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Nota di contenuto	Chapter 1. Gut Microbiome and Brain Aging -- Chapter 2. Gut Microbiome and Brain aging: Mechanistic and Physiological Understanding -- Chapter 3. The Scenario of Emerging Gut Microbiome Crosstalks in Brain Aging -- Chapter 4. The Gut Microbiome and the CNS -- Chapter 5. Gut-Brain Interplay and Cognitive Degeneration -- Chapter 6. The Altered Gut-Microbiome and Inflammation-Compelled Pathogenesis of Neurological Disorders -- Chapter 7. Influence of Altered Gut Microbiota in Cellular Senescence -- Chapter 8. Molecular Interplay of Oxidative Stress and Gut Microbiome in Aging -- Chapter 9. The Gut Microbiome, Microbial-Produced Pro-Inflammatory Neurotoxins and Neurological Disorders -- Chapter 10. Gut Microbiota and Altered Behaviour: Target on Neuroimmune Interplays -- Chapter 11. Customized Microbiome Restoration Approaches in Older People-Perspectives and Therapeutic Prospects -- Chapter 12. Gut-Microbiota as a Therapeutic Intervention for Cognitive Damage -- Chapter 13. Pharmacological and Nutritional Approaches to Modulate Microglial

Polarization in Cognitive Senescence -- Chapter 14. Role of Gut Brain and Gut Oral Axis in Progression of Parkinson's Disease with Special Focus on Gut Microbes -- Chapter 15. The Gut Microbiome Induced Changes in Brain Immune System and their Role in Epilepsy -- Chapter 16. Exploring the Interplay between Gut Microflora and Parkinson's -- Chapter 17. Gut Microbiome: A Key Factor in Aging and an Aim for Anti-Senescence Intervention.

Sommario/riassunto

This book, Gut microbiome and Brain Ageing, deals with the mechanisms and phenomenon that relates gut microbiome and aging of the brain. This book will bring forth the connection between good gut and brain aging and includes some cutting edge research topics dealing with gut physiology and its importance as future therapeutic option in neurological disorders. The gut microbiome's impact on neuronal function, mediated by neurotransmitters, vitamins, and neuroactive microbial metabolites, is an exciting area of investigation that this book thoroughly explores. It also covers the pivotal role of the gut microbiome in the etiology of various neurodegenerative disorders such as Alzheimer’s disease (AD), Parkinson’s disease (PD), depression, or multiple sclerosis (MS). It also explores the expanding understanding of the importance of the early-life gut microbiota and its implications for long-term health consequences. This book primarily addresses researchers, clinicians, and doctoral and graduate students working in biomedicine, neurobiology, nutrition, microbiology, and translational medicine streams.