Record Nr. UNINA9910785008403321 The two halves of the brain: information processing in the cerebral **Titolo** hemispheres / / edited by Kenneth Hugdahl and Rene Westerhausen Pubbl/distr/stampa Cambridge, Mass., : MIT Press, ©2010 **ISBN** 0-262-26564-8 1-282-73697-3 9786612736971 0-262-26594-X Descrizione fisica 1 online resource (717 p.) Altri autori (Persone) HugdahlKenneth WesterhausenRene <1976-> Disciplina 612.8/25 Soggetti Cerebral dominance Laterality Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Contents: Preface: Introduction and Overview: I Genetic and Evolutionary Perspectives on Hemispheric Asymmetry; 1 Differential Gene Transcription in the Left and Right Cerebral Cortex; 2 Evolutionary Depth of Human Brain Language Areas: 3 Handedness and Cerebral Asymmetry; II Hemispheric Asymmetry in Nonmammalian Species; 4 Hemispheric Asymmetry of Songbirds; 5 The Embryonic Development of Visual Asymmetry in the Pigeon; III Neuroimaging and Hemispheric Asymmetry; 6 Structural Indices of Asymmetry; 7 Asymmetry of White Matter Pathways 8 Electroencephalographic and Magnetoencephalographic Indices of Hemispheric AsymmetryIV Hormones, Sex Differences, and Sleep Asymmetry; 9 Sex Hormonal Effects on Hemispheric Asymmetry and Interhemispheric Interaction; 10 Sex Differences in Handedness, Brain Asymmetry, and Language Lateralization; 11 Laterality and Sleep; V Asymmetry of Perception; 12 Auditory Laterality; 13 Processing Asymmetries in the Visual System: 14 Integrating Auditory and Visual Asymmetry; VI Asymmetry of Cognition; 15 A Unified Structural-

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## Sommario/riassunto

This volume provides a comprehensive view of the latest research in brain asymmetry, offering not only recent empirical and clinical findings but also a coherent theoretical approach to the subject.