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Titolo	Neurodegenerative Diseases : Pathology, Mechanisms, and Potential Therapeutic Targets / / edited by Philip Beart, Michael Robinson, Marcus Rattray, Nicholas J. Maragakis
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Descrizione fisica	1 online resource (545 pages) : illustrations (some color)
Collana	Advances in Neurobiology, , 2190-5215 ; ; 15
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Part 1: Major Neurodegenerative Conditions -- Alzheimer's Disease – Insights from Genetic Mouse Models and Current Advances in Human IPSC-Derived Neurons -- Clinical Aspects of Alzheimer's Disease -- Parkinson's Disease: Basic Pathomechanisms and a Clinical Overview -- Huntington's Disease: Pathogenic Mechanisms and Therapeutic Targets -- The Complexity of Clinical Huntington's Disease: Developments in Molecular Genetics, Neuropathology and Neuroimaging Biomarkers -- Motoneurone Disease – Basic Science -- Motoneurone Disease – Clinical -- Multiple Sclerosis – Basic and Clinical -- Part 2: Other Neurological Conditions -- Schizophrenia—Basic and Clinical -- Stroke – Basic and Clinical -- Epileptic Encephalopathies as Neurodegenerative Disorders -- Neurodegeneration and Pathology in Epilepsy–Clinical and Basic Perspectives -- Prion Disease – Basic and Clinical -- Leukodystrophies – Basic and Clinical -- Traumatic Brain Injury as a Trigger of Neurodegeneration -- Part 3: Key Background and Key Technologies -- Cell Death Mechanisms of Neurodegeneration -- Neuroglia: Functional Paralysis and Reactivity in Alzheimer's Disease and Other Neurodegenerative Pathologies -- Advances in Neuroimaging for Neurodegenerative Disease -- Gene Linkage and Systems Biology -- Biomarkers in Neurodegenerative Diseases.
Sommario/riassunto	Provides a timely overview of critical advances in molecular and cellular neurobiology, covers key methodologies driving progress, and

highlights key future directions for research on neuronal injury and neurodegeneration relevant to neuronal brain pathologies. The editors bring together contributions from internationally recognized workers in the field to provide an up to date account of how and why molecular and cellular neurobiology is such an important area for clinical neuroscience. Understanding the molecular aspects of a number of neurodegenerative conditions such as Parkinson's or Alzheimer's disease for the purpose of improving patient management remains a major challenge of neurobiology be it from the basic or clinical perspective. A strategic evaluation of research contributions and the power of modern methods will help advance knowledge over the next years.