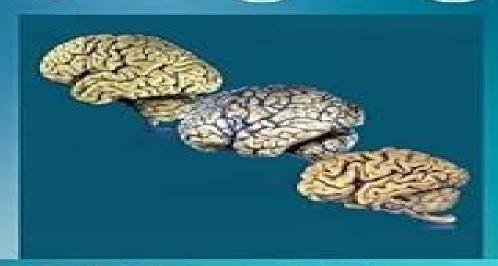
Handbook of the Neuroscience of Aging



Edited by Patrick R. Hof • Charles V. Mobbs



Handbook Of The Neuroscience Of Aging

James E. Birren,K Warner Schaie,Ronald P. Abeles,Margaret Gatz,Timothy A. Salthouse

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 patholgy 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 Handbook of the Psychology of Aging James E. Birren, K Warner Schaie, Ronald P. Abeles, Margaret Gatz, Timothy A. Salthouse, 2006 The Handbook of the Psychology of Aging provides a definitive reference

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field with topics ranging from demography to development to neuroscience offering the most complete coverage available on Handbook of Theories of Aging Merril 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 The Handbook of Aging and Cognition Fergus I. M. Craik, Timothy A. Salthouse, 2011-03-15 Cognitive aging is a flourishing area of research A significant amount of new data a number of new theoretical notions and many new research issues have been generated in the past ten years. This new edition reviews new findings and theories enables the reader to assess where the field is today and evaluates its points of growth The chapters are organized to run from reviews of current work on neuroimaging neuropsychology genetics and the concept of brain reserve through the mainstream topics of attention memory knowledge and language to a consideration of individual differences and of cognitive aging in a lifespan context This edition continues to feature the broad range of its predecessors while also providing critical assessments of current theories and findings The Handbook of Aging and Cognition Fergus I. M. Craik, Timothy A. Salthouse, 2008 Cognitive aging is a flourishing area of research This third edition reviews the findings and theories since the previous edition and evaluates the field s points of growth 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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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 Provides a unique perspective I am particularly impressed with the sections on innovative design and methods to investigate cognitive aging and the integrative perspectives None of the existing texts covers this material to the same level Donna J La Voie Saint Louis University The emphasis on integrating the literature with theoretical and methodological innovations could have a far reaching impact on the field Deb McGinnis Oakland University The Handbook of Cognitive Aging Interdisciplinary Perspectives clarifies the differences in patterns and processes of cognitive aging Along with a comprehensive review of current research editors Scott M Hofer and Duane F Alwin provide a solid foundation for building a multidisciplinary agenda that will stimulate further rigorous research into these complex factors Key Features Gathers the widest possible range of perspectives by including cognitive aging experts in various disciplines while maintaining a degree of unity across chapters Examines the limitations of the extant literature particularly in research design and measurement and offers new suggestions to guide future research Highlights the broad scope of the field with topics ranging from demography to development to neuroscience offering the most complete coverage available on cognitive aging

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