Record Nr. UNINA9910830388503321 Autore Nelson Charles A., III (Charles Alexander) Titolo Neuroscience of cognitive development: the role of experience and the developing brain / / Charles A. Nelson, Michelle de Haan, Kathleen M. Pubbl/distr/stampa Hoboken, New Jersey:,: John Wiley & Sons, Inc.,, 2006 ©2006 ISBN 0-470-93941-9 0-471-78510-5 Descrizione fisica 1 online resource (347 p.) Disciplina 153 612.8/233 612.8233 Soggetti Cognitive neuroscience Developmental psychology Experience 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. Cover; Contents; Title; Copyright; Preface; Acknowledgments; Nota di contenuto Introduction: Why Should Developmental Psychologists Be Interested in the Brain?; Chapter 1: Brain Development and Neural Plasticity; Brain Development; Stages of Brain Development; Summary; Chapter 2: Neural Plasticity; Developmental Plasticity; Adult Plasticity; Chapter 3: Methods of Cognitive Neuroscience; Lesion Method; Electrophysiological Procedures: Metabolic Procedures (fMRI): Optical Imaging; Magnetic Encephalography; Summary; Chapter 4: The Development of Speech and Language The Neural Bases of Speech and Language DevelopmentNeural Bases of Speech Processing and Speech Perception; Summary; Chapter 5: The Development of Declarative (or Explicit) Memory; Memory Systems; The Development of Memory Systems-Some Background: Disorders of Memory; Chapter 6: The Development of Nondeclarative (or Implicit)

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## Sommario/riassunto

A new understanding of cognitive development from the perspective of neuroscienceThis book provides a state-of-the-art understanding of the neural bases of cognitive development. Although the field of developmental cognitive neuroscience is still in its infancy, the authors effectively demonstrate that our understanding of cognitive development is and will be vastly improved as the mechanisms underlying development are elucidated. The authors begin by establishing the value of considering neuroscience in order to understand child development and then provide an overview of brain