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Nota di contenuto	Contents; Contributors; 1. Historical Notes on Reorganization of Function and Neuroplasticity; I. Neuroscience Research on Neuroplasticity and Reorganization of Function; 2. Neuropsychological Indices of Early Medial Temporal Lobe Dysfunction in Primates; 3. Cognitive Recovery from Traumatic Brain Injury: Results of Posttraumatic Experimental Interventions; 4. Growth of New Connections and Adult Reorganizational Plasticity in the Somatosensory System; 5. Neuroanatomic Basis for Reorganization of Function After Prefrontal Damage in Primates 6. Reorganization of Function After Cortical Lesions in Rodents7. Rapid Reorganization of Subcortical and Cortical Maps in Adult Primates; 8. Motor Rehabilitation, Use-Related Neural Events, and Reorganization of the Brain After Injury; 9. Role of Neuroplasticity in Functional Recovery After Stroke; II. Developmental Studies of Neuroplasticity; 10. Spatial Cognitive Development Following Prenatal or Perinatal Focal Brain

Injury; 11. Neuroplasticity Following Traumatic Diffuse versus Focal Brain Injury in Children: Studies of Verbal Fluency
12. Cerebral Reorganization in Children with Congenital Hemiplegia: Evidence from the Dichotic Listening Test
13. Reorganization of Motor Function in Cerebral Palsy; III. Techniques for Studying Neuroplasticity in Humans; 14. The Developmental Disorders: Does Plasticity Play a Role?; 15. Transcranial Magnetic Stimulation as a Tool for Detecting Changes in the Organization of the Human Motor System After Central and Peripheral Lesions; 16. Methodological Issues in Functional Magnetic Resonance Imaging Studies of Plasticity Following Brain Injury; 17. Neuroimaging of Functional Recovery
18. Computational Modeling of the Cortical Response to Focal Damage
IV. Synthesis and Implications for Rehabilitation; 19. Conceptual Issues Relevant to Present and Future Neurologic Rehabilitation; Index; A; B; C; D; E; F; G; H; I; J; K; L; M; N; O; P; R; S; T; U; V; W

Sommario/riassunto

This work integrates neuroscience research on neuroplasticity with the clinical investigation of the reorganization of function after brain injury, especially from the perspective of eventually translating the findings to rehabilitation.

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