

Aging Sex And Dna Repair

Recombination and Meiosis Richard Egel 2008-07-25 Once per life cycle, mitotic nuclear divisions are replaced by meiosis I and II - reducing chromosome number from the diploid level to a haploid genome and recombining chromosome arms by crossing-over. In animals, all this happens during formation of eggs and sperm - in yeasts before spore formation. The mechanisms of reciprocal exchange at crossover/chiasma sites are central to mainstream meiosis. To initiate the meiotic exchange of DNA, surgical cuts are made as a form of calculated damage that subsequently is repaired by homologous recombination. These key events are accompanied by ancillary provisions at the level of chromatin organization, sister chromatid cohesion and differential centromere connectivity. Great progress has been made in recent years in our understanding of these mechanisms. Questions still open primarily concern the placement of and mutual coordination between neighboring crossover events. Of overlapping significance, this book features two comprehensive treatises of enzymes involved in meiotic recombination, as well as the historical conceptualization of meiotic phenomena from genetical experiments. More specifically, these mechanisms are addressed in yeasts as unicellular model eukaryotes. Furthermore, evolutionary subjects related to meiosis are treated.

Unsolved Problems in Ecology Andrew Dobson 2020-06-02 "This volume provides a series of essays on open questions in ecology with the overarching goal being to outline to the most important, most interesting or most fundamental problems in ecology that need to be addressed. The contributions span ecological subfields, from behavioral ecology and population ecology to disease

ecology and conservation and range in tone from the technical to more personal meditations on the state of the field. Many of the chapters start or end in moments of genuine curiosity, like one which takes up the question of why the world is green or another which asks what might come of a thought experiment in which we "turn-off" evolution entirely"--

Transposable Elements and Genome Evolution J. F. McDonald 2012-12-06 Once considered merely `selfish' or `parasitic' DNA, transposable elements are today recognized as being of major biological significance. Not only are these elements a major source of mutation, they have contributed both directly and indirectly to the evolution of genome structure and function. On October 8-10, 1999, 100 molecular biologists and evolutionists representing 11 countries met on the campus of The University of Georgia in Athens for the inaugural Georgia Genetics Symposium. The topics of presentations ranged from how the elements themselves have evolved to the impact transposable elements have had on the evolution of their host genomes. The papers in this volume therefore represent state-of-the-art thinking, by leading world experts in the field, on the evolutionary significance of transposable elements.

Power, Sex, Suicide Nick Lane 2006-10-26 Mitochondria are tiny structures located inside our cells that carry out the essential task of producing energy for the cell. They are found in all complex living things, and in that sense, they are fundamental for driving complex life on the planet. But there is much more to them than that. Mitochondria have their own DNA, with their own small collection of genes, separate from those in the cell nucleus. It is thought that they were once bacteria living independent lives. Their enslavement within the larger cell was a turning point in the evolution of life, enabling the development of complex organisms and, closely related, the origin of two sexes. Unlike the DNA in the nucleus, mitochondrial DNA is passed down exclusively (or almost exclusively)

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via the female line. That's why it has been used by some researchers to trace human ancestry daughter-to-mother, to 'Mitochondrial Eve'. Mitochondria give us important information about our evolutionary history. And that's not all. Mitochondrial genes mutate much faster than those in the nucleus because of the free radicals produced in their energy-generating role. This high mutation rate lies behind our ageing and certain congenital diseases. The latest research suggests that mitochondria play a key role in degenerative diseases such as cancer, through their involvement in precipitating cell suicide. Mitochondria, then, are pivotal in power, sex, and suicide. In this fascinating and thought-provoking book, Nick Lane brings together the latest research findings in this exciting field to show how our growing understanding of mitochondria is shedding light on how complex life evolved, why sex arose (why don't we just bud?), and why we age and die. This understanding is of fundamental importance, both in understanding how we and all other complex life came to be, but also in order to be able to control our own illnesses, and delay our degeneration and death. 'An extraordinary account of groundbreaking modern science... The book abounds with interesting and important ideas.' Mark Ridley, Department of Zoology, University of Oxford

Meiosis Carol Bernstein 2013-09-11 Meiosis is the key process underlying sexual reproduction in eukaryotes, occurring in single-celled eukaryotes and in most multicellular eukaryotes including animals and most plants. Thus meiosis is of considerable interest, both at the scientific level and at the level of natural human curiosity about sexual reproduction. Improved understanding of important aspects of meiosis has emerged in recent years and major questions are starting to be answered, such as: How does meiosis occur at the molecular level, How did meiosis and sex arise during evolution, What is the major adaptive function of meiosis and sex. In addition, changing perspectives on meiosis and sex have led to the question: How should meiosis be taught. This book

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proposes answers to these questions, with extensive supporting references to the current literature.
National Library of Medicine Current Catalog National Library of Medicine (U.S.) 1991

Evolutionary Biology Ross J. MacIntyre 2013-04-17 After volume 33, this book series was replaced by the journal "Evolutionary Biology." Please visit www.springer.com/11692 for further information. This volume is the 33rd in this series, which includes 32 numbered volumes and an unnumbered supplement. Several special volumes have also been published as separate monographs. This volume, like the others in the series, has chapters devoted to a broad spectrum of topics. Indeed, the editors continue to solicit manuscripts on subjects covered by the encompassing rubric of Evolutionary Biology. "Volume 33 continues the grand tradition of Evolutionary Biology in being the most comprehensive series in the field. The chapters are always up-to-date, informative, and stimulating; sometimes infuriating. Just what good scientific literature should be! Particularly attractive is the free-wheeling spirit of the series: no style or length is imposed. If you want to remain cognizant of contemporary evolutionary advances in general and have time to read only one volume a year outside your own specialty, make it Evolutionary Biology." (Jeffrey R. Powell, Ph.D., Yale University)

On Evolution John C. Avise 2007-09-17 John Avise is one of the most distinguished evolutionary biologists of our time. His groundbreaking work with mitochondrial DNA created the entire discipline of phylogeography and his work on the Pleistocene refugia hypothesis redirected scientific thinking about patterns of distribution. Spanning a remarkable thirty-five-year career, the essays gathered here were rewritten from his previously published articles and represent the first single-volume collection of Avise's work. Moving through various questions in evolutionary biology, these eclectic essays reveal Avise's unique perspectives on major topics in the field. From how to define a

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species to the folly of faulty applications of cladistics to connections between conservation and evolutionary biology, On Evolution takes the reader on a personal journey into the mind of one of the world's leading evolutionists.

The Role of DNA Damage and Repair in Cell Aging B.A. Gilchrest 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.

Parasitology and Microbiology Research Gilberto Antonio Bastidas Pacheco 2020-06-17 The study of

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both unicellular and multicellular living beings and the diseases they produce from a biological point of view requires constant review of their relationship with their host and environment, given their indisputable sanitary importance. In this sense, in parasitology and microbiology, updated and concise information on life cycle, taxonomic classification, clinical manifestations, diagnosis, treatment, epidemiological behavior, and control measures is of vital importance. This is what we pursue with this book. The approach to parasitology and microbiology and the research that is carried out on it is unquestionable because the associations between life forms have been present from the very beginning of life. Research in parasitology and microbiology is necessary and indispensable for controlling diseases that affect much of the world with serious economic and social consequences. The challenge is to promote research to keep these diseases at bay. This book shows what has been done up to now and what can be done in the future to combat infectious diseases.

Oxidative Stress and Aging R.C. Cutler 2012-12-06 Oxidative stress and aging Over the past several years there has been an extraordinarily rapid growth in our knowledge of free radical chemistry and its possible involvement in both normal essential biology and age related disease and dysfunction. Much of this growth in the traditionally separate sciences of chemistry and molecular gerontology occurred independently, with little interaction or communication between the scientists working in these two fields. In view of the growing maturity of the two fields and the potential importance of advancing our knowledge in the area of oxidative stress and aging, we perceived a critical need to organize an international conference the "First International Conference on Oxidative Stress and Aging" in Hawaii in 1994 to bring together the world's leading scientists in the fields of reactive oxygen species and molecular gerontology. The objective of this conference was to provide a unique opportunity for scholars working in these two related and rapidly growing fields to

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participate in the exchange, integration, and synthesis of new concepts and ideas, to engage in constructive criticism and to initiate new collaborative research projects. The conference focused on the molecular and cellular aspects of aging as related to oxidative stress. It was one of the largest and most comprehensive international conferences held in molecular gerontology. At this conference a call was made for submission of papers to be used in the publication of a book covering the major contributions of the meeting.

Rotifer Symposium VI John Gilbert 2012-12-06 As in previous symposia, some current research topics were selected for review and eight invited papers were presented. For the first time a paper was presented on the historical aspects of Rotiferology, covering European research between 1680-1950. A special workshop session was devoted to a debate on a controversial topic: Rotifer Phylogeny. The workshop resulted in a very successful discussion and the integration of scattered evidence and hypotheses on the phylogenetic origin of rotifers, the relationships between major rotifer groups, and the mechanisms of evolution.

The Striatal DNA Damage and Neurodegenerations Jinbin Xu 2020 Reactive oxygen species (ROS) are produced during normal metabolic reactions in living cells. ROS causes oxidative damage to many types of biomolecules. An age-related increase in oxidative damage to DNA and RNA has been described in the human neurons, which play a vital role in the progression of age-associated neurodegeneration. As dopamine metabolism is believed to be the primary source of ROS, oxidative insults correlate with dopamine levels in the striatum during the progression of neurodegenerative diseases. Parallel changes in dopamine concentrations and vesicular monoamine transporter 2 (VMAT2) binding densities in the striatum were observed. Besides Fenton oxidation taking place, the packing of cytosolic dopamine into synaptic vesicles by VMAT2 inhibits its autoxidation and

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subsequent decay of dopaminergic neurons. The female bias in the DNA damage in the late-stage Parkinson disease (PD) patients suggests that the sex-determining region of the Y chromosome (SRY) genes are critically involved. ROS are involved in regulating the rate of the aging procession in healthy cohorts and an increased life span of patients with neurodegenerative diseases via stimulation of protective stress responses. Moreover, the DNA repair pathway, a mechanism, as genetic modifiers determine the age at onset through a ROS-inducing mutation.

Cell Immortalization Alvaro Macieira-Coelho 2013-04-17 The problem of the long-term proliferation of cells is a seminal one. It has always been a hot subject in biology, a source of far-reaching hypotheses, even more so now when explanations for the mechanisms of cell proliferative mortality or immortality seem within our reach. A question which is still debated is whether an infinite division potential can be a normal trait or is always the result of modifications leading to abnormal cell growth and escape from homeostasis. In general, investigators have been advocates of one of the two extremes, universal limited or unlimited normal proliferative potential. Since the long-term proliferative potential of cells concerns regulation of development, regeneration of tissues, and homeostatic control of cell growth, in brief survival of living organisms, and since the regulation of these processes is so different along the evolutionary scale, it is not surprising that there does not seem to be any universal trait. The question of whether cells are endowed with finite or infinite proliferative phenotypes has to be seen using the perspective of comparative biology.

Evolutionary Biology—A Transdisciplinary Approach Pierre Pontarotti 2020-10-29 This book includes 16 selected contributions presented at the 23rd Evolutionary Biology Meeting, which took place in Marseille in September 2019. The annual Evolutionary Biology Meetings in Marseille serve to gather leading evolutionary biologists and other scientists using evolutionary biology concepts.

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e.g. for medical research. The aim of these meetings is to promote the exchange of ideas to encourage interdisciplinary collaborations. Offering an up-to-date overview of recent findings in the field of evolutionary biology, this book is an invaluable source of information for scientists, teachers and advanced students.

Molecular Biology and Biotechnology Robert Allen Meyers 1995-06-29 This is one volume 'library' of information on molecular biology, molecular medicine, and the theory and techniques for understanding, modifying, manipulating, expressing, and synthesizing biological molecules, conformations, and aggregates. The purpose is to assist the expanding number of scientists entering molecular biology research and biotechnology applications from diverse backgrounds, including biology and medicine, as well as physics, chemistry, mathematics, and engineering.

ADP-Ribosylation: Metabolic Effects and Regulatory Functions Joel Moss 2012-12-06 Considering the current interest in cellular regulation and intracellular signalling systems, it is surprising that the contribution of ADP-ribosylation reactions to the modulation of a variety of specific cell processes, in parallel with other post-translational modifications such as phosphorylation, has not been generally recognized. While it is not feasible to cover all aspects of ADP-ribosylation, the thirty-one articles contained in this volume provide a valuable overview of recent progress in the field within the context of cell control mechanisms. For the convenience of the reader, the various topics have been grouped into several sections: (a) poly(ADP-ribosyl)ation; (b) mono-ADP-ribosylation; (c) toxin mono-ADP-ribosylation; (d) inhibitors and activators; (e) protein modification with ADP-ribose and its analogues; and (f) non-modification forms of ADP-ribose. The contents of the individual chapters reflect the ideas of the contributors, many of whom have spent their careers attempting to resolve the biological functions of ADP-ribosylation. We hope that this publication will serve as a useful

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reference for those investigators that are new to the area as well as those who are actively studying ADP-ribosylation.

Understanding Ageing Robin Holliday 1995-01-27 This book presents a completely novel approach to the understanding of ageing, which many believe is an unsolved problem in biology. It explains why ageing exists in animals, and reviews our understanding of it at the biological level. This includes a discussion of the origins and evolution of ageing. The book is not a review of research on ageing, but instead draws on material from a wide range of disciplines, including the very extensive biomedical information about age-related diseases in humans. Understanding Ageing argues that much research needs to be done on the cellular and molecular aspects of ageing, if the origins of these diseases are to be understood, and their prevention made possible. This thought-provoking book will appeal to all students and researchers who are interested in ageing, whether they are working in the clinical or basic research sphere.

DNA Repair Inna Kruman 2011-11-07 The book consists of 31 chapters, divided into six parts. Each chapter is written by one or several experts in the corresponding area. The scope of the book varies from the DNA damage response and DNA repair mechanisms to evolutionary aspects of DNA repair, providing a snapshot of current understanding of the DNA repair processes. A collection of articles presented by active and laboratory-based investigators provides a clear understanding of the recent advances in the field of DNA repair.

Cognitive Ecology Reuven Dukas 1998-07-06 Cognitive Ecology lays the foundations for a field of study that integrates theory and data from evolutionary ecology and cognitive science to investigate how animal interactions with natural habitats shape cognitive systems, and how constraints imposed on nervous systems limit or bias animal behavior. Using critical literature reviews and theoretical

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models, the contributors provide new insights and raise novel questions about the adaptive design of specific brain capacities and about optimal behavior subject to the computational capabilities of brains.

The Anti-Aging Solution Vincent Giampapa 2004-03-04 A medically proven program to prevent and reverse the DNA damage that causes aging You have it in your power to retain the health, beauty, and vitality of youth well past fifty or sixty and beyond. All of us grow older, but it's a medically proven fact that how we age is a choice. With a few simple lifestyle changes, you can reap amazing visible and tangible benefits in just a few days--and this groundbreaking book shows you how. Written by an all-star team of internationally acclaimed anti-aging experts, *The Anti-Aging Solution* is the first guide to reveal how you can reverse aging on a genetic level. By following a uniquely effective five-step program--which includes stress-reduction techniques, easy-to-follow dietary guidelines, moderate exercise, inexpensive skin treatments, and supplements--you can reverse DNA damage, enhance DNA repair, and start to look younger, feel younger, and be younger right away. The *Anti-Aging Solution* shows you how to: * Say goodbye to aching joints, sagging skin, and fatigue * Improve the quality and function of the genetic material in your cells * Ramp up your body's self-repair functions * Increase your stamina, endurance, and sex drive * Dramatically improve your resistance to disease, including many cancers * Have more youthful, radiant skin

The Genetics of Cancer B.A. Ponder 2012-12-06 It has been recognized for almost 200 years that certain families seem to inherit cancer. It is only in the past decade, however, that molecular genetics and epidemiology have combined to define the role of inheritance in cancer more clearly, and to identify some of the genes involved. The causative genes can be tracked through cancer-prone families via genetic linkage and positional cloning. Several of the genes discovered have

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subsequently been proved to play critical roles in normal growth and development. There are also implications for the families themselves in terms of genetic testing with its attendant dilemmas, if it is not clear that useful action will result. The chapters in *The Genetics of Cancer* illustrate what has already been achieved and take a critical look at the future directions of this research and its potential clinical applications.

The Major Transitions in Evolution Revisited Brett Calcott 2011-04-22 Drawing on recent advances in evolutionary biology, prominent scholars return to the question posed in a pathbreaking book: how evolution itself evolved. In 1995, John Maynard Smith and Eörs Szathmáry published their influential book *The Major Transitions in Evolution*. The "transitions" that Maynard Smith and Szathmáry chose to describe all constituted major changes in the kinds of organisms that existed but, most important, these events also transformed the evolutionary process itself. The evolution of new levels of biological organization, such as chromosomes, cells, multicelled organisms, and complex social groups radically changed the kinds of individuals natural selection could act upon. Many of these events also produced revolutionary changes in the process of inheritance, by expanding the range and fidelity of transmission, establishing new inheritance channels, and developing more open-ended sources of variation. Maynard Smith and Szathmáry had planned a major revision of their work, but the death of Maynard Smith in 2004 prevented this. In this volume, prominent scholars (including Szathmáry himself) reconsider and extend the earlier book's themes in light of recent developments in evolutionary biology. The contributors discuss different frameworks for understanding macroevolution, prokaryote evolution (the study of which has been aided by developments in molecular biology), and the complex evolution of multicellularity.

[How and why We Age](#) Leonard Hayflick 1996 "How long can humans live? Is immortality possible?"

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Just what is the aging process? The aging and inevitable death of the human body have inspired more myths and outrageous quackery than anything else subject to scientific inquiry. . . . Now comes a most fascinating book, insightful and scholarly, to provide what answers have emerged so far." -- San Francisco Chronicle Here, at last, preeminent cell biologist Leonard Hayflick presents the truth about human aging. Based on more than thirty years of pioneering research in the field, *How and Why We Age* explores not only how our major biological systems change as we grow older, but also examines the intangible alterations in our modes of thinking and feeling, our moods and sexual desires, our personality traits and our memories. With the immediacy of the latest scientific discoveries, Dr. Hayflick explains how aging affects every part of the body, and dispels many of the most persistent aging myths, to show that: * Hearts do not naturally get weaker with age. * Regular exercise and a low-fat diet won't slow aging. * Curing cancer would only add two years to the average sixty-five-year-old American life. Curing heart disease, however would add fourteen years. * Only five percent of people over the age of sixty-five are in nursing homes * No human has lived--or probably can live--past 120 years. Gracefully written, clearly organized, and packed with essential facts and statistics, *How and Why We Age* is a landmark study of the aging process for readers of all ages. "Written in clear, nontechnical language, it is an excellent introduction to the scientific and demographic literature on this multifaceted subject." --Nature

DNA Repair Fritz Eckstein 2012-12-06 DNA is the central repository of genetic information in the cell, yet it is under constant attack by chemical mutagens, radiation and other processes. Cells therefore put a great deal of resources into repairing any damage to this precious store.

Mechanisms of DNA repair vary greatly in their level of complexity, from specific reversal mechanisms that involve a single protein, to sequential pathways that require many enzymes. But at

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the heart of all these mechanisms lie proteins that recognize damage to DNA, raising important questions about how damaged DNA may be distinguished. These recognition processes are now finally yielding their secrets to structural analysis. This volume focuses on DNA repair, with an emphasis on structural data where available.

Progress in Botany / Fortschritte der Botanik Karl Esser 2012-12-06 With one new volume each year, this series keeps scientists and advanced students informed of the latest developments and results in all areas of botany. The present volume includes reviews on structural botany, taxonomy, geobotany, plant physiology, genetics, and floral ecology.

Evolutionary Bioinformatics Donald R. Forsdyke 2016-04-27 Now in its third edition and supplemented with more online material, this book aims to make the "new" information-based (rather than gene-based) bioinformatics intelligible both to the "bio" people and the "info" people. Books on bioinformatics have traditionally served gene-hunters, and biologists who wish to construct family trees showing tidy lines of descent. While dealing extensively with the exciting topics of gene discovery and database-searching, such books have hardly considered genomes as information channels through which multiple forms and levels of information have passed through the generations. This "new bioinformatics" contrasts with the "old" gene-based bioinformatics that so preoccupies previous texts. Forms of information that we are familiar with (mental, textual) are related to forms with which we are less familiar (hereditary). The book extends a line of evolutionary thought that leads from the nineteenth century (Darwin, Butler, Romanes, Bateson), through the twentieth (Goldschmidt, White), and into the twenty first (the final works of the late Stephen Jay Gould). Long an area of controversy, diverging views may now be reconciled.

Hormones and Neural Aging: Lessons From Experimental Models Isabel Varela-Nieto

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2019-01-23 How can we slow the signs of aging? Although aging is a natural process for all living things, doing so without dramatic alterations of health and well-being is an important aim in health care. Understanding this gradual but continuous process is fundamental in order to avoid, or at least improve, aging associated illnesses and conditions. The reviews and studies compiled here address various aspects of the relationship between systemic and central changes during the aging process, with hormonal signals as the important liaison.

Critical Reviews of Oxidative Stress and Aging Richard G. Cutler 2003 This two-volume reference examines the translational research field of oxidative stress and ageing. It focuses on understanding the molecular basis of oxidative stress and its associated age-related diseases, with the goal of developing new methods for treating the human ageing processes.

The p53 Tumor Suppressor Pathway and Cancer Gerard P. Zambetti 2007-07-03 The current year (2004) marks the Silver Anniversary of the discovery of the p53 tumor suppressor. The emerging field first considered p53 as a viral antigen and then as an oncogene that cooperates with activated ras in transforming primary cells in culture. Fueling the concept of p53 acting as a transforming factor, p53 expression was markedly elevated in various transformed and tumorigenic cell lines when compared to normal cells. In a simple twist of fate, most of the studies conducted in those early years inadvertently relied on a point mutant of p53 that had been cloned from a normal mouse genomic library. A bona fide wild-type p53 cDNA was subsequently isolated, ironically, from a mouse teratocarcinoma cell line. A decade after its discovery, p53 was shown to be a tumor suppressor that protects against cancer. It is now recognized that approximately half of all human tumors arise due to mutations within the p53 gene. As remarkable as this number may seem, it significantly underrepresents how often the p53 pathway is targeted during tumorigenesis. It is my personal

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view, as well as many in the p53 field, that the p53-signaling pathway is corrupted in nearly 100% of tumors. If you are interested in understanding cancer and how it develops, you must begin by studying p53 and its pathway. After demonstrating that p53 functions as a tumor suppressor the field exploded and p53 became a major focus of scientists around the world.

Brain Aging and Therapeutic Interventions Mahendra K. Thakur 2012-12-11 This book brings together most up-to-date information on different aspects of brain aging and on the strategies for intervention and therapy of age-related brain disorders. It includes 18 chapters by leading researchers, and each chapter is a comprehensive and critical review of the topic in question, discusses the current scenario and focuses on future perspectives. The target readership is the undergraduate and graduate students in the universities, in medical and nursing colleges, along with the post-graduate researchers and practicing clinicians who would like to know about the latest developments in the field of neurodegenerative disorders and their therapeutic interventions. This book will be of much interest to pharmaceutical, nutrition and healthcare industry for an easy access to accurate and reliable information in the field of aging research and intervention.

Darwinian Dynamics Richard E. Michod 2021-01-12 The concept of fitness has long been a topic of intense debate among evolutionary biologists and their critics, with its definition and explanatory power coming under attack. In this book, Richard Michod offers a fresh, dynamical interpretation of evolution and fitness concepts. He argues that evolution has no enduring products; what matters is the process of genetic change. Whereas many biologists have focused on competition and aggression as determining factors in survival, Michod, by concentrating on the emergence of individuality at new and more complex levels, finds that cooperation plays even a greater role. Michod first considers the principles behind the hierarchically nested levels of organization that constitute life:

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genes, chromosomes, genomes, cells, multicellular organisms, and societies. By examining the evolutionary transitions from the molecular level up to the whole organism, the author explains how cooperation and conflict in a multilevel setting leads to new levels of fitness. He builds a model of fitness drawing on recent developments in ecology and multilevel selection theory and on new explanations of the origin of life. Michod concludes with a discussion of the philosophical implications of his theory of fitness, a theory that addresses the most fundamental and unique concept in all of biology.

Molecular Gerontology S.I. Rattan 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.

Ageing, Sex, and DNA Repair Gerard Meurant 2012-12-02 Why organisms age and why sexual reproduction exists are major unsolved problems in biology. This book provides an integrated explanation of aging and sex based on current knowledge of DNA damage and repair. Discusses the universality of the problem of DNA damage Describes aging as a consequence of accumulated DNA damage Considers meiosis as an adaptation for DNA repair Discusses mating in eukaryotes as an adaptation for masking mutation

Epigenetics of Aging Trygve O. Tollefsbol 2009-11-11 Recent studies have indicated that epigenetic processes may play a major role in both cellular and organismal aging. These epigenetic processes

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include not only DNA methylation and histone modifications, but also extend to many other epigenetic mediators such as the polycomb group proteins, chromosomal position effects, and noncoding RNA. The topics of this book range from fundamental changes in DNA methylation in aging to the most recent research on intervention into epigenetic modifications to modulate the aging process. The major topics of epigenetics and aging covered in this book are: 1) DNA methylation and histone modifications in aging; 2) Other epigenetic processes and aging; 3) Impact of epigenetics on aging; 4) Epigenetics of age-related diseases; 5) Epigenetic interventions and aging; and 6) Future directions in epigenetic aging research. The most studied of epigenetic processes, DNA methylation, has been associated with cellular aging and aging of organisms for many years. It is now apparent that both global and gene-specific alterations occur not only in DNA methylation during aging, but also in several histone alterations. Many epigenetic alterations can have an impact on aging processes such as stem cell aging, control of telomerase, modifications of telomeres, and epigenetic drift can impact the aging process as evident in the recent studies of aging monozygotic twins. Numerous age-related diseases are affected by epigenetic mechanisms. For example, recent studies have shown that DNA methylation is altered in Alzheimer's disease and autoimmunity. Other prevalent diseases that have been associated with age-related epigenetic changes include cancer and diabetes. Paternal age and epigenetic changes appear to have an effect on schizophrenia and epigenetic silencing has been associated with several of the progeroid syndromes of premature aging. Moreover, the impact of dietary or drug intervention into epigenetic processes as they affect normal aging or age-related diseases is becoming increasingly feasible.

Critical Reviews Oxidative Stress And Aging: Advances In Basic Science, Diagnostics And Intervention (In 2 Vols) Cutler Richard G 2002-10-28 This innovative and comprehensive

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reference book provides the most up-to-date information pertaining to the translational research field of oxidative stress and aging. The book focuses on understanding the molecular basis of oxidative stress and its associated age-related diseases with the goal being the development of new and novel methods in treating the human aging processes. The book charts the course of this new and rapidly emerging field of Oxidative Stress Diagnostics and Therapeutics that will have a significant impact on the future economics, science and practice of medicine. Over 100 of the leading experts in this field whose specialty includes biogerontology, geriatric medicine, free radical chemistry and biology, oncology, cardiology, neurobiology, dermatology, pharmacology, nutrition, and molecular medicine, have contributed information to this book. This reference book is an essential reading material to a broad range of individuals including researchers, physicians, corporate industry leaders, graduate and medical school students, as well as the many health conscious individuals who wish to know more about the emerging field of oxidative stress and aging with an emphasis on diagnostics and intervention.

Evolutionary Genetics R. S. Singh 2000-03-28 This book brings out the central role of evolutionary genetics in all aspects of its connection to evolutionary biology.

DNA Payam Behzadi 2021-05-19 DNA is the most important biomolecule ever discovered. Indeed, this molecule bears genetic information from one generation to another. In this regard, DNA bases have a key role in transferring genetic information and data safely. However, there are cellular, genetic, and environmental factors that may damage the different parts of DNA molecules. These damages may result in mutations and cell death. As such, several DNA repair mechanisms have evolved. Over three sections, this book examines many of these mechanisms.

Reviews of Physiology, Biochemistry and Pharmacology 139 M. P. Blaustein 1999-06-25 In this

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volume of Reviews of Physiology, Biochemistry and Pharmacology there a contributions by M.D. Swope, E. Lolis, F.Hofmann, L. Lacinova, N. Klugbauer, M. Hermann, P. Berger, S.S. Shen, J.S. Kim, M.E. Weksler, M. Hirsch-Kauffmann and M.Schweiger.

A Means to an End William R. Clark 2002 Draws on recent discoveries in the fields of cell biology and molecular genetics to explore the biology of aging and examine the possibilities and implications of extended life spans

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