processes involved in senescence He addresses the normal physiological changes that characterize the aging phenotype and also considers the role of many age associated diseases in growing older Masoro synthesizes a much needed unified theory of biological aging to which explains how and why the body grows into the condition we call old This text is intended for gerontology students in training as well as for human physiologists interested in gerontology **Modulating Aging and Longevity** S.I. Rattan, 2003-09-30 After decades of systematic collection of data describing age related changes in organisms organs tissues cells and macromolecules biogerontologists are now in a position to construct general principles of ageing and explore various possibilities of intervention using rational approaches While not giving serious consideration to the claims made by charlatans it cannot be ignored that several researchers are making genuine attempts to test and develop various means of intervention for the prevention and treatment of age related diseases for regaining the functional abilities and for prolonging the lifespan of experimental organisms This book provides the most up to date information and a critical evaluation of a variety of approaches being tried for modulating aging and longevity including dietary supplementation with antioxidants vitamins and hormones genetic engineering life style alterations and hormesis through mild stress The goal of research on ageing is not to increase human longevity regardless of the consequences but to increase active longevity free from disability and functional dependence *Aging of Cells in and Outside the Body* S. Kaul, Renu Wadwha, 2013-03-14 This book provides updated knowledge on the basic features and mechanisms of cellular aging established since its first manifestation at cellular level 40 years ago Contributions of genetic and environmental factors failure of genetic and cellular repair mechanisms and the epigenetic modifications determine the final lifespan of cells This book also provides an understanding on how aging mechanisms in mice a most frequently used model differ with that of humans who receive better tumor surveillance because of stringent controls on aging mechanisms It also appraises the use of modern technology for aging studies and its intervention This book serves as an excellent reading on cellular aging for undergraduate students researchers and experts of this area **Model Systems in Aging** Thomas Nyström, Heinz D. Osiewacz, 2004 Aging is the progressive decline in

biological functions over time This decline targets macromolecules cells tissues and as a consequence whole organisms Despite considerable progress in the development of testable hypothesis concerning aging in an evolutionary context a unifying theory of the molecular physiological mechanistic causes of aging has not been reached In fact is it not clear to what extent aging is a programmed or stochastic process This book takes the reader from unicellular bacterial deterioration via senescence in fungi and worms to aging in rodents and humans allowing a comparative view on similarities and differences in different genetic model systems The different model systems are scrutinized in the light of contemporary aging hypothesis such as the free radical and genomic instability theories

Reproductive Ageing Susan Bewley,William Ledger,Dimitrios Nikolaou,2009-06-01 Reproductive ageing affects both individuals and wider society and obstetricians and gynaecologists are witness to the impact of reproductive ageing and to some of the fears and misapprehensions of the general public This book raises awareness of societal trends and their implications The wider importance of the subject to the whole of society is emphasized by contributions from outside the world of obstetrics and gynaecology both within and outside medicine The 56th RCOG Study Group brought together a range of experts to examine reproductive ageing This book presents the findings of the Study Group with sections covering background to ageing and demographics basic science of reproductive ageing pregnancy the ageing mother and medical needs the outcomes children and mothers future fertility insurance screening cryopreservation or egg donors sex beyond and after fertility fertility treatment science and reality the NHS and the market the future dreams and waking up

Manual of Gerontologic Nursing Charlotte Eliopoulos,1999 A practical accessible reference now brought completely up to date This bestselling manual covers all problems related to gerontologic nursing care within the nursing diagnosis framework

Proceedings of the Indian National Science Academy Indian National Science Academy,1970

The British National Bibliography Arthur James Wells,1998

Proceedings Indian National Science Academy,2003

Forthcoming Books Rose Arny,1997-04

Biomedical Index to PHS-supported Research: pt. A. Subject access A-H ,1992

Current Research in Britain ,1999

Biomedical Index to PHS-supported Research ,1987

Biomedical Index to PHS-supported Research: Project number listing, investigator listing ,1989

The Science of Anti-aging Medicine Ronald Klatz,Bob Goldman,1996

NIH Almanac National Institutes of Health (U.S.). Division of Public Information,1998

The Cumulative Book Index ,1997 A world list of books in the English language

Personalized Health and Precision Medicine in Practice Luca Chiapperino,Francesco Panese,S  verine Louvel,Sylvain Besle,2024-02-26 So called personalized health and precision medicine consist of a plethora of distinct endeavors Ranging from pharmacogenomics to big data medicine these endeavors are set out to tailor treatment and prevention to different combinations of data on the biological behavioral social and environmental determinants of health Currently reaching the trial of implementation across a diverse range of local and national contexts these innovations call for a thorough empirical scrutiny of the normative practical and technical reconfigurations that they engender Personalized precision approaches to

medicine demand substantive normative work that consists in reforming social contracts in healthcare and in ensuring a consistent commitment to change from both institutional actors and citizens

Assessment of Nutritional Status in Chronic Diseases Olivia Di Vincenzo ,Mariacristina Siotto,2025-09-22 Malnutrition undernutrition is defined as a state consequent to a lack of intake or uptake of nutrition that leads to altered body composition reduced physical and cognitive function and impaired clinical outcome from disease A poor nutritional status is common in patients affected by chronic diseases and may negatively affect diagnosis prognosis and the clinical course of disease Thus the assessment of nutritional status plays a crucial role in the management of chronic diseases It involves a multidimensional approach including different factors such as dietary intake anthropometric measurements biochemical markers and clinical evaluation Anthropometric measurements and body composition offer valuable insights into the assessment of nutritional status and risk of complications In addition biochemical markers provide objective data on nutritional deficiencies and metabolic abnormalities Factors such as inflammation and comorbidities can influence nutritional biomarkers necessitating careful interpretation

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