

Topics in Current Genetics

T. Nyström
H. D. Osiewacz
(Eds.)

3

Model Systems in Aging



Springer

Model Systems In Aging Topics In Current Genetics Vol 3

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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 hypotheses concerning aging in an evolutionary context, a unifying theory of the molecular physiological mechanistic causes of aging has not been reached. In fact, it is 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.

Evolutionary Interpretations of Aging, Disease Phenomenon, and Sex Giacinto Libertini, 2011

Aging Research in Yeast Michael Breitenbach, S. Michal Jazwinski, Peter Laun, 2011-11-19 This volume includes contributions by the leading experts in the field of yeast aging. Budding yeast *Saccharomyces cerevisiae* and other fungal organisms provide models for aging research that are relevant to organismic aging and to the aging processes occurring in the human body. Replicative aging, in which only the mother cell ages while the daughter cell resets the clock to zero, is a model for the aging of stem cell populations in humans, while chronological aging, measured by survival in a stationary phase, is a model for the aging processes in postmitotic cells, for instance neurons of the brain. Most mechanisms of aging are studied in yeast. Among them, this book discusses mitochondrial theories of aging, emphasizing oxidative stress and retrograde responses, the role of autophagy and mitophagy, the relationship of apoptosis to aging processes, the role of asymmetric segregation of damage in replicative aging, the role of replication stress and the role of the cytoskeleton in aging. Modern methods of yeast genetics and genomics are described that can be used to search for aging specific functions in a genome-wide unbiased fashion. The similarities in the pathology of senescence studied in yeast and of cancer cells, including genome instability, are examined.

Evolution from Cellular to Social Scales Arne T. Skjeltorp, Alexander V. Belushkin, 2008-09-26

Evolution is a critical challenge for many areas of science, technology, and development of society. The book reviews general evolutionary facts such as origin of life and evolution of the genome, and clues to evolution through simple systems. Emerging areas of science such as systems biology and bio complexity are founded on the idea that phenomena need to be understood in the context of highly interactive processes operating at different levels and on different scales. This is where physics meets complexity in nature and where we must begin to learn about complexity if we are to understand it. Similarly, there is an increasingly urgent need to understand and predict the evolutionary behavior of highly interacting man-made systems in areas such as communications and transport, which permeate the modern world. The same applies to the evolution of human networks such as social, political, and financial systems, where technology has tended to vastly increase both the complexity and speed of interaction, which is sometimes effectively instantaneous. The book contains reviews on such diverse areas as

evolution experiments with microorganisms the origin and evolution of viruses evolutionary dynamics of genes and environment in cancer development aging as an evolution facilitating program evolution of vision and evolution of financial markets

Evolutionary Gerontology and Geriatrics Giacinto Libertini, Graziamaria Corbi, Valeria Conti, Olga Shubernetskaya, Nicola Ferrara, 2021-05-25 This book provides concrete scientific basis that we can conceive the possibility of modifying or even completely canceling aging process despite the fact that aging is commonly regarded as the result of the overall effects of many uncontrollable degenerative phenomena. The authors illustrate in detail the mechanisms by which cells and the whole organism age. Actions by which it is possible or will be possible within a limited time to operate for modifying aging are also debated. The discussion is conducted within the frame and the concepts of evolutionary medicine which is also indispensable for distinguishing between the manifestations of aging and i) diseases that worsen with age and ii) acceleration of normal aging rates caused by unhealthy lifestyle habits and other avoidable factors. The book also discusses the impact of aging on overall mortality and the strange situation that according to official statistics aging does not exist as cause of death. This book is a turning point between a gerontology and geriatrics conceived as the study and vain treatment of an incurable condition and one in which these disciplines examine the how and why of a physiological phenomenon that can be modified up to a possible total control. This means transforming the medical prevention and treatment of physiological aging from the greatest failure to the greatest success of medicine

Reversal of Aging Walter Pierpaoli, 2005 The body of research on the process of human aging has grown considerably in recent years and the reports presented here explore a full range of approaches to this research from the molecular and genetic to the cellular and organismic levels. The contributing scientists identify the processes of aging and find functional and mechanistic approaches that may delay prevent or arrest the progress of aging and those ailments generally linked to senescence such as metabolic cardiovascular and autoimmune diseases. The investigation of various approaches to the prevention of aging will include efforts to mitigate the deleterious consequences of chemical pollution

Subject Guide to Books in Print, 2001 **The Journal of Cell Biology**, 2005 No 2 pt 2 of November issue each year from v 19 1963-47 1970 and v 55 1972 contain the Abstracts of papers presented at the Annual Meeting of the American Society for Cell Biology 3d 1963-10th 1970 and 12th 1972

Medical and Health Care Books and Serials in Print, 1997 **Medical Books and Serials in Print**, 1984 **Books in Series**, 1985 Vols for 1980 issued in three parts Series Authors and Titles **Russian Journal of Developmental Biology**, 1999 *Federation Proceedings* Federation of American Societies for Experimental Biology, 1978 **The Publishers Weekly**, 1965

Bowker's Medical Books in Print, 1974 **Scientific and Technical Books and Serials in Print**, 1984

International Books in Print, 1997 National Union Catalog, 1982, 1983 Forthcoming Books Rose Arny, 1997

Modern Trends in Aging Research Y. Courtois, 1986

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