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The Reeler Mouse as a Model of Brain Development



Springer

Reeler Mouse As A Model Of Brain Development

Jiyuan Zhang



Reeler Mouse As A Model Of Brain Development:

The Reeler Mouse as a Model of Brain Development Catherine Lambert de Rouvroit, Andre M. Goffinet, 2013-03-12
Only five years ago nobody in his right mind would have considered publishing a book on reeler as a model for brain development. Although this interesting mutation has been with us for half a century it is fair to say that in spite of a wave of enthusiasm in the late sixties and early seventies generated primarily by Sidman Caviness and colleagues studies of reeler mice fell progressively out of fashion during the next two decades. All that changed almost overnight when the cloning of the reeler gene, dubbed *reelin*, was reported in Tom Curran's laboratory in 1995. The fact that the same gene was identified at the same time independently by two other groups using positional cloning suggested strongly that *reelin* was the right candidate. Although the key experiments of transgenic rescue have not been made and perhaps will never be, the equation *reeler* is *reelin* has been established beyond reasonable doubt as alterations of the *reelin* gene and/or its expression have been found in at least five alleles of *reeler* and in the mutation *Shaking Rat* (Kawasaki SRK), an ortholog of *reeler*.
[The Reeler Mouse As a Model of Brain Development](#) Catherine Lambert De Rouvroit, Andre M Goffinet, 1998-09-28
[The Reeler Mouse as a Model of Brain Development](#) Catherine Lambert de Rouvroit, Andre M. Goffinet, 1998-09-28
This book provides a background on the genetics of cortical development. It focuses on *reeler* but also introduces other aspects of normal and abnormal brain development. The evolutionary aspects together with some clinical perspectives are also discussed.
Mouse Brain Development Andre M. Goffinet, Pasko Rakic, 2012-08-10
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.

Brain Development and Cognition Mark H. Johnson, Yuko Munakata, Rick O. Gilmore, 2008-04-15
The first edition of this successful reader brought together key readings in the area of developmental cognitive neuroscience for students. Now updated in order to keep up with this fast-moving field, the volume includes new readings illustrating recent developments.

along with updated versions of previous contributions

Brain Development Michael W. Miller, 2006-04-06 This text

describes both the intricate events underlying normal development of the nervous system and how alcohol and nicotine interfere with that development It highlights the plasticity and resilience of the developing brain as well as the targeted effects of each toxin

Clinical Neuroembryology Hans J. ten Donkelaar, Martin Lammens, Akira Hori, 2023-09-11 This book provides a comprehensive overview of the development of the human central nervous system CNS in the context of its many developmental disorders due to genetic environmental and hypoxic ischaemic causes The book contains three general introductory chapters in which an overview of the development of the human brain and spinal cord a summary of mechanisms of development as obtained in experimental studies in various invertebrates and vertebrates and an overview of the causes of congenital malformations are presented The developmental disorders of the human brain and spinal cord are presented in a regional more or less segmental way starting with neurulation and neural tube defects and ending with developmental disorders of the cerebral cortex These chapters are abundantly illustrated in colour with carefully chosen clinical case studies with imaging data and when available postmortem verification of the developmental disorders involved In the third edition more emphasis has been given to the developmental ontology based on the prosomeric approach and fetal development Prenatal diagnosis by ultrasound MRI and DTI and classifications of developmental disorders have been updated A number of new Clinical Cases have been included Several new co authors participate in various chapters The book is intended for advanced medical students and all those clinicians working with children and adults with developmental disorders of the CNS Unique to the book is the integration of data from human embryology experimental and molecular findings in mice in particular imaging and developmental neuropathology

Developmental Neurobiology Mahendra S. Rao, Marcus Jacobson, 2006-04-04 This consistent and well illustrated text is an up to date survey of cellular and molecular events contributing to the assembly of the vertebrate nervous system Chapters include a mixture of historical content and descriptions from literature that best illustrate specific aspects of development

Reelin-Related Neurological Disorders and Animal Models Laura Lossi, Adalberto Merighi, Gabriella D'Arcangelo, 2017-03-14 The Reeler mutation was

so named because of the alterations in gait that characterize homozygous mice Several decades after the description of the Reeler phenotype the mutated protein was discovered and named Reelin Reln Reln controls a number of fundamental steps in embryonic and postnatal brain development A prominent embryonic function is the control of radial neuronal migration As a consequence homozygous Reeler mutants show disrupted cell layering in cortical brain structures Reln also promotes postnatal neuronal maturation Heterozygous mutants exhibit defects in dendrite extension and synapse formation correlating with behavioral and cognitive deficits that are detectable at adult ages The Reln encoding gene is highly conserved between mice and humans In humans homozygous RELN mutations cause lissencephaly with cerebellar hypoplasia a severe neuronal migration disorder that is reminiscent of the Reeler phenotype In addition RELN deficiency or dysfunction is also correlated

with psychiatric and cognitive disorders such as schizophrenia bipolar disorder and autism as well as some forms of epilepsy and Alzheimer's disease Despite the wealth of anatomical studies of the Reeler mouse brain and the molecular dissection of Reelin signaling mechanisms the consequences of Reelin deficiency on the development and function of the human brain are not yet completely understood This Research Topic includes reviews that summarize our current knowledge of the molecular aspects of Reelin function original articles that advance our understanding of its expression and function in different brain regions and reviews that critically assess the potential role of Reelin in human psychiatric and cognitive disorders

Microbial Status and Genetic Evaluation of Mice and Rats National Research Council, Institute for Laboratory Animal Research, International Committee of the Institute for Laboratory Animal Research, 2000-11-30 US Japan meetings on laboratory animal science have been held virtually every year since 1980 under the US Japan Cooperative Program on Science and Technology Over the years these meetings have resulted in a number of important documents including the Manual of Microbiologic Monitoring of Laboratory Animals published in 1994 and the article Establishment and Preservation of Reference Inbred Strains of Rats for General Purposes In addition to these publications the meetings have been instrumental in increasing awareness of the need for microbiologic monitoring of laboratory rodents and the need for genetic definition and monitoring of mice and rats In cooperation with the Comparative Medicine section of NCRR NIH the ILAR Council and staff are pleased to become the host for this important annual meeting and look forward to participating in future meetings The support and sponsorship of NCRR P40 RR 11611 in the United States and the Central Institute for Experimental Animals in Japan are gratefully acknowledged Bringing together the leading scientists in the field of laboratory animal care has resulted in increased understanding of American and Japanese approaches to laboratory animal science and should continue to strengthen efforts to harmonize approaches aimed at resolving common challenges in the use of animal models for biomedical research and testing This effort to improve understanding and cooperation between Japan and the United States should also be useful in developing similar interaction with other regions of the world including Europe Australia and Southeast Asia **Research Awards Index**, 1988 **The CA3 Region of the Hippocampus: How is it?**

What is it for? How does it do it? Enrico Cherubini, Richard Miles, 2015-08-19 The CA3 hippocampal region receives information from the entorhinal cortex either directly from the perforant path or indirectly from the dentate gyrus via the mossy fibers MFs According to their specific targets principal mossy cells or interneurons MFs terminate with large boutons or small filopodial extensions respectively MF CA3 synapses are characterized by a low probability of release and pronounced frequency dependent facilitation In addition MF terminals are endowed with mGluRs that regulate their own release We will describe the intrinsic membrane properties of pyramidal cells which can sometimes fire in bursts together with the geometry of their dendritic arborization The single layer of pyramidal cells is quite distinct from the six layered neocortical arrangement The resulting aligned dendrites provides the substrate for laminated excitatory inputs They also

underlie a precise diversity of inhibitory control which we will also describe in detail The CA3 region has an especially rich internal connectivity with recurrent excitatory and inhibitory loops In recent years both in vivo and in vitro studies have allowed to better understand functional properties of the CA3 auto associative network and its role in information processing This circuit is implicated in encoding spatial representations and episodic memories It generates physiological population synchronies including gamma theta and sharp waves that are presumed to associate firing in selected assemblies of cells in different behavioral conditions The CA3 region is susceptible to neurodegeneration during aging and after stresses such as infection or injury Loss of some CA3 neurones has striking effects on mossy fiber inputs and can facilitate the generation of pathologic synchrony within the CA3 micro circuit The aim of this special topic is to bring together experts on the cellular and molecular mechanisms regulating the wiring properties of the CA3 hippocampal microcircuit in both physiological and pathological conditions synaptic plasticity behavior and cognition We will particularly emphasize the dual glutamatergic and GABAergic phenotype of MF CA3 synapses at early developmental stages and the steps that regulate the integration of newly generated neurons into the adult dentate gyrus CA3 circuit

Animal Models Of Neuropsychiatric Diseases Michael Koch, 2006-05-11 Animal models of neuro and psychopathological states in humans are an indispensable part of both experimental neurology and biological psychiatry Written by a team of experts this book provides an up to date detailed overview of the current approaches to the design of viable animal models for eight prominent neuropsychiatric diseases The book is specifically written with the research oriented reader in mind both in academia and the pharmaceutical industry It contains first hand information on how to design viable animal models for Alzheimer s disease epilepsy Huntington s disease Parkinson s disease addiction depression fear and anxiety and schizophrenia Each chapter also critically discusses the limitations of the animal experimental approach towards an understanding of human neuropsychiatric disorders The book is an essential source of reference for researchers who seek to successfully continue and elaborate the experimental work that will finally lead to a better understanding of the neurobiological basis of the diseases as well as to an improvement of both diagnosis and therapy

The Cognitive Neurosciences Michael S. Gazzaniga, 2004 The third edition of a work that defines the field of cognitive neuroscience with extensive new material including new chapters and new contributors

Animal Models for Neurodegenerative Disease Jesus Avila, Jose J Lucas, Felix Hernandez, 2011-05-30 In recent years medical developments have resulted in an increase in human life expectancy Some developed countries now have a larger population of individuals aged over 64 than those under 14 One consequence of the ageing population is a higher incidence of certain neurodegenerative disorders In order to prevent these we need to learn more about them This book provides up to date information on the use of transgenic mouse models in the study of neurodegenerative disorders such as Alzheimer s and Huntington s disease By reproducing some of the pathological aspects of the diseases these studies could reveal the mechanism for their onset or development Some of the transgenic mice can also be used as targets for testing new

compounds with the potential to prevent or combat these disorders The editors have extensive knowledge and experience in this field and the book is aimed at undergraduates postgraduates and academics The chapters cover disorders including Alzheimer s disease Parkinson s disease Huntington s and other CAG diseases amyotrophic lateral sclerosis ALS recessive ataxias disease caused by prions and ischemia **The Neurobiology of Autism** Margaret L. Bauman,Thomas L.

Kemper,2005-01-05 In the decade since the first edition of The Neurobiology of Autism was published research has revealed valuable new information about the nature and origins of autism including genetics and abnormalities in such neurotransmitters as acetylcholine and serotonin For this long anticipated new edition neurologists Margaret L Bauman and Thomas L Kemper bring together leading researchers and clinicians to present the most current scientific knowledge and theories about autism The contributors cover genetics imaging studies physiology neuroanatomy and neurochemistry immunology brain function the epidemiology of the disease and related disorders Thoroughly updated The Neurobiology of Autism remains the best single volume work on the wide array of research being conducted into the causes characteristics and treatment of autism Contributors George M Anderson Yale Child Study Center Tara L Arndt University of Rochester Medical Center URMCTrang Au University of Massachusetts Medical School UMMC Jocelyne Bachevalier University of Texas Health Science Center Irina N Beshpalova Seaver Autism Research Center Mt Sinai School of Medicine SARC Gene J Blatt Boston University School of Medicine BUSM Susan E Bryson IWK Health Centre Dalhousie University Timothy M Buie Massachusetts General Hospital MGH Joseph D Buxbaum SARC Kathryn M Carbone The Johns Hopkins University School of Medicine JHUSM Diane C Chugani Wayne State University Daniel F Connor UMMC Edwin H Cook Jr University of Chicago S Hossein Fatemi University of Minnesota Medical School Susan E Folstein Tufts University School of Medicine Eric Fombonne McGill University Randi Jenssen Hagerman UC Davis Medical Center Elizabeth Petri Henske Fox Chase Cancer Center Philadelphia Jeannette J A Holden Queen s University Ronald J Killiany BUSM Omanand Koul UMMC Mandy Lee Newcastle General Hospital U K Xudong Liu Queen s University Tara L Moore BUSM Mark B Moss BUSM Karin B Nelson National Institute of Neurological Disorders and Stroke Phillip G Nelson National Institute of Child Health and Human Development Elaine Perry Newcastle General Hospital Jonathan Pevsner JHUSM Mikhail V Pletnikov JHUSM Stephen W Porges University of Illinois at Chicago Lucio Rehbein Universidad de la Frontera Chile Jennifer Reichert SARC Patricia M Rodier URMCBeth Rosen Sheidley MGH Susan L Smalley UCLA Neuropsychiatric Research Institute Ronald J Steingard UMMC Helen Tager Flusberg BUSM Gary L Wenk University of Arizona Andrew W Zimmerman JHUSM **Behavioral Genetics of the Mouse** Wim E. Crusio,Frans Sluyter,Susanna Pietropaolo,R. T. Gerlai,2014-09-25 A comprehensive and critical overview of the major genetically modified mouse lines used to model human neurobehavioral disorders *Behavioral Genetics of the Mouse: Volume 2, Genetic Mouse Models of Neurobehavioral Disorders* Susanna Pietropaolo,Frans Sluyter,Wim E.

Crusio,2014-09-25 The second volume of Behavioral Genetics of the Mouse provides a comprehensive overview of the major

genetically modified mouse lines used to model human neurobehavioral disorders from disorders of perception of autonomous and motor functions to social and cognitive syndromes drug abuse and dependence as well as neurodegenerative pathologies Mouse models obtained with different types of genetic manipulations i e transgenic knockout in mice are described in their pathological phenotypes with a special emphasis on behavioral abnormalities The major results obtained with many of the existing models are discussed in depth highlighting their strengths and limitations A lasting reference the thorough reviews offer an easy entrance into the extensive literature in this field and will prove invaluable to students and specialists alike

Index Medicus ,2002 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings Reelin Glycoprotein S.H. Fatemi,2008-06-04 Reelin glycoprotein is a serine protease with important roles in embryogenesis and during adult life Reelin mutations or deficiency of the protein product could cause abnormal cortical development and reelin signaling impairment in brain Reelin abnormalities in several neuropsychiatric disorders such as autism schizophrenia mood disorders and lissencephaly may provide mechanistic explanations for etiologies of these disorders There is also emerging data indicating the feasibility of using various medications valproic acid olanzapine to increase mRNA protein levels for reelin and or gene therapy to prevent or treat reelin deficiencies observed in the above mentioned disorders This comprehensive and integrative book examines the role that reelin plays in the etiology of various neuropsychiatric disorders including schizophrenia and autism

Embracing the Song of Expression: An Mental Symphony within **Reeler Mouse As A Model Of Brain Development**

In a global consumed by monitors and the ceaseless chatter of quick conversation, the melodic beauty and mental symphony developed by the written word usually diminish in to the backdrop, eclipsed by the persistent noise and disturbances that permeate our lives. Nevertheless, situated within the pages of **Reeler Mouse As A Model Of Brain Development** a wonderful literary prize filled with raw thoughts, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, this interesting masterpiece conducts viewers on a mental journey, well unraveling the concealed tunes and profound affect resonating within each carefully constructed phrase. Within the depths of this moving evaluation, we can examine the book is main harmonies, analyze their enthralling publishing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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