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Titolo	Altered Metabolism: A Major Contributor of Comorbidities in Neurodegenerative Diseases / / edited by Namita Agrawal
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Nota di contenuto	Chapter 1: An Overview of Neurodegenerative Disorders -- Chapter 2: Mechanism underlying major neurodegenerative disorders -- Chapter 3: Involvement of metabolic paradigm in progression of neurodegenerative diseases -- Chapter 4: Glial cell metabolism and neurodegenerative diseases: The current perspective -- Chapter 5: Altered glucose homeostasis in neurological disorders -- Chapter 6: Lipid Metabolism: Key Determinant in Neurodegenerative Diseases -- Chapter 7 - Dysregulated peripheral metabolism in neurodegenerative disorders -- Chapter 8- Protein Metabolism: Critical factors implicated in neurodegenerative diseases -- Chapter 9 - Altered RNA metabolism in neurodegenerative disorders -- Chapter 10: Unveiling RNA dysfunction: A key player in neurodegeneration -- Chapter 11:

Emerging Relationship between the Gut Microbiota and Neurodegenerative Disorders -- Chapter 12- Signaling Pathways in Neurodegenerative diseases -- Chapter 13: An overview of imaging techniques for diagnosis of debilitating neurodegenerative diseases -- Chapter 14: Novel Metabolic Biomarkers and Therapeutic Strategies in Neurodegenerative Diseases -- Chapter 15: Phytochemicals: Promising alternatives for metabolic regulation in neurodegenerative diseases.

Sommario/riassunto

This book presents a systematic and extensive understanding about metabolic alterations affecting multiple aspects of different neurodegenerative diseases (NDDs), such as Alzheimer’s, Parkinson’s, Huntington’s disease, SCAs, SBMA, DRPLA, ALS, Freidrich Ataxia etc. The book also illustrates cellular and molecular mechanisms behind the key neurodegenerative diseases and further expands on concept of unique and developing biomarkers associated with the onset and progression of NDDs. Additionally, it elaborates on the concept of latest imaging tools to monitor state of NDDs and accordingly develop therapeutic approaches entailing phytochemicals in the management of metabolic alterations associated with NDDs that ultimately suppresses course of devastating NDDs. The book aids to improve the overall understanding about the NDD and involvement of metabolic disorder as a major factor for indisposition of the disease. Therefore, suggesting that targetting metabolic variations by phytochemicals can combat NDD related symptoms for the betterment of impacted patients. While introducing cellular and molecular mechanisms and the treatment regimen under the umbrella of metabolism in several NDDs, the book covers major aspects of understanding the metabolic basis of NDDs, its implications, and treatment. This will inflate the readers' understanding about this particular area and guide those working in this domain, be it a researcher or clinicians,to choose or design effective therapeutic strategies to curb metabolic alterations linked with these disorders. This book will not only contribute towards improving the overall state of the challenged individuals but will also bring new hope towards improving the quality of lives of affected patients.