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Nota di contenuto	Motor neuron disease : causes, classification and treatments / Louisa Ng, Fary Khan -- Membrane trafficking defects as determinants of motor neuron susceptibility and degeneration in ALS / Bradley J. Turner, Julie D. Atkin -- Motoneuron specific calcium dysregulation and perturbed cellular calcium homestasis in amyotrophic lateral sclerosis : recent advances gained from genetically modified animals and cell culture models / Manoj Kumar Jaiswal -- Treatment of ALS utilizing a stem cell strategy / Xiufang Guo, James J. Hickman -- Tdp-43-immunoreactive pathology in frontotemporal lobar degeneration with TDP proteinopathy (FTLD-TDP) with and without associated motor neuron disease (MND) / R.A. Armstrong -- Excitotoxicity and selective motor neuron degeneration / K.A. Staats, L. Van Den Bosch -- Stem cell application in amyotrophic lateral sclerosis : growth factor delivery and cell therapy / Ksenija Bernau, Michael G. Meyer, Masatoshi Suzuki -- Therapeutic intervention in spinal and bulbar muscular atrophy (SBMA) / Haruhiko Banno ... [et al.] -- Expert commentary : motor neuron disease : assistive technology / Louisa Ng, Fary Khan -- Comparative study on application of invasive ventilation and non-invasive ventilation to ALS patients in Europe, the USA, and Japan / Rika Yamauchi, Jun Kawamata, Shun Shimohama -- Motor speech disorder in patients with motor neuron disease / Hideto Saigusa -- Non-viral gene delivery of the GDNF, either alone or fused to the C-fragment of tetanus toxin

protein, prolongs survival in a mouse ALS model / Rosario Osta -- Motor neuron disease / Kazumi Murai -- Motor neuron disease / Anil Kumar -- Bulbospinal muscular atrophy (BSMA) Kennedy's disease / J. Finsterer.

Sommario/riassunto

Motor neuron disease (MND), also commonly known as amyotrophic lateral sclerosis (ALS), is a chronic neurodegenerative disorder of the motor system in adults, characterized by the loss of motor neurons in the cortex, brain stem and spinal cord. This book presents current research from across the globe in the study of the causes, classification and treatments of MND, including membrane trafficking defects as determinants of motor neuron susceptibility and degeneration in ALS; motorneuron specific calcium dysregulation and perturbed cellular calcium homeostasis in ALS; stem cells and their application in ALS treatment; excitotoxicity and selective motor neuron degeneration and therapeutic invervention and assistive technology treatments. (Imprint: Nova Biomedical)