Record Nr. UNINA9911019296303321

Cortical development: genes and genetic abnormalities // [editors: **Titolo**

Gregory Bock and Jamie Goodel

Pubbl/distr/stampa Chichester, UK; ; Hoboken, NJ, : Wiley, 2007

ISBN 9786611320096

Descrizione fisica 1 online resource (303 p.)

Collana Novartis Foundation symposium ; ; 288

Altri autori (Persone) BockGregory

GoodeJamie

ParnavelasJ. G (John G.)

Disciplina 612.825

Soggetti Brain - Growth

Developmental neurophysiology

Lingua di pubblicazione Inglese

Formato Materiale a stampa

Livello bibliografico Monografia

"Chair: John Parnavelas." Note generali

Nota di bibliografia Includes bibliographical references and indexes.

CORTICAL DEVELOPMENT: GENES AND GENETIC ABNORMALITIES: Nota di contenuto

> Contents; Chair's introduction; Molecular development of corticospinal motor neuron circuitry; DISCUSSION; Perspectives on the developmental

origins of cortical interneuron diversity: DISCUSSION: Genetic

determinants of neuronal migration in the cerebral cortex; DISCUSSION; Neural stem and progenitor cells in cortical development; DISCUSSION; Genes that control the size of the cerebral cortex: DISCUSSION: General Discussion I; Control of cortical neuron layering: lessons from mouse

chimeras: DISCUSSION

Intracortical multidirectional migration of cortical

interneuronsDISCUSSION: The atypical cadherin Celsr3 regulates the development of the axonal blueprint; DISCUSSION; Regulation of laminar and area patterning of mammalian neocortex and behavioural implications; DISCUSSION; Genetic regulation of prefrontal cortex

development and function; DISCUSSION; Self-organization and pattern formation in primate cortical networks; DISCUSSION; Molecular mechanisms of thalamocortical axon targeting; DISCUSSION; Genes involved in the formation of the earliest cortical circuits; DISCUSSION Emx and Nfi genes regulate cortical development and axon guidance in the telencephalonDISCUSSION; Schizophrenia susceptibility genes and their neurodevelopmental implications: focus on neuregulin 1; DISCUSSION; Focal brain malformations: a spectrum of disorders along the mTOR cascade; DISCUSSION; Final Discussion; Contributor Index; Subject Index

Sommario/riassunto

To understand the brain and its devastating diseases, we need to reveal the mechanisms that produce it and the ways in which it can constantly change throughout a lifetime. This book features a timely and insightful discussion between developmental neurobiologists and clinicians who deal with disorders of the nervous system. Chapters in this book deal specifically with cell fate determination, cell migration and disorders of cell migration; current concepts and new ideas about cortical arealisation, and disorders which can arise from incorrect arealisation; genes implicated in the develo