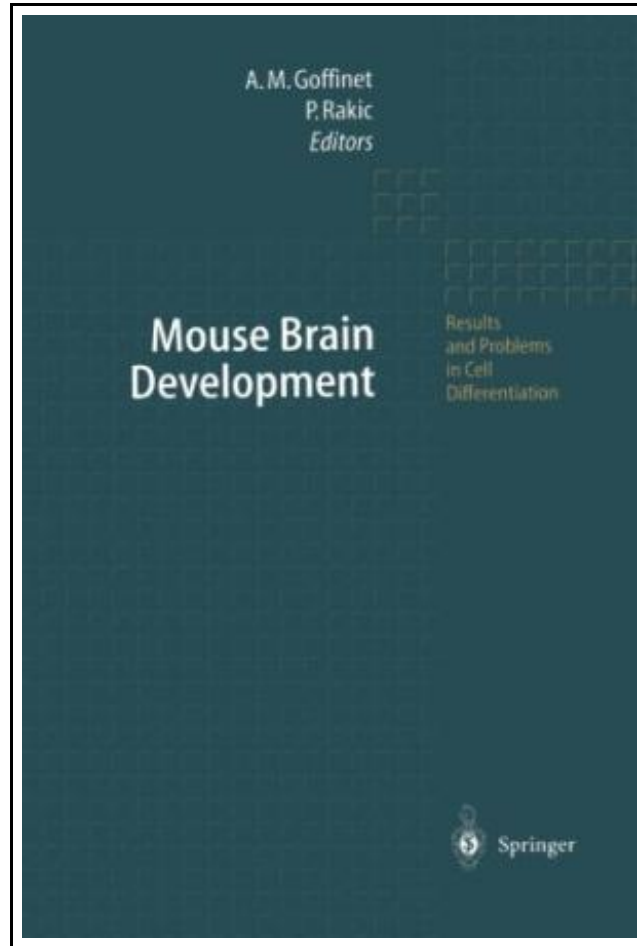


Mouse Brain Development



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Reviews

The publication is great and fantastic. It is probably the most remarkable book i actually have read through. Its been printed in an exceedingly easy way and it is merely right after i finished reading through this publication where in fact altered me, modify the way i think.

(Tomas Witting)

MOUSE BRAIN DEVELOPMENT



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Book Condition: New. Publisher/Verlag: Springer, Berlin | Our understanding of the molecular mechanisms involved in mammalian brain development remains limited. However, the last few years have witnessed a quantum leap in our knowledge, due to technological improvements, particularly in molecular genetics. Despite this progress, the available body of data remains mostly phenomenological and reveals very little about the grammar that organizes the molecular dictionary to articulate a phenotype. Nevertheless, the recent progress in genetics will allow us to contemplate, for the first time, the integration of observation into a coherent view of brain development. Clearly, this may be a major challenge for the next century, and arguably is the most important task of contemporary developmental biology. The purpose of the present book is to provide an overview that synthesizes up-to-date information on selected aspects of mouse brain development. Given the format, it was not possible to cover all aspects of brain development, and many important subjects are missing. The selected themes are, to a certain extent, subjective and reflect the interests of the contributing authors. Examples of major themes that are not covered are peripheral nervous system development, including myelination, the development of the hippocampus and several other CNS structures, as well as the developmental function of some important morphoregulatory molecules. | From Spontaneous to Induced Neurological Mutations: A Personal Witness of the Ascent of the Mouse Model.- 1 Introduction.- 2 Beginning: The Values and Limits of Spontaneous Mutations.- 3 Renaissance: New Opportunities and Induced Mutations.- 4 Epilogue.- References.- Mapping Genes that Modulate Mouse Brain Development: A Quantitative Genetic Approach.- 1 Introduction.- 2 Why Brain Weight and Neuron Number Matter.- 2.1 Metabolic Constraints.- 2.2 Functional Correlates.- 2.3 Insights into CNS Development.- 3 Biometric Analysis of the Size and Structure of the Mouse CNS.-...



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