Record Nr. UNINA9910463842803321 Imaging in neurodegenerative disorders / / edited by Luca Saba **Titolo** Oxfordshire, [England]:,: Oxford University Press,, 2015 Pubbl/distr/stampa ©2015 **ISBN** 0-19-180182-8 0-19-165139-7 Edizione [First edition.] Descrizione fisica 1 online resource (585 p.) Disciplina 616.8047 Soggetti Nervous system - Degeneration Brain - Degeneration Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index at the end of each chapters. Nota di contenuto 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 disordersevolving techniques and new tracers11 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 atrophy21 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 gangliaSECTION 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 theneurodegenerative disorders. Imaging in Neurodegenerative Disorders covers all the imaging techniques and new exciting methods like new tracers,