

1. Record Nr.	UNINA9910298306603321
Titolo	Cellular and Molecular Control of Neuronal Migration // edited by Laurent Nguyen, Simon Hippenmeyer
Pubbl/distr/stampa	Dordrecht : , : Springer Netherlands : , : Imprint : Springer, , 2014
ISBN	94-007-7687-X
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (194 p.)
Collana	Advances in Experimental Medicine and Biology, , 0065-2598 ; ; 800
Disciplina	573.84
Soggetti	Neurosciences Neurobiology Human anatomy Microscopy Developmental biology Cytology Anatomy Biological Microscopy Developmental Biology Cell Biology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface -- Molecular Pathways Controlling the Sequential Steps of Cortical Neuron Migration -- The Dynamics of Neuronal Migration -- The Impact of JNK on Neuronal Migration -- Novel Functions of Core Cell Cycle Regulators in Neuronal Migration -- Microtubules and Neurodevelopmental Disease: The Movers and the Makers -- Mark/Par-1 Marking the Polarity of Migrating Neurons -- The PAR Polarity Complex and Cerebellar Granule Neuron Migration.- Spinal Motor Neuron Migration and the Significance of Topographic Organization in the Nervous System -- Extracellular Signals Controlling Neuroblast Migration in the Postnatal Brain.
Sommario/riassunto	Cellular and Molecular Control of Neuronal Migration provides an up-to-date collection of reviews on the molecular and cellular principles of neuronal migration in the mammalian brain. Over the last decades a

rich catalogue of signaling molecules controlling neuronal migration has been compiled, and within this book an international panel of experts provides up-to-date discussions of the state of knowledge how these distinct signaling pathways regulate various aspects of neuronal migration. This book introduces the reader to the latest discoveries and concepts of neuronal migration enabled through the application of most sophisticated methods and cutting edge experimental approaches. Cellular and Molecular Control of Neuronal Migration also provides an update on the underlying cellular and molecular basis of neurodevelopmental migration disorders in human patients for all interested neuroscientists and clinicians.
