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	Nota di contenuto	Part I: Basic Science of Cerebellum and Ataxias Functional anatomy of the cerebellum Cerebellar physiology Cerebellar biochemistry/pharmacology Genetics of dominant ataxias Autosomal and X-linked degenerative ataxias: from genetics to promising therapeutics Seeking therapies for Spinocerebellar Ataxia: from gene silencing to systems-based approaches Ion Channel Genes and Ataxia Part II: Biomarkers and tools of trials How to Design a Therapeutic Trial in SCAs Therapy development for spinocerebellar ataxia: Rating Scales and Biomarkers Clinical rating scales for ataxia Scale for Ocular motor Disorders in Ataxia (SODA): Procedures and Basic Understanding Cerebellar learning in the prism adaptation task Blood and CSF biomarkers in autosomal dominant cerebellar ataxias Part III: Autosomal Dominant Cerebellar Ataxias

	Riluzole in progressive cerebellar ataxias ASOs against ATXN2 in preclinical and phase 1 trials Antisense oligonucleotide therapy against SCA3 Spinocerebellar ataxia type 7: From mechanistic pathways to therapeutic opportunities Experimental neurotransplantation for cerebellar ataxias Development of mesenchymal stem cells therapy for the treatment of polyglutamine SCA: from bench to bedside Cerebello-Spinal tDCS as Rehabilitative Intervention in Neurodegenerative Ataxia Cerebellar Transcranial Magnetic Stimulation in Cerebellar Ataxias Physical therapy in Cerebellar Ataxia Part IV: Autosomal Recessive Cerebellar Ataxias Recent advances on therapeutic approaches for Friedreich's Ataxia Therapeutic use of interferon gamma in Friedreich ataxia Metabolic treatments of cerebellar ataxia Clinical Trials in Fragile X-Associated Tremor/Ataxia Syndrome Part V: Sporadic Ataxias Therapeutic strategies in immune-mediated cerebellar ataxias Coenzyme Q10 in MSA State of the Art and History of Therapeutics in Ataxias.
Sommario/riassunto	Despite the critical importance of the cerebellum in brain functions, the scientific community still lacks effective treatments for most cerebellar ataxias. This book provides a link between the pathogenesis and therapies of cerebellar ataxias while also providing a comprehensive assessment of the preclinical and clinical trials dedicated to cerebellar ataxias over the past 20 years of progress. This is the first book fully dedicated to the trials and therapies of these disorders. It is a truly authoritative and comprehensive reference and comes at a time of major advances in genetic tools and neuroimaging assessments. The coverage begins by laying a foundation of the basic science of the cerebellum and ataxias, proceeds to discuss biomarkers and the tools of trials, offers guidelines on conducting trials, and then explores the full range of therapeutics and their trials, including gene therapy and cell transplantation. The authors are top experts on cerebellar research and the contributing authors have all made seminal contributions in the field.