

1. Record Nr.	UNINA9910787931903321
<b>Titolo</b>	Imaging in neurodegenerative disorders / / edited by Luca Saba
<b>Pubbl/distr/stampa</b>	Oxfordshire, [England] : , : Oxford University Press, , 2015 ©2015
<b>ISBN</b>	0-19-165140-0 0-19-180182-8 0-19-165139-7
<b>Edizione</b>	[First edition.]
<b>Descrizione fisica</b>	1 online resource (585 p.)
<b>Disciplina</b>	616.8047
<b>Soggetti</b>	Nervous system - Degeneration Brain - Degeneration
<b>Lingua di pubblicazione</b>	Inglese
<b>Formato</b>	Materiale a stampa
<b>Livello bibliografico</b>	Monografia
<b>Note generali</b>	Description based upon print version of record.
<b>Nota di bibliografia</b>	Includes bibliographical references and index at the end of each chapters.
<b>Nota di contenuto</b>	Cover; Imaging in Neurodegenerative Disorders; Copyright; Dedication; Contents; List of abbreviations; List of contributors; SECTION 1 Introduction; 1 Epidemiology of neurodegenerative diseases; 2 Metabolomics of neurodegenerative disorders; 3 Transcriptome profiling in neurodegenerative disorders; 4 Health economic considerations in neurodegenerative disorders; 5 Symptoms of neurodegenerative diseases; SECTION 2 Imaging technique; 6 Computed tomography; 7 General principles of magnetic resonance imaging; 8 Nuclear medicine and radiology; 9 Molecular imaging and neurodegenerative disorders 10 Positron emission tomography in neurodegenerative disorders- evolving techniques and new tracers 11 Radiopharmaceuticals for molecular imaging of neurodegenerative diseases; SECTION 3 Neurodegeneration: cognition; 12 Neuroimaging of Alzheimer's disease; 13 MRI-based imaging of Alzheimer's disease; 14 Frontotemporal dementia; 15 Dementia with Lewy bodies; 16 Corticobasal syndrome and corticobasal degeneration; SECTION 4 Neurodegeneration: movement; 17 Parkinson's disease: clinical and imaging features; 18 Progressive supranuclear palsy; 19 Imaging in

## Huntington's disease

20 Multiple system atrophy; 21 Clinical benefit of dopamine transporter imaging in movement disorders and dementia; SECTION 5  
Neurodegeneration: strength; 22 Amyotrophic lateral sclerosis; SECTION 6 Neurodegeneration: coordination; 23 Spinocerebellar atrophies; 24 Imaging in Friedreich's ataxia; 25 Neuroimaging in human prion diseases; SECTION 7 Neurodegeneration: peripheral and autonomic nervous systems; 26 Amyloidosis; 27 Neurodegeneration: metabolic and toxin-related disorders; SECTION 8 Neurodegeneration: myelin; 28 Demyelinating diseases; 29 Charcot-Marie-Tooth disease  
30 Neurodegenerative disorders of the basal ganglia; SECTION 9  
Neurodegeneration: trauma; 31 Neurodegeneration post trauma: brain; 32 Neurodegeneration post trauma: spine; 33 Neurodegeneration after trauma: peripheral nerves; SECTION 10 Neuroimaging after therapy; 34 Functional imaging of neurosurgery in Parkinson's disease; 35 Neuroimaging after cell-based therapy; Index

### Sommario/riassunto

Diagnosing neurodegenerative diseases can prove particularly intimidating to clinicians, because many times the diagnosis cannot be critically ""confirmed"" by a simple test. New imaging modalities have advanced to the point of high resolution, morphological, metabolic and functional analysis. Computed tomography, magnetic resonance, nuclear medicine and molecular imaging have recently emerged as outstanding non-invasive techniques for the study of the neurodegenerative disorders. Imaging in Neurodegenerative Disorders covers all the imaging techniques and new exciting methods like new tracers,