1. Record Nr. UNINA9910143271203321

Titolo	Brain aging : models, methods, and mechanisms / / edited by David R. Riddle
Pubbl/distr/stampa	Boca Raton, Fla., : CRC London, : Taylor & Francis [distributor], 2007
ISBN	1-000-61155-8 0-429-11457-5 1-281-08125-6 9786611081256 1-4200-0552-9
Descrizione fisica	1 online resource (414 p.)
Collana	Frontiers in neuroscience
Classificazione	44.90
Altri autori (Persone)	RiddleDavid R
Disciplina	612.67
Soggetti	Brain - Aging Brain - Pathophysiopathology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front cover; Table of Contents; Series Preface; Preface; About the Editor; Contributors; Section I: Assessing Cognitive Aging; Chapter 1. Changes in Cognitive Function in Human Aging; Chapter 2. Successful vs. Unsuccessful Aging in the Rhesus Monkey; Chapter 3. Neuropsychology of Cognitive Aging in Rodents; Section II: Quantifying Aging-Related Changes in the Brain; Chapter 4. Design-Based Stereology in Brain Aging Research; Chapter 5. The Effects of Normal Aging on Nerve Fibers and Neuroglia in the Central Nervous System; Chapter 6. Neurogenesis in the Adult and Aging Brain Chapter 7. Expression Profile Analysis of Brain AgingSection III: Assessing Functional Changes in the Aging Nervous System; Chapter 8. Subtle Alterations in Glutamatergic Synapses Underlie the Aging-Related Decline in Hippocampal Function; Chapter 9. Assessment of Second Messenger Function in the Hippocampus of Aged Rats with Cognitive Impairment; Chapter 10. Neurophysiology of Old Neurons and Synapses; Chapter 11. Imaging Cognition in the Aging Human Brain; Section IV: Mechanisms Contributing to Brain Aging; Chapter 12.

Regulation of Cerebrovascular Aging

Chapter 13. Stress and Glucocorticoid Contributions to Normal and Pathological AgingChapter 14. Altered Calcium Homeostasis in Old Neurons; Chapter 15. Oxidative Stress and the Aging Brain: From Theory to Prevention; Index; Back cover

Sommario/riassunto

Recognition that aging is not the accumulation of disease, but rather comprises fundamental biological processes that are amenable to experimental study, is the basis for the recent growth of experimental biogerontology. As increasingly sophisticated studies provide greater understanding of what occurs in the aging brain and how these changes occur, new possibilities emerge for limiting the effects of aging on neural function. A single source reference is necessary to keep abreast of the recent advances and future directions of gerontology research. Brain Aging: Models, Methods, and