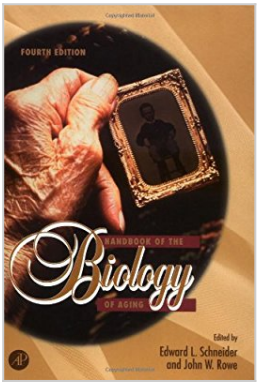

Handbook of the Biology of Aging

From Academic Press

Handbook of the Biology of Aging From Academic Press

General Description of the Series
Each volume in the **Handbooks of Aging** Series represents one of the three main influences on aging: the **Handbook of the Biology of Aging, Handbook of the Psychology of Aging**, and **Handbook of Aging and the Social Sciences**. Each of the **Handbooks** presents critical comprehensive reviews of research knowledge, theories, concepts, and issues by the foremost scholars in the field. Chapters are selected to portray discrete units of research study, long-standing areas of research, and new developments.
General Description of the Volume
The Fourth Edition of the **Handbook of the Biology of Aging** continues the tradition of providing a comprehensive overview of some of the most important topics in biomedical gerontology. It updates issues examined in previous editions and covers new advances in geriatric medicine and the neurobiology of aging. The **Handbook** is of interest to biologists involved in aging research, geriatricians, medical researchers, psychologists, sociologists, and practitioners dealing with an aging population.

Key Features
* Provides new insight into the aging of the nervous, neuroendocrine, cardiovascular, and immune systems
* Examines in more detail the molecular biology of aging
* Features new chapters on menopause and neuropsychological assessment of cognitive abilities

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- Binding: Paperback
- 507 pages

Editorial Review

Review
"This text provides an overview of important topics in biomedical gerontology. Geriatricians, medical researchers and practitioners, psychologists, sociologists, and graduate students will find this volume useful." --BIOSIS
"Many of the chapters provide outstanding coverage of their subject areas. For example, the chapter by Campis and her associates is the best that I have encountered in regard to the use of the cell culture system as a model for study of organismic senescence; these authors thoughtfully evaluate the evidence for and against the value of this model and leave the reader with a clear picture of its current status. Thus, properly used, this **Handbook** can be a valuable resource for both investigators and students of biological gerontology." --Edward J. Masoro, Ph.D., Professor Emeritus, Department of Physiology, University of Texas Health Science Center, San Antonio, in GERONTOLOGIST

From the Back Cover
The **Fifth Edition** of the **Handbook of the Biology of Aging** continues the tradition of providing a comprehensive overview of some of the most important topics in biomedical gerontology. Beginning with an introduction to concepts and theories of aging, the book is then divided into three main sections covering cellular processes in organismic aging, systemic factors in organismic aging, and models of retarded aging. The book closes with a look at the future of biomedical research as it relates to aging, health, and longevity. The **Handbook** will be of interest to biologists involved in aging research, gerontologists, medical researchers, psychologists, sociologists, and practitioners dealing with an aging population.
The **Fifth Edition**:
* opens with a broad introduction to theories and concepts of aging
* provides new insight into the cellular and systemic aspects of aging
* features new chapters on cellular proliferation, apoptosis, and environment-gene interactions

About the Author
James E. Birren is currently Associate Director of the Center on Aging at the University of California, Los Angeles, and serves as an adjunct professor in medicine, psychiatry, and biobehavioral sciences. He is also professor emeritus of gerontology and psychology at the University of Southern California. Dr. Birren's previous postions include service as Chief of the section on aging of the National Institute of Mental Health, founding Executive Director and Dean of the Ethel Percy Andrus Gerontology Center of USC, founding Director of the Anna and Harry Borun Center for Gerontological Research at UCLA, and President of the Gerontological Society of America, the Western Gerontological Society, and the Division on Adult Development and Aging of the American Psychological Association. Dr. Birren's many awards include the Brookdale Foundation Award for Gerontological Research, the Sandoz prize for Gerontological Research, and the award for outstanding contribution to gerontology by the Canadian Association of Gerontology. Author of over 250 scholarly publications, Dr. Birren has research interests including how speed of behavior changes with age, the causes and consequences of slowed information processing in the older nervous system, the effect of age on decision-making processes, and the role of expertise in skilled occupations. He has served as a delegate to several White House Conferences on Aging and continues to have a strong interest in developing national priorities for research and education related to issues of aging.

Dr. Johnson is Associate Professor for Behavioral Genetics at the University of Colorado at Boulder, where he teaches and conducts research on the genetics of aging and of alcoholism. He is widely recognized as "the major player" in the field of the genetics of aging. Among numerous other awards, he is the 1993 recipient of

the Busse Research Award for Biomedical Gerontology, presented at the International Association for Gerontology meeting in Budapest, Hungary. Dr. Johnson is a member of biological and Clinical Again: An Initial Review Group of the NIA, is on the Board of Managing Editors for *Mutation Research Experimental Gerontology* and *Journals of Gerontology, Biological Sciences*. He received the 1995 Nathan Shock Award for The Gerontology Research Center and has been elected Chair for the Gordon Conference on the Biology of Aging in 1997. A major part of his work continues to focus on the genetic basis of the aging processes, primarily in *C. elegans*.

Dr. Holbrook is an Investigator at the National Institute on Aging, where she serves as Chief of the Research Section on Gene Expression and Aging within the Laboratory of Cellular and Molecular Biology. She is a member of a number of scientific societies, including the American Association for Advancement of Science, American Society for Biochemistry and Molecular Biology, and Gerontological Society of America. Her laboratory research focuses on molecular and cellular responses to stress and the importance of these defenses to the aging process. Specific areas of interest include the regulation and function of heat shock protein expression and signal transduction pathways controlling cellular response to genotoxic stress. Dr. Holbrook is internationally recognized for her contributions in these areas, both in the aging arena as well as the general scientific community. Author of over 100 scholarly articles, she has served as a constant-reviewer for a host of journals, granting agencies, and private organizations.

Dr. Morrison is the Willard T.C. Johnson Research Professor of Geriatrics and Adult Development (Neurobiology of Aging) and Professor and Co-Director of the Fishberg Research Center for Neurobiology at the Mount Sinai School of Medicine. Dr. Morrison received his B.A. degree from Johns Hopkins University and his Ph.D. in Neuroscience from the Department of Cell Biology and Anatomy at Johns Hopkins University School of Medicine. He then went on to a postdoctoral fellowship with Dr. Floyd Bloom, in the A.V. Davis Center for Behavioral Neurobiology at the Salk Institute in La Jolla, California. Throughout his training and career as an independent scientist, Dr. Morrison's research has remained focused on the cellular and neurochemical organization of cerebral cortex. His interest in the basic organization of cerebral cortex led Dr. Morrison to carry out a series of detailed investigations of the cellular pathology of Alzheimer's disease and other neurodegenerative disorders. More recently, he has also focused on sublethal age-related changes in cortical circuits that might form the basis of selective vulnerability. He has published approximately 150 articles which reflect his dual interests in basic neurobiology of cerebral cortex and human neuropathology. Dr. Morrison is on the editorial board of several international journals, has served on N.I.H. study sections, and is on numerous advisory boards, including the Board of Directors for The American Federation for Aging Research (AFAR). In addition, Dr. Morrison has received several awards, including the Moore Award (1992) for the best paper on Clinicopatholic correlation at the annual meeting of the American Association of Neuropathologists and a Faculty Scholar Award from the Alzheimer's Disease and Related disorders Association. In addition, Dr. Morrison was the RSL Visiting Professor of Geriatric Medicine in Australia in 1993, as well as the Smith, Kline and French Visiting Professor of Neuroscience in Australia in

Users Review

From reader reviews:

Mark Logan:

Have you spare time for just a day? What do you do when you have much more or little spare time? That's why, you can choose the suitable activity to get spend your time. Any person spent their spare time to take a walk, shopping, or went to the actual Mall. How about open or even read a book eligible Handbook of the

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Michael Sweet:

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Karin Decker:

Handbook of the Biology of Aging can be one of your basic books that are good idea. All of us recommend that straight away because this guide has good vocabulary that can increase your knowledge in language, easy to understand, bit entertaining however delivering the information. The article author giving his/her effort that will put every word into satisfaction arrangement in writing Handbook of the Biology of Aging nevertheless doesn't forget the main point, giving the reader the hottest in addition to based confirm resource information that maybe you can be among it. This great information can easily drawn you into fresh stage of crucial considering.

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