

1. Record Nr.	UNINA9910253891503321
Titolo	Essentials of Cerebellum and Cerebellar Disorders : A Primer For Graduate Students // edited by Donna L. Gruol, Noriyuki Koibuchi, Mario Manto, Marco Molinari, Jeremy D. Schmahmann, Ying Shen
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-24551-1
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (X, 656 p. 112 illus., 61 illus. in color.)
Disciplina	612.827
Soggetti	Medical genetics Neurosciences Psychobiology Human behavior Neurology Medical Genetics Neuroscience Behavioral Neuroscience
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1 Introduction -- 2 Brief Historical Note -- 3 Anatomy And Histology Of The Cerebellum -- 4 Embryology And Development Of The Cerebellum -- 5 Cerebellar Circuits: Biochemistry, Neurotransmitters And Neuromodulation -- 6 Basic Physiology -- 7 Neuroimaging Of The Cerebellum -- 8 Functional Properties Of The Cerebellum -- 9 Cellular And Animal Models Of Cerebellar Disorders -- 10 Human Cerebellar Symptoms: From Movement To Cognition -- 11 Human Cerebellar Disorders: From Prenatal Period To Elderly -- 12 Therapies Of Cerebellar Ataxias -- Index.
Sommario/riassunto	Essentials of the Cerebellum and Cerebellar Disorders is the first book of its kind written specifically for graduate students and clinicians. It is based on the 4-volume treatise, Handbook of the Cerebellum and Cerebellar Disorders (Springer, 2013), the definitive reference for scientists and neurologists in the field of cerebellar neurobiology.

There have been fundamental advances in the basic science and clinical neurology of the cerebellum and its role in sensorimotor function and cognition. This monograph makes this large and expanding body of knowledge readily accessible to trainees and clinicians alike. The editors are world leaders in the field, and the chapters are authored by an international panel of experts drawn from ataxia clinics and cerebellar laboratories throughout North America, Europe and Asia. Essentials provides a solid grounding in the field of cerebellar research and ataxiology from cerebellar circuitry to clinical practice, and it serves as a springboard to a deeper appreciation of both the principles and the complexities of cerebellar neurobiology. Clinicians are expected to have a deep appreciation of cerebellar disorders, not only in specialized ataxia clinics but also in adult and pediatric neurology, neurosurgery, psychiatry and neuropsychology practices, and in outpatient and inpatient rehabilitation settings. This book is an indispensable resource for students and practitioners navigating the evolving field of cerebellar motor and cognitive neurology. It also links to the more expansive Handbook for those who need to explore the topics in this monograph in greater depth.
