



## Behavioral neurobiology of aging /

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Springer,  
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Electronic books Electronic books.

Monografía

The increased life expectancy seen in the past century constitutes an unprecedented economic challenge to modern societies. Public health perspectives aside, people do not want to simply live longer; they want to age successfully and remain physically and mentally active in their later years. Major advances in our understanding of brain aging and, in particular, the distinction between normal and pathological aging are required before this goal is realized. This volume discusses the current state of research findings related to healthy brain aging by integrating human clinical studies and translational research in animal models. Several chapters offer a unique overview of successful aging, age-related cognitive decline and its associated structural and functional brain changes, as well as how these changes are influenced by reproductive aging. Insights provided by preclinical studies in mouse models and advanced neuroimaging techniques in humans are also presented. Another series of chapters specifically discuss the distinction between normal aging and Mild Cognitive Impairment, a frequent precursor of dementia, the recent advances made through both epidemiological and neuroimaging studies, and the research challenges to be addressed before we can accurately predict progression to dementia among those older adults who are at risk. The book also covers medical and psychiatric conditions, such as cerebrovascular diseases and depression, that can negatively impact cognition. It closes with a presentation of strategies to diminish and delay age-related cognitive declines, both pharmacological and non-pharmacological. This volume provides topics that will be useful to researchers, clinicians and students interested in the current knowledge and research challenges in neurobiological perspectives in aging as well as future research directions in aging research

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**Título:** Behavioral neurobiology of aging Marie-Christine Pardon, Mark W. Bondi, editors

**Editorial:** Berlin New York Springer ©2012

**Descripción física:** 1 online resource (xiii, 359 pages)

**Tipo Audiovisual:** Medicine Neurosciences Geriatrics Animal behavior Developmental biology Biomedicine Behavioural Sciences Geriatrics/Gerontology Medicine/Public Health, general Quality of Life Research

**Mención de serie:** Current topics in behavioral neurosciences 1866-3370 10

**Bibliografía:** Includes bibliographical references and index

**Contenido:** Epidemiology of Cognitive Aging and Alzheimer's Disease: Contributions of the Cache County Utah Study of Memory, Health and Aging Kathleen M. Hayden and Kathleen A. Welsh-Bohmer. -- Successful Cognitive Aging Colin A. Depp, Alexandria Harmell and Ipsit V. Vahia. -- Behavioral Neuroscience of Emotion in Aging Alfred W. Kaszniak and Marisa Menchola. -- Studying the Impact of Aging on Memory Systems: Contribution of Two Behavioral Models in the Mouse Aline Marighetto, Laurent Brayda-Bruno and Nicole Etchamendy. -- Functional Neuroimaging Studies in Normal Aging Leslie M. Guidotti Breting, Elizabeth R. Tuminello and S. Duke Han. -- Functional Magnetic Resonance Imaging in Aging and Dementia: Detection of Age-Related Cognitive Changes and Prediction of Cognitive Decline John L. Woodard and Michael A. Sugarman. -- Neuroanatomical Changes Associated with Cognitive Aging Janice M. Juraska and Nioka C. Lowry The Impact of Age-Related Ovarian Hormone Loss on Cognitive and Neural Function Marissa I. Boulware, Brianne A. Kent and Karyn M. Frick. -- Neuropsychological Features of Mild Cognitive Impairment and Preclinical Alzheimer's Disease David P. Salmon. -- Cerebrovascular Disease and Cognition in Older Adults Gregory A. Seidel, Tania Giovannetti and David J. Libon. -- Psychiatric Disorders in Ageing C. Wijeratne, S. Reutens, B. Draper and P. Sachdev. -- The Impact of Physical and Mental Activity on Cognitive Aging Amy J. Jak. -- Potential Benefits and Limitations of Enriched Environments and Cognitive Activity on Age-Related Behavioural Decline Rosa Redolat and Patricia Mesa-Gresa. -- Reproductive Experience may Positively Adjust the Trajectory of Senescence Craig Howard Kinsley, R. Adam Franssen and Elizabeth Amory Meyer. -- Treatment Trials in Aging and Mild Cognitive Impairment Jody Corey-Bloom

**Lengua:** English

**Copyright/Depósito Legal:** 964922221 990538299 1005778293 1026442417 1027106720

**ISBN:** 9783642238758 electronic bk.) 3642238750 electronic bk.) 3642238742 print) 9783642238741 print) 3642432794 9783642432798 9783642238741

**Materia:** Brain- Aging Neurobiology Psychological Phenomena and Processes Behavioral Sciences Psychiatry and Psychology Biological Science Disciplines Adult Growth and Development Behavior Physiological Phenomena Natural Science Disciplines Age Groups Behavioral Disciplines and Activities Behavior and Behavior Mechanisms Persons Disciplines and Occupations Named Groups Phenomena and Processes Aging Mental Disorders Aged Physiology Behavioral Symptoms Psychology Mental Processes MEDICAL- Neuroscience. PSYCHOLOGY- Neuropsychology. Brain- Aging. Neurobiology.

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**Enlace a formato físico adicional:** Printed edition 9783642238741

**Punto acceso adicional serie-Título:** Current topics in behavioral neurosciences 10

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