

1. Record Nr.	UNINA9910808482103321
Titolo	In the light of evolution . Volume VI Brain and behavior // Georg F. Striedter, John C. Avise and Francisco J. Ayala, editors ; National Academy of Sciences the National Academy
Pubbl/distr/stampa	Washington, District of Columbia : , : National Academies Press, , [2013] ©2013
ISBN	0-309-26178-3 0-309-26176-7
Descrizione fisica	1 online resource (431 p.)
Disciplina	576.8
Soggetti	Evolution (Biology)
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 indexes.
Nota di contenuto	<p>""Front Matter""; ""Arthur M. Sackler, M.D.: 1913-1987""; ""Contents""; ""Preface to the *In the Light of Evolution* Series""; ""Preface to *In the Light of Evolution, Volume VI: Brain and Behavior*""; ""Part I: EVOLUTIONARY ORIGINS OF NEURONS AND NERVOUS SYSTEMS""; ""1 Functionalization of a Protosynaptic Gene Expression Network--Cecilia Conaco, Danielle S. Bassett, Hongjun Zhou, Mary Luz Arcila, Sandie M. Degnan, Bernard M. Degnan, and Kenneth S. Kosik""; ""2 Adaptive Evolution of Voltage-Gated Sodium Channels: The First 800 Million Years--Harold H. Zakon""</p> <p>""3 Evolution of Centralized Nervous Systems: Two Schools of Evolutionary Thought--R. Glenn Northcutt""""Part II: DEVELOPMENTAL AND ADULT VARIATION IN NEURAL ORGANIZATION""; ""4 Evolving Specialization of the Arthropod Nervous System--Erin Jarvis, Heather S. Bruce, and Nipam H. Patel""; ""5 Expansion, Folding, and Abnormal Lamination of the Chick Optic Tectum After Intraventricular Injections of FGF2--Luke D. McGowan, Roula A. Alaama, Amanda C. Freise, Johnny C. Huang, Christine J. Charvet, and Georg F. Striedter""</p> <p>""6 Cortical Evolution in Mammals: The Bane and Beauty of Phenotypic Variability--Leah A. Krubitzer and Adele M. H. Seelke""""7 Evolution of Columns, Modules, and Domains in the Neocortex of Primates--Jon H.</p>

Kaas"; "8 The Remarkable, Yet Not Extraordinary, Human Brain as a Scaled-Up Primate Brain and Its Associated Cost--Suzana Herculano-Houzel"; "Part III: FROM NEURAL CIRCUIT EVOLUTION TO ADAPTIVE BEHAVIOR"
"9 Homology and Homoplasy of Swimming Behaviors and Neural Circuits in the Nudipleura (Mollusca, Gastropoda, Opisthobranchia)--James M. Newcomb, Akira Sakurai, Joshua L. Lillvis, Charuni A. Gunaratne, and Paul S. Katz""10 Shared Developmental and Evolutionary Origins for Neural Basis of Vocal Acoustic and Pectoral Gestural Signaling--Andrew H. Bass and Boris P. Chagnaud"; "11 To Flock or Fight: Neurochemical Signatures of Divergent Life Histories in Sparrows--James L. Goodson, Leah C. Wilson, and Sara E. Schrock""12 From Chemotaxis to the Cognitive Map: The Function of Olfaction--Lucia F. Jacobs""13 Evolution of Brains and Behavior for Optimal Foraging: A Tale of Two Predators--Kenneth C. Catania"; "Part IV: PHYLOGENY OF HUMAN BRAINS AND HUMAN MINDS"; "14 Human Brain Evolution: From Gene Discovery to Phenotype Discovery--Todd M. Preuss"; "15 Integration of Faces and Vocalizations in Ventral Prefrontal Cortex: Implications for the Evolution of Audiovisual Speech--Lizabeth M. Romanski"; "16 Math, Monkeys, and the Developing Brain--Jessica F. Cantlon""17 A Hierarchical Model of the Evolution of Human Brain Specializations--H. Clark Barrett"
