Record Nr. UNINA9910829840103321 Autore Smith C. U. M (Christopher Upham Murray) Titolo Elements of molecular neurobiology [[electronic resource] /] / C.U.M. Smith Pubbl/distr/stampa Chichester, : Wiley, 2002 **ISBN** 0-470-85717-X 1-280-27071-3 9786610270712 0-470-85749-8 Edizione [3rd ed.] Descrizione fisica 1 online resource (635 p.) Disciplina 573.848 599/.0188 Soggetti Molecular neurobiology Neurobiology Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Previous ed.: 1996. Note generali Nota di bibliografia Includes bibliographical references and index. Elements of Molecular Neurobiology Third Edition; CONTENTS; Preface; Nota di contenuto Preface to the First Edition; Preface to the Second Edition; 1 Introductory Orientation; 2 The Conformation of Informational Macromolecules: 3 Information Processing in Cells: 4 Molecular Evolution; 5 Manipulating Biomolecules; 6 Genomics; 7 Biomembranes; 8 G-protein-coupled Receptors; 9 Pumps; 10 Ligand-gated Ion Channels; 11 Voltage-gated Channels; 12 Resting Potentials and Cable Conduction; 13 Sensory Transduction; 14 The Action Potential; 15 The Neuron as a Secretory Cell; 16 Neurotransmitters and Neuromodulators 17 The Postsynaptic Cell18 Developmental Genetics of the Brain; 19 Epigenetics of the Brain; 20 Memory; 21 Some Pathologies; Appendix 1 Molecules and Consciousness; Appendix 2 Units; Appendix 3 Data;

Neurological Disease: Index:

Sommario/riassunto

This thoroughly revised and updated new edition of C.U.M. Smith's 1996 text gives an account of the molecular biology of the brain as it stands at the beginning of the twenty-first century. It describes the

Appendix 4 Genes; Appendix 5 Physical Models of Ion Conduction and Gating; Acronyms and Abbreviations; Glossary; Bibliography; Index of

latest research in neurobiology made possible by modern molecular biology techniques. The author synthesizes this new knowledge and demonstrates how an understanding at the molecular level can contribute towards a theory of the brain in health and disease.