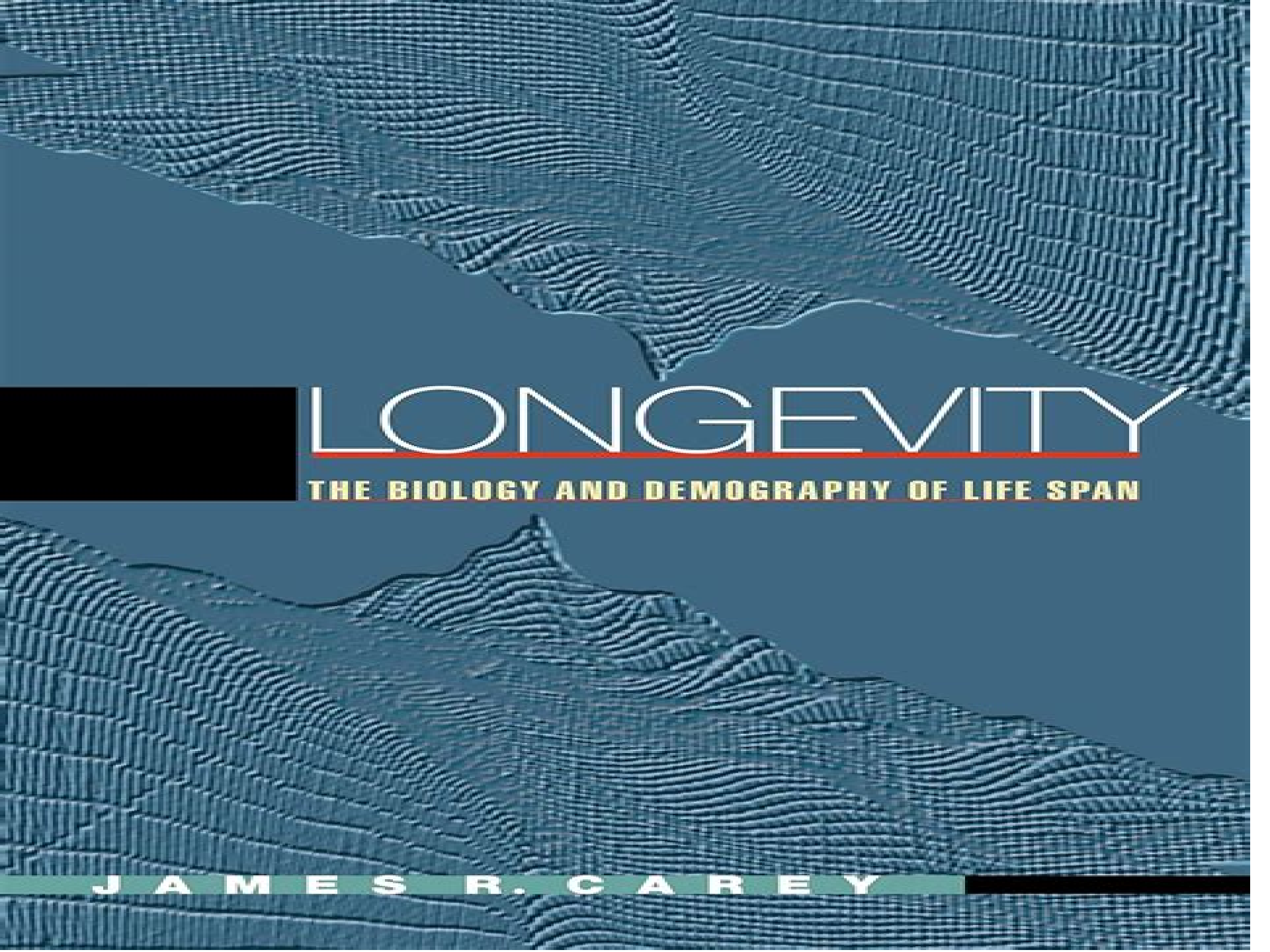




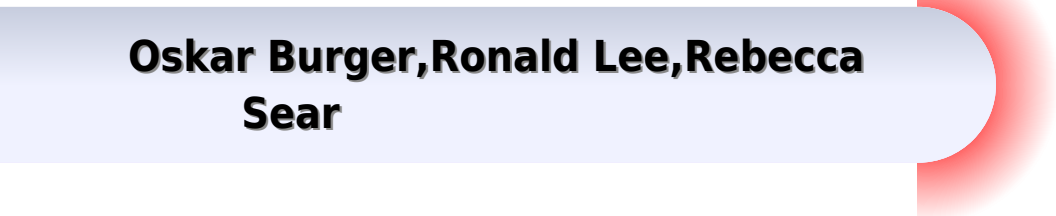
LONGEVITY

THE BIOLOGY AND DEMOGRAPHY OF LIFE SPAN

JAMES R. CAREY

Longevity The Biology And Demography Of Life Span

**Oskar Burger, Ronald Lee, Rebecca
Sear**



Longevity The Biology And Demography Of Life Span:

Longevity James R. Carey, 2003-03-02 Despite our deep interest in mortality little is known about why some individuals live to middle age and others to extreme old age Life span mortality and aging present some of the most profound mysteries in biology In Longevity James Carey draws on unprecedented data to develop a biological and demographic framework for identifying the key factors that govern aging life span and mortality in humans and other animals Carey presents the results of a monumental twelve year National Institute on Aging funded research project on the determinants of longevity using data from the life tables of five million Mediterranean fruit flies the most comprehensive set of life table studies ever on the mortality dynamics of a single species He interprets the fruit fly data within the context of human aging and the aging process in general to identify the determinants of mortality Three key themes emerge the absence of species specific life span limits the context specific nature of the mortality rate and biodemographic linkages between longevity and reproduction A powerful foundation for the emerging field of biodemography and a rich framework for considering the future of human life span Longevity will be an indispensable resource for readers from a range of fields including population biology demography gerontology ecology evolutionary biology and medical research

Biodemography of Aging

Anatoliy I. Yashin, Eric Stallard, Kenneth C. Land, 2016-08-22 This volume is a critical exposition of the data and analyses from a full decade of rigorous research into how age related changes at the individual level along with other factors contribute to morbidity disability and mortality risks at the broader population level After summarizing the state of our knowledge in the field individual chapters offer enlightening discussion on a range of key topics such as age trajectory analysis in select and general populations incidence age patterns of major chronic illnesses and indices of cumulative deficits and their use in characterizing and understanding the detailed properties of individual aging The book features comprehensive statistical analyses of unique longitudinal data sets including the unique resource of the Framingham Heart Study with its more than 60 years of follow up Culminating in penetrating conclusions about the insights gained from the work involved this book adds much to our understanding of the links between aging and human health

Human Longevity, Individual Life Duration, and the Growth of the Oldest-Old Population

Jean-Marie Robine, Eileen M. Crimmins, Shiro Horiuchi, Yi Zeng, 2007-03-21 Old age survival has considerably improved in the second half of the twentieth century Life expectancy in wealthy countries has increased on average from 65 years in 1950 to 76 years in 2005 The rise was more spectacular in some countries the life expectancy for Japanese women rose from 62 years to 86 years during the same period Driven by this longevity extension the population aged 80 and over in those countries has grown fivefold from 8.5 million in 1950 to 44.5 million in 2005 Why has such a substantial extension of human lifespan occurred How long can we live In this book these fundamental questions are explored by experts from such diverse fields as biology medicine epidemiology demography sociology and mathematics they report on recent cutting edge studies about essential issues of human longevity such as evolution of lifespan of species

genetics of human longevity reasons for the recent improvement in survival of the elderly medical and behavioral causes of deaths among very old people and social factors of long survival in old age Handbook of Population Dudley L. Poston, Michael Micklin, 2006-08-10 This comprehensive handbook provides an overview and update of the issues theories processes and applications of the social science of population studies The volume s 30 chapters cover the full range of conceptual empirical disciplinary and applied approaches to the study of demographic phenomena This book is the first effort to assess the entire field since Hauser and Duncan s 1959 classic The Study of Population The chapter authors are among the leading contributors to demographic scholarship over the past four decades They represent a variety of disciplines and theoretical perspectives as well as interests in both basic and applied research *Demography - Volume II* Zeng Yi, 2010-11-30 Zeng Yi is a Professor at the Center for the Study of Aging and Human Development and Geriatric Division Dept of Medicine of Medical School and Institute of Population Research and Dept of Sociology Duke University He is also a Professor at the China Center for Economic Research National School of Development at Peking University in China and Distinguished Research Scholar of the Max Planck Institute for Demographic Research MPIDR in Germany He received his doctoral degree from Brussels Free University in May 1986 and conducted post doctoral study at Princeton University in 1986 87 Up to Feb 2008 he has had 81 professional articles written in English published in academic journals or as book chapters in the United States and Europe among them 51 articles were published in anonymous peer reviewed academic journals He has had 85 professional articles written in Chinese and published in China among them 55 articles were published in national top Chinese academic journals He has published sixteen books including five research books as first author such as Family Dynamics in China published by the University of Wisconsin Press one textbook on demographic methods as the sole author two volumes of demographic software and user s manuals as the first author on family status life table analysis six edited books four as the chief editor and two as the second editor such as the 2005 and 2008 books published by Springer for which he served as the chief editor Six of Zeng Yi s published books were written in English one was written in both Chinese and English and the remainders were written in Chinese Zeng Yi has been awarded more than ten national and international academic prizes such as the Dorothy Thomas Prize of the Population Association of America the Harold D Lasswell Prize in Policy Science awarded by the international journal Policy Sciences and Kluwer Academic Publishers the second class prize for advancement of science and technology awarded by the State Sciences and Technology Commission of China the first class prize for advancement of science and technology awarded by the State Education Commission and the highest academic honor of Peking University Prize for Outstanding Contributions in Sciences According to the search report up to March 1 2008 the internationally most important literature sources SSCI Social Science Citation Index and SCI Science Citation Index published in the U S indicate that Zeng Yi s articles and books have been cited in 755 journal articles by authors other than Zeng Yi Among them 440 citations refer to the work of Zeng Yi as the first author 315

citations refer to the work of Zeng Yi as a co author Zeng Yi is one of the authors of High Impact Papers worldwide in the period of 1981-1998 as announced by International Scientific Institute ISI in September 2000 Life Span James R. Carey, Shripad Tuljapurkar, 2003 **Handbook of Population** Dudley L. Poston Jr., 2019-04-16 The 2nd edition of the Handbook of Population covers the major topics of the discipline of demography including current substantive methodological and theoretical issues of interest as well as new and emerging topics in the field In addition to revised updated and extended chapters that were included in the 1st edition this 2nd edition of the Handbook brings to the forefront entirely new chapters covering such major themes as children adoption sexuality inequality population psychology rural demography and obesity Chapters in this Handbook will expand our knowledge of the field and will raise awareness of the causes and the consequences of demographic behavior and events in societies throughout the world This 2nd edition will also serve as a reference in the field of population studies for years to come It will generate new questions and research ideas and will positively impact the growth development and expansion of demography The Demography and Epidemiology of Human Health and Aging Jacob S. Siegel, 2011-09-30 With this book Siegel an internationally known demographer and gerontologist has made a unique contribution to the fledgling fields of health demography and the demography and epidemiology of aging The book represents a felicitous union of epidemiology gerontology and demography and appears to be the first and only comprehensive text on this subject now available Drawing on a wide range of sciences in addition to demography gerontology and epidemiology including medical sociology biostatistics public policy bioethics and molecular biology the author treats theoretical and applied issues links methods and findings covers the material internationally nationally and locally and while focusing on the elderly treats the entire life course The methods materials and perspectives of demography and epidemiology are brought to bear on such topics as the prospects for future increases in human longevity the relative contribution of life style environment genetics and chance in human longevity the measurement of the share of healthy years in total life expectancy the role of population growth in the rising costs of health care and the applications of health demography in serving the health needs of local communities The separate chapters systematically develop the topics of the sources and quality of health data mortality life tables and the measurement of health status the interrelationships of health on the one hand and mortality fertility migration and age structure on the other health conditions in the less developed countries the concepts and theories of aging and projections of the aged population and local health applications public health policy and bioethical issues in health demography Given its comprehensiveness clarity interdisciplinary scope and authenticity this book appeals to a wide range of users from students and teachers of medical sociology the demography of aging and public health studies to practitioners in these areas both as a text in health demography and the demography epidemiology of aging and as a reference work in these fields *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

International Handbook on Ageing and Public Policy Sarah Harper, Kate Hamblin, 2014-08-29 With the collective knowledge of expert contributors in the field The International Handbook on Ageing and Public Policy explores the challenges arising from the ageing of populations across the globe With an expansive look at the topic this com Applied Demography and Public Health in the 21st Century M. Nazrul Hoque, Beverly Pecotte, Mary A. McGehee, 2016-10-19 This book demonstrates different statistical techniques for analyzing health related data as well as providing new techniques for forecasting and or projecting the incidence of diseases disorders It presents information on a variety of health related issues from the developed and developing world Featuring cutting edge research from distinguished applied demographers and public health specialists the book bridges the gap between theory and research Each chapter provides methods and materials that can be used to conduct further research aimed at promoting public health issues This book is intended for public health professionals health policy makers social epidemiologists administrators researchers and students in the fields of applied demography and public health who are interested in exploring the potential of ground breaking research or who want to further develop their existing research techniques It complements another volume in the Applied Demography Series Applied Demography and Public Health Springer 2013 which describes how applied demographic techniques can be used to help address public health issues **Biodemography** James R. Carey, Deborah A. Roach, 2020-01-07 An authoritative overview of the concepts and applications of biological demography This book provides a comprehensive introduction to biodemography an exciting interdisciplinary field that unites the natural science of biology with the social science of human demography Biodemography is an essential resource for demographers epidemiologists gerontologists and health professionals as well as ecologists population biologists entomologists and conservation biologists This accessible and innovative book is also ideal for the classroom James Carey and Deborah Roach cover everything from baseline demographic concepts to biodemographic applications and present models and equations in discrete rather than continuous form to enhance mathematical accessibility They use a wealth of real world examples that draw from data sets on both human and nonhuman species and offer an interdisciplinary approach to demography like no other with topics ranging from kinship theory and family demography to reliability engineering tort law and demographic disasters such as the Titanic and the destruction of Napoleon s Grande Arm e Provides the first synthesis of demography and biology Covers baseline demographic models and concepts such as Lexis

diagrams mortality fecundity and population theory Features in depth discussions of biodemographic applications like harvesting theory and mark recapture Draws from data sets on species ranging from fruit flies and plants to elephants and humans Uses a uniquely interdisciplinary approach to demography bringing together a diverse range of concepts models and applications Includes informative biodemographic shorts appendixes on data visualization and management and more than 150 illustrations of models and equations The Biodemography of Reproductive Aging, Volume 1204 Maxine

Weinstein,Kathleen O'Connor,2010-09-27 This volume presents manuscripts stemming from The Workshop on Reproductive Aging held on June 5 6 2009 at Georgetown University *Human Evolutionary Demography* Oskar Burger,Ronald

Lee,Rebecca Sear,2024-06-14 Human evolutionary demography is an emerging field blending natural science with social science This edited volume provides a much needed interdisciplinary introduction to the field and highlights cutting edge research for interested readers and researchers in demography the evolutionary behavioural sciences biology and related disciplines By bridging the boundaries between social and biological sciences the volume stresses the importance of a unified understanding of both in order to grasp past and current demographic patterns Demographic traits and traits related to demographic outcomes including fertility and mortality rates marriage parental care menopause and cooperative behavior are subject to evolutionary processes Bringing an understanding of evolution into demography therefore incorporates valuable insights into this field just as knowledge of demography is key to understanding evolutionary processes By asking questions about old patterns from a new perspective the volume composed of contributions from established and early career academics demonstrates that a combination of social science research and evolutionary theory offers holistic understandings and approaches that benefit both fields Human Evolutionary Demography introduces an emerging field in an accessible style It is suitable for graduate courses in demography as well as upper level undergraduates Its range of research is sure to be of interest to academics working on demographic topics anthropologists sociologists demographers natural scientists working on evolutionary processes and disciplines which cross cut natural and social science such as evolutionary psychology human behavioral ecology cultural evolution and evolutionary medicine As an accessible introduction it should interest readers whether or not they are currently familiar with human evolutionary demography **The Routledge Handbook of**

Contemporary Inequalities and the Life Course Magda Nico,Gary Pollock,2021-12-30 Drawing upon perspectives from across the globe and employing an interdisciplinary life course approach this handbook explores the production and reproduction of different types of inequality across a variety of social contexts Inequalities are not static easily measurable and essentially quantifiable circumstances of life They are processes which impact on individuals throughout the life course interacting with each other accumulating attenuating reproducing or distorting themselves along the way The chapters in this handbook examine various types of inequality such as economic gender racial and ethnic inequalities and analyse how these inequalities manifest themselves within different aspects of society including health education and the family at

multiple levels and dimensions The handbook also tackles the global COVID 19 pandemic and its striking impact on the production and intensification of inequalities The interdisciplinary life course approach utilised in this handbook combines quantitative and qualitative methods to bridge the gap between theory and practice and offer strategies and principles for identifying and tackling issues of inequality This book will be indispensable for students and researchers as well as activists and policy makers interested in understanding and eradicating the processes of production reproduction and perpetuation of inequalities

The Encyclopedia of Adulthood and Aging, 3 Volume Set Susan K. Whitbourne, 2016-01-19 This authoritative reference work contains more than 300 entries covering all aspects of the multi disciplinary field of adult development and aging Brings together concise accurate summaries of classic topics as well as the most recent thinking and research in new areas Covers a broad range of issues from biological and physiological changes in the body to changes in cognition personality and social roles to applied areas such as psychotherapy long term care and end of life issues Includes contributions from major researchers in the academic and clinical realms 3 Volumes www.encyclopediaadulthoodandaging.com

Thesaurus of Engineering and Scientific Terms Engineers Joint Council, 1967

Handbook of Theories of Aging Vern L. Bengtson, Vern L. Bengtson, PhD, Richard Settersten, 2016-05-28 This state of the art handbook will keep researchers and practitioners in gerontology abreast of the newest theories and models of aging With virtually all new contributors and content this edition contains 35 chapters by the most highly respected luminaries in the field It addresses theories and concepts built on cumulative knowledge in four disciplinary areas biology psychology social sciences and policy and practice as well as landmark advances in trans disciplinary science With its explicit focus on theory the handbook is unique in providing essential knowledge about primary explanations for aging spanning from cells to societies The chapters in the third edition place a strong emphasis on the future of theory development assessing the current state of theories and providing a roadmap for how theory can shape research and vice versa in years to come Many chapters also address connections between theories and policy or practice Each set of authors has been asked to consider how theories in their area address matters of diversity and inequalities in aging and how theories might be revised or tested with these matters in mind The third edition also contains a new section Standing on the Shoulders of Giants which includes personal essays by senior gerontologists who share their perspectives on the history of ideas in their fields and on their experiences with the process and prospects of developing good theory

Hallmarks of the Third Edition Highlights important gains in trans disciplinary theories of aging Emphasizes the future of theory development Provides insight on theory development from living legends in gerontology Examines what human diversity and inequality mean for aging theories Emphasizes interconnections between theory research intervention and policy Underscores international issues with greater representation of international authors Includes section introductions by the editors and associate editors that summarize theoretical developments

Key Features Highlights variability and diversity in aging processes from the cellular level of

biological aging to the societal level of public policy Provides insightson theory development from living legends in gerontology Offers intergenerational interdisciplinary and international perspectives Disseminates a forward thinking future oriented focus in theory development

Clinical Evaluation Criteria for Aging and Aging-related Multimorbidity Ilia Stambler,Alexey Moskalev,2021-10-29

Biochemistry and Cell Biology of Ageing: Part II Clinical Science J. Robin Harris,Viktor I. Korolchuk,2019-03-19 This volume of the subcellular Biochemistry series will attempt to bridge the gap between the subcellular events that are related to aging as they were described in the first volume of this set of two books and the reality of aging as this is seen in clinical practice All chapters will start from the biochemistry or cell biology where the data is available and work up towards the understanding that we have of aging in the various areas that are related to the subject Key focus points for this volume are nutrition external factors and genetics on aging There will also be chapters that will focus on various organs or tissues in which aging has been well studied like the eyes the muscles the immune system and the bones The aim of the book project and the book project that is published in concert with this volume is to bring the subcellular and clinical areas into closer contact

Whispering the Techniques of Language: An Mental Quest through **Longevity The Biology And Demography Of Life Span**

In a digitally-driven world wherever screens reign supreme and immediate communication drowns out the subtleties of language, the profound strategies and psychological nuances concealed within phrases frequently go unheard. However, set within the pages of **Longevity The Biology And Demography Of Life Span** a captivating fictional prize pulsating with organic thoughts, lies an exceptional journey waiting to be undertaken. Penned by an experienced wordsmith, that enchanting opus invites viewers on an introspective trip, softly unraveling the veiled truths and profound impact resonating within the very material of each word. Within the emotional depths of the poignant evaluation, we will embark upon a heartfelt exploration of the book's primary themes, dissect its interesting publishing model, and fail to the powerful resonance it evokes heavy within the recesses of readers' hearts.

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