From Development to Degeneration and Regeneration of the Nervous System
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ABSTRACT
This book describes current information about the three areas mentioned in the title: neuronal migration and development, degenerative brain diseases, and neural plasticity and regeneration. The chapters in the first section of the book examine the cellular and molecular mechanisms by which neurons are generated from the ventricular zone in the forebrain and migrate to their destinations in the cerebral cortex. This description of cortical development also includes discussions of the Cajal–Retzius cell. Another chapter provides insight about the development of another forebrain region, the hyp...

Keywords: ventricular zone, forebrain, Cajal–Retzius cell, hypothalamus, dopaminergic neurons, brain aging, myelinated axons, epilepsy, hippocampal dentate gyrus, neuroplastic changes

BIBLIOGRAPHIC INFORMATION
Print publication date: 2008
Published to Oxford Scholarship Online: May 2009
DOI:10.1093/acprof:oso/9780195369007.001.0001

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