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| Pubbl/distr/stampa | Piscataway, New Jersey : , : Institute of Electrical and Electronics Engineers, , 2018 |
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| 2. Record Nr. | UNINA9910635385103321 |
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| Soggetti | Neurosciences Nervous system - Diseases Developmental neurobiology Cognitive neuroscience Neuroscience Neurological Disorders Development of the Nervous System Cognitive Neuroscience |
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Livello bibliografico

Monografia

Nota di bibliografia

Includes bibliographical references and index.

Nota di contenuto

PART I. Iron, Brain Function and Behavior -- Chapter 1. Iron and Neurocognition -- Chapter 2. The Interplay Between Iron and Oxidative Stress in Brain Neurodegenerative Diseases -- Chapter 3. Specific Nutritional Therapeutic Approaches Targeting Iron Overload and Other Hallmarks of Brain Degenerative Diseases -- Chapter 4. Mediterranean Diet and Neuro-Cognition: Focus on Alzheimer disease -- PART II Brain disorders related to Iron -- Chapter 5. The Critical Roleplay of Iron Neurochemistry in Progression of Parkinson's Disease -- Chapter 6. Iron-Calcium Crosstalk in Neurodegenerative Diseases -- Chapter 7. Iron and Alzheimer's Disease -- Chapter 8. Iron and Multiple Sclerosis -- Chapter 9. Iron and Epilepsy -- Chapter 10. Iron and Subarachnoid Hemorrhage -- Chapter 11. Iron deficiency and psychiatric disorders -- Chapter 12. Iron and Neuro-developmental Disorders -- Chapter 13. Iron and Neuropathies.

Sommario/riassunto

This book explores the molecular mechanisms of iron hemostasis in the brain and discusses the cognitive and behavioral implications of iron deficiency. It presents the effect of iron dysregulation on neurophysiological mechanisms. The book provides an overview of iron metabolism and homeostasis at the cellular level and its regulation at the mRNA translation level. It emphasizes the importance of iron for brain development in fetal and early life in preterm infants. Further, it presents iron metabolism as a therapeutic target for novel pharmacological treatment against neurodevelopmental diseases and neurodegenerative disorders. It discusses the role of iron deficiency in sleep disorders and offers diagnosis and treatment of iron-related CNS diseases. Finally, it relates dysregulated expression of iron-related genes in brain tumors.