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Titolo	Development of the Cerebellum from Molecular Aspects to Diseases // edited by Hassan Marzban
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Edizione	[2nd ed. 2023.]
Descrizione fisica	1 online resource (636 pages)
Collana	Contemporary Clinical Neuroscience, , 2627-5341
Disciplina	616.8 612.827
Soggetti	Neurosciences Neurology Developmental neurobiology Neuroscience Development of the Nervous System Cerebel Malalties cerebrals Neurologia Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	The development of the cerebellum: from the beginnings -- Part I: Responsibilities and liabilities -- Chapter2. The embryology and anatomy of the cerebellum -- Chapter 3. Cellular and genetic programs underlying cerebellum development -- Chapter 4. Early Purkinje Cell Development and the Origins of Cerebellar Patterning. - Chapter 5. Development of the Fish Cerebellum. -Chapter 6. Cerebellar developmental disorders and cerebellar nuclei -- Chapter 7. Motor circuit abnormalities during cerebellar development -- Chapter8. Developmental disorders of the cerebellum and neurotrophic factors -- Chapter9. Apoptosis, Autophagy, and Unfolded Protein Response and Cerebellar Development -- Chapter10. The ubiquitin proteasome system and cerebellar developmental disease -- Chapter11. Epigenetics

and Cerebellar Neurodevelopmental Disorders -- Chapter12..
Hormonal regulation of cerebellar development and its disorders --
Chapter13. Infections of the Cerebellum -- Chapter14. Neuroimmune
mechanisms of cerebellar development and its developmental disorders
-- Chapter15. Teratogenic influences on cerebellar development --
Chapter16. Primary pediatric brain tumors of the posterior fossa --
Chapter17. Primary pediatric brain tumors of the posterior fossa --
Chapter18. Can cerebellar neurodevelopmental disorders affect
behavioral disorders or vice versa -- Chapter19. Neurodevelopmental
disorders of the cerebellum: autism spectrum disorder -- Chapter20.
Congenital cerebellar disease -- Chapter21. Clinical features,
assessment, and management of patients with developmental and
other cerebellar disorders -- Chapter22. Epidemiology of cerebellar
disorders -- Chapter23. Cerebellar transplantation: a potential model
to study repair and development of neurons and circuits in the
cerebellum. - Chapter 24. Non-coding RNAs and cerebellar
development. - Chapter 25. Defining the Cerebellar Cytoarchitecture
Using MRI. .

Sommario/riassunto

This updated reference covers diverse aspects of cerebellar development from a full range of viewpoints, including the epidemiology of cerebellar genetic disorders, developmental anatomy, cell biology, genetics, epigenetics, infectious diseases, and mechanisms involved in the regulation of cell fate, while also focusing on information that is relevant to clinicians caring for patients with cerebellar disorders. The chapters are written by experts in the field of cerebellar development, and the chapters cover diseases related to the cerebellum, along with their epidemiology, clinical features, assessment, and management. In addition to updating the content to cover the significant developments in the field since the first edition, the second edition will include new chapters on Non-Coding RNAs and Cerebellar Development, Development of the Fish Cerebellum, the Role of nNOS/NO on Cerebellar Development in Health and Disease, and rehabilitation in cerebellar ataxia. The effect of the COVID-19 on the cerebellum has been included in related chapters. Development of the Cerebellum from Molecular Aspects to Diseases, 2nd edition, is designed to be valuable reference for both neuroscientists and clinicians.
