1. Record Nr. UNINA9910957635803321

Titolo	Long-term memory : mechanisms, types and disorders / / Arseni K. Alexandrov and Lazar M. Fedoseev, editors
Pubbl/distr/stampa	Hauppauge, N.Y., : Nova Science Publishers, c2012
ISBN	1-61942-711-7
Edizione	[1st ed.]
Descrizione fisica	1 online resource (195 p.)
Collana	Neuroscience research progress Perspectives on cognitive psychology
Altri autori (Persone)	AlexandrovArseni K FedoseevLazar M
Disciplina	153.1/3
Soggetti	Long-term memory Memory disorders
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	Intro -- Contents -- Preface -- Molecular Mechanisms -- Integrating Adenylyl Cyclase Responsiveness to Metabolic -- Control on Long-Term Emotional Memory and Associated Disorders -- Abstract -- Introduction -- Methods -- Preparations -- Assay of Adenylyl Cyclase Activity -- Results -- Relevant Brain AC Kinetic Properties for Emotional Reinforcement and Basal Memory Processes -- Characterization of the Dynamics of the Quaternary Structure of Hemoglobin as a Function of a Sensor Role of Glucose Levels in Blood by the Erythrocyte -- The Role of BBB in Modulation of Red Cell Control of Hb Deoxygenation -- A Mechanism for Hb-Deoxygenation at Neutral pH -- Structure and Function of Neuronal Regions -- Conclusion -- Acknowledgments -- References -- Long-Term Memory and Topographical Disorientation in Healthy Elderly People: Preliminary Results of a New Diagnostic Tool -- Abstract -- Introduction -- 1.1. LTM in Aging -- 1.2. Spatial Memory and Topographical Disorientation (TD) in Elderly: A Forerunner of Degeneration? -- Method -- Sample -- Neuropsychological Evaluation -- Experimental Tasks -- 1. Navigation into the Plastic City Test -- 2. Bidimensional Stimuli Test -- Procedure -- Results -- Conclusion -- References -- Magnetic Bubbles in Brain Neocortex: A Bio-Magnetite Based Model for Long-Term Memory -- Abstract -- 1. Introduction -- 2. Tree-Dimensional (3-D) Structure of

the Neocortex -- 2.1. Neurocortex -- 2.2. Gliocortex -- 3. Neuron-Astroglial Inter-Play in Neocortex -- 4. Bio-Physical Forces in Neocortex -- 5. The Neocortex as a Complex 3-D Magnetic-Bubble Device -- 5.1. Magnetic-Bubble Memory Technology -- 5.2. Other Proposed Bubbles in the Brain -- 5.3. Astroglial Magnetic-Bubbles Generation -- 6. Role of Magnetite in the Magnetic-Bubble Memory Model -- 7. How Do the Astroglial Magnetic-Bubbles Work?. 8. Predictions of the Model -- References -- PARP1 Activation Is Required for Long-Term Memory -- Abstract -- Evidence Indicating that PARP-1 Activation Is Required for Long-term Memory Formation during Learning -- Signal-transduction Mechanisms Tested for their Possible Involvement in PARP1 Activation -- Ca2+-Induced PARP1 Activation in Cerebral Neurons -- Stimulation of Isolated Ganglia -- PARP1 Is Activated in Cerebral Neurons Exposed to Nerve Growth Factors -- ERK-Induced PARP-1 Activation Upregulates the Activity -- of ERK in Nuclei of Cerebral Neurons -- Conclusion -- References -- Effects of Afobazole on the Searching Activity and Food-Procuring Skill of the Offspring of Rats Exposed to Hypoxia during Fetal Development -- Abstract -- Introduction -- Materials and Methods -- Results and Discussion -- References -- The Benefits of Expressive Writing on Long-Term Memory Performance* -- Abstract -- Introduction -- Method -- Participants -- Materials and Procedure -- Results -- Learning Phase -- Verification Phase: Recognition Times (in Ms) -- Verification Phase: Accuracy (Percentage of Errors) -- Conclusion -- Appendix. Subject-Location Stimuli for Experiment -- References -- The Effect of Visuo-Spatial Attention on Long-Term Memory Encoding -- Abstract -- Introduction -- Divided Attention and Memory -- The Present Approach -- Experiment 1 -- Method -- Results -- Discussion -- Experiment 2 -- Method -- Results -- Discussion -- Experiment 3 -- Method -- Results -- Discussion -- Experiment 4 -- Method -- Results -- Discussion -- Conclusion -- Acknowledgments -- References -- Index -- Blank Page.

Sommario/riassunto

This book presents current research in the study of the mechanisms, types and disorders of long-term memory. Topics included in this compilation include the role of long-term memory in aging and its correlation with topographic disorientation; the diversity and complexity of neurocortical connections, circuits, maps and their relationships with superior cognitive function; PARP1 activation required for long-term memory; the effects of afobazole on cognitive activity; the benefits of expressive writing on long-term memory performance; and visuo-spatial attention on long-term memory encoding.