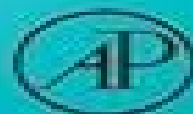


*Handbook of the*  
**Neuroscience**  
*of Aging*



*Edited by* Patrick R. Hof • Charles V. Mobbs



# Handbook Of The Neuroscience Of Aging

**Ayanna K. Thomas, Angela Gutches**



## **Handbook Of The Neuroscience Of Aging:**

Handbook of the Neuroscience of Aging Patrick R. Hof, Charles V. Mobbs, 2010-05-22 A single volume of 85 articles the Handbook of the Neurobiology of Aging is an authoritative selection of relevant chapters from the Encyclopedia of Neuroscience the most comprehensive source of neuroscience information assembled to date AP Oct 2008 The study of neural aging is a central topic in neuroscience neuropsychology and gerontology Some well known age related neurological diseases include Parkinson s and Alzheimer s but even more common are problems of aging which are not due to disease but to more subtle impairments in neurobiological systems including impairments in vision memory loss muscle weakening and loss of reproductive functions changes in body weight and sleeplessness As the average age of our society increases diseases of aging become more common and conditions associated with aging need more attention by doctors and researchers This book offers an overview of topics related to neurobiological impairments which are related to the aging brain and nervous system Coverage ranges from animal models to human imaging fundamentals of age related neural changes and pathological neurodegeneration and offers an overview of structural and functional changes at the molecular systems and cognitive levels Key pathologies such as memory disorders Alzheimer s dementia Down syndrome Parkinson s and stroke are discussed as are cutting edge interventions such as cell replacement therapy and deep brain stimulation There is no other current single volume reference with such a comprehensive coverage and depth Authors selected are the internationally renowned experts for the particular topics on which they write and the volume is richly illustrated with over 100 color figures A collection of articles reviewing our fundamental knowledge of neural aging the book provides an essential affordable reference for scientists in all areas of Neuroscience Neuropsychology and Gerontology The most comprehensive source of up to date data on the neurobiology of aging review articles cover normal sensory and cognitive aging neuroendocrine structural and molecular factors and fully address both pathology and intervention Chapters represent an authoritative selection of relevant material from the most comprehensive source of information about neuroscience ever assembled Encyclopedia of Neuroscience synthesizing information otherwise dispersed across a number of journal articles and book chapters and saving researchers the time consuming process of finding and integrating this information themselves Offering outstanding scholarship each chapter is written by an expert in the topic area and over 20% of chapters feature international contributors representing 11 countries Provides more fully vetted expert knowledge than any existing work with broad appeal for the US UK and Europe accurately crediting the contributions to research in those regions Fully explores various pathologies associated with the aging brain Alzheimer s dementia Parkinson s memory disorders stroke Down s syndrome etc Coverage of disorders and key interventions makes the volume relevant to clinicians as well as researchers Heavily illustrated with over 100 color figures

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source for information on the psychology of adult development and aging It provides comprehensive reviews of research on biological and social influences on behaviour and age related changes in psychological function

**Handbook of the Neuroscience of Language** Brigitte Stemmer, Harry A. Whitaker, 2008-04-29 In the last ten years the neuroscience of language has matured as a field Ten years ago neuroimaging was just being explored for neurolinguistic questions whereas today it constitutes a routine component At the same time there have been significant developments in linguistic and psychological theory that speak to the neuroscience of language This book consolidates those advances into a single reference The Handbook of the Neuroscience of Language provides a comprehensive overview of this field Divided into five sections section one discusses methods and techniques including clinical assessment approaches methods of mapping the human brain and a theoretical framework for interpreting the multiple levels of neural organization that contribute to language comprehension Section two discusses the impact imaging techniques PET fMRI ERPs electrical stimulation of language cortex TMS have made to language research Section three discusses experimental approaches to the field including disorders at different language levels in reading as well as writing and number processing Additionally chapters here present computational models discuss the role of mirror systems for language and cover brain lateralization with respect to language Part four focuses on language in special populations in various disease processes and in developmental disorders The book ends with a listing of resources in the neuroscience of language and a glossary of items and concepts to help the novice become acquainted with the field Editors Stemmer Whitaker prepared this book to reflect recent developments in neurolinguistics moving the book squarely into the cognitive neuroscience of language and capturing the developments in the field over the past 7 years History section focuses on topics that play a current role in neurolinguistics research aphasia syndromes and lesion analysis Includes section on neuroimaging to reflect the dramatic changes in methodology over the past decade Experimental and clinical section reflects recent developments in the field

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**Handbook of Theories of Aging** Merrill Silverstein, Vern L. Bengtson, Vern L. Bengtson, PhD, Norella Putney, Daphna Gans, 2008-10-27 The field of gerontology has often been criticized for being data rich but theory poor The editors of this book address this issue by stressing the importance of theory in gerontology While the previous edition focused on multidisciplinary approaches to aging theory this new edition provides cross disciplinary integrative explanations of aging theory The contributors of this text have reached beyond traditional disciplinary boundaries to partner with researchers in adjacent fields in studying aging and age related phenomena This edition of the Handbook consists of 39 chapters written by 67 internationally recognized experts in the field of aging It is organized in seven sections reflecting the major theoretical developments in gerontology over the past 10 years Special Features Comprehensive coverage of aging theory focusing on the biological psychological and social aspects of aging A section dedicated to discussing how aging theory informs public policy A concluding chapter summarizing the major themes of aging and offering predictions about the future of theory development Required reading for graduate students and post doctoral fellows this textbook represents the current status of theoretical development in the study of aging

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**Handbook of the Psychology of Aging** K Warner Schaie, Sherry L. Willis, 2010-12-21 The Handbook of the Psychology of Aging Seventh Edition provides a basic reference source on the behavioral processes of aging for researchers graduate students and professionals It also provides perspectives on the behavioral science of aging for researchers and professionals from other disciplines The book is organized into four parts Part 1 reviews key methodological and analytical issues in aging research It examines some of the major historical influences that might provide explanatory mechanisms for a better understanding of cohort and period differences in psychological aging processes Part 2 includes chapters that discuss the basics and nuances of executive function the history of the morphometric research on normal brain aging and the neural changes that occur in the brain with aging Part 3 deals with the social and health aspects of aging It covers the beliefs that individuals have about how much they

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**The Palgrave Handbook of the Philosophy of Aging** Geoffrey Scarre, 2017-02-16 This comprehensive handbook presents the major philosophical perspectives on the nature prospects problems and social context of age and aging in an era of dramatically increasing life expectancy Drawing on the latest research in gerontology medicine and the social sciences its twenty seven chapters examine our intuitions and common sense beliefs about the meaning of aging and explore topics such as the existential experience of old age aging in different philosophical and religious traditions the place of the elderly in contemporary society and the moral rights and responsibilities of the old This book provides innovative and leading edge research that will help to determine the parameters of the philosophy of aging for years to come Key Features Structured in four parts addressing the meaning experience ethics and future of aging Comprehensive ethical coverage including of the retirement age health care for the elderly and the transhumanist life extending project Focused treatment of the dementia epidemic and the philosophy of the mind and self The Palgrave Handbook of the Philosophy of Aging is an essential resource for scholars researchers and advanced students in the philosophy of the self moral and political philosophy bioethics phenomenology narrative studies and philosophy of economics It is also an ideal volume for researchers advanced students and professionals in gerontology health care psychology sociology and population studies

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Handbook of the Psychology of Aging ,2021-07-17 Handbook of the Psychology of Aging Ninth Edition tackles both the biological and environmental influences on behavior and the reciprocal interface between changes in the brain and behavior that span the adult lifespan This information is very important to many features of daily life from workplace to family and in public policy matters It is complex and new questions are continually raised about how behavior changes with age Providing perspectives on the behavioral science of aging for diverse disciplines the handbook explains how the role of behavior is organized and how it changes over the course of life Along with parallel advances in research methodology it explicates in great detail patterns and sub patterns of behavior over the lifespan and how it affects biological health and social interactions Covers preclinical neuropathology Examines age and sex differences in the process of aging Considers financial decision making and capacity Explores mental health issues related to death and dying Discusses technology for older adults

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*Handbook of the Psychology of Aging* James E. Birren,K Warner Schaie,2011-04-27 Handbook of the Psychology of Aging 6e provides a comprehensive summary and evaluation of recent research on the psychological aspects of aging The 22 chapters are organized into four divisions Concepts Theories and Methods in the Psychology of Aging Biological and Social Influences on Aging Behavioral Processes and Aging and Complex Behavioral Concepts and Processes in Aging The 6th edition of the Handbook is considerably changed from the previous edition Half of the chapters are on new topics and the remaining half are on returning subjects that are entirely new presentations by different authors of new material Some of the exciting new topics include Contributions of Cognitive Neuroscience to Understanding Behavior and Aging Everyday Problem Solving and Decision Making Autobiographical Memory and Religion and Health Late in Life The Handbook will be of use to researchers and professional practitioners working with the aged It is also suitable for use as a textbook for graduate and advanced undergraduate courses on the psychology of aging The Handbook of the Psycology of Aging Sixth Edition is part of the Handbooks on Aging series including Handbook of the Biology of Aging and Handbook of Aging and the Social Sciences also in their 6th editions

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date has also largely emphasized biological changes in the brain with less evaluation of the range of external contributors to behavioral manifestations of age related decrements in performance This handbook provides a comprehensive overview of cutting edge cognitive aging research through the lens of a life course perspective that takes into account both behavioral and neural changes Focusing on the fundamental principles that characterize a life course approach genetics early life experiences motivation emotion social contexts and lifestyle interventions this handbook is an essential resource for researchers in cognition aging and gerontology

*Handbook of Cognitive Aging* Scott M. Hofer, Duane F Alwin, 2008-03-20

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