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## **The Reeler Mouse as a Model of Brain Development**



Springer

# Reeler Mouse As A Model Of Brain Development

**Roberto Canitano, Yuri Bozzi**



## **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

**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 is the first book about both normal development of the nervous system and how early exposure to alcohol and nicotine interferes with this development. The developing nervous system is highly dynamic and vulnerable to genetic and epigenetic factors that can be additive or

synergistic Disruption of normal brain development leads to an array of developmental disorders One of the most common of these is mental retardation the prime cause of which is prenatal exposure to alcohol As chapters in this book show alcohol has direct effects on the developing neural system and it affects genetic regulation Another common neurotoxin is nicotine and it is discussed in this book for three reasons 1 the number of adolescents who smoke cigarettes is rising in some populations 2 prenatal exposure to nicotine affects neurotransmitter systems that are critical for normal brain development and cognition and 3 prenatal exposure to nicotine is often accompanied by prenatal exposure to alcohol LThe mature brain is the culmination of an orderly sequence of the basic ontogenetic processes cell proliferation migration differentiation and death Neural stem cells and progenitors proliferate in discrete sites then young neurons migrate long distances to their residences where they form neural networks During this sequence many immature cells die presumably eliminating unsuitable or non competitive cells Each process is regulated by genetic and environmental factors When this regulation goes awry a dysmorphic and dysfunctional brain results Though this can be tragic in clinical settings in experimental contexts it provides keen insight into normal brain development LThe book is divided into three parts The first describes neural ontogeny in the normal brain The second and third deal with the consequences of early exposure to alcohol and nicotine Though there are similarities in the effects of these two toxins there are also intriguing differences The commonalities reflect the plasticity and resilience of the developing brain while the differences point to the targeted effects of the two toxins Exploring these effects brings a richer appreciation of brain development The book will be of interest to neuroscientists developmental biologists teratologists pharmacologists toxicologists neurologists neuropsychologists and to their students and trainees

*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, 2000-10-30 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      *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 Reln signaling mechanisms the consequences of Reln deficiency on the development and function of the human brain are not yet completely understood This Research Topic include reviews that summarize our current knowledge of the molecular aspects of Reln 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 Reln in human psychiatric and cognitive disorders      *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 *Cellular Migration and Formation of Neuronal Connections* ,2013-05-06 The genetic molecular and cellular mechanisms of neural development are essential for understanding evolution and disorders of neural systems Recent advances in genetic molecular and cell biological methods have generated a massive increase in new information but there is a paucity of comprehensive and up to date syntheses references and historical perspectives on this important subject The Comprehensive Developmental Neuroscience series is designed to fill this gap offering the most thorough coverage of this field on the market today and addressing all aspects of how the nervous system and its components develop Particular attention is paid to the effects of abnormal development and on new psychiatric neurological treatments being developed based on our increased understanding of developmental mechanisms Each volume in the series consists of review style articles that average 15 20pp and feature numerous illustrations and full references Volume 2 offers 56 high level articles devoted mainly to Formation of Axons and Dendrites Migration Synaptogenesis Developmental Sequences in the Maturation of Intrinsic and Synapse Driven Patterns Series offers 144 articles for 2904 full color pages addressing ways in which the nervous system and its components develop Features leading experts in various subfields as Section Editors and article Authors All articles peer reviewed by Section Editors to ensure accuracy thoroughness and scholarship Volume 2 sections include coverage of mechanisms which regulate the formation of axons and dendrites cell migration synapse formation and maintenance during development and neural activity from cell intrinsic maturation to early correlated patterns of activity

**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 **Index Medicus** ,2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings Gaba in Autism and Related Disorders Dirk M. Dhossche,2005-12-07 Gamma aminobutyric acid GABA was discovered in the brain in 1950 by Eugene Roberts GABA is now considered one of the most

important neurotransmitters and developmental signals Knowledge on the complexity of GABA function is increasing exponentially This volume covers basic research on GABA in the developing brain as it may relate to onset of autism and related developmental disorders The evidence that dysfunction of GABA and related molecules is associated with autism is limited but expanding and seems to converge Pertinent data are reviewed in this book and new research avenues in the basic and clinical arenas are described The topics are of imminent interest to basic and clinical researchers as well as interested clinicians Discusses the neuropathology of the GABA system in autism Presents new findings on common genetic mechanisms in Rett syndrome Angelman syndrome and autism Includes information on the shared genetic risk factors between autism and major mental disorders Foreword by Eugene Roberts      *Why Have Cortical Layers? What Is the Function of Layering? Do Neurons in Cortex Integrate Information Across Different Layers?* Kathleen Rockland, Javier DeFelipe, 2018-12-21

**Cumulated Index Medicus** ,1999      *Stem and Progenitor Cells in the Central Nervous System* R.S. Nowakowski, 2004 This publication focuses on the biology of stem and progenitor cells in the developing and mature central nervous system their response to trauma and potential uses in therapy The authors who are leading experts in the field address topical questions from both basic and clinical neuroscience perspectives such as non invasive imaging of stem cell division the origins of regional diversity in cell types and cell numbers in the stem cell progeny factors that regulate generation of neurons and glial cells from stem cells during normal development the role of genetic and environmental factors in the regulation of stem cell function the role of stem cells in mediating the effects of brain trauma and its recovery and the therapeutic uses of stem cells Offering a unique compilation of articles on the biology and the therapeutic applications of stem cells in the embryonic and mature nervous systems this volume will be of great value to neuroscientists developmental biologists cancer biologists and clinical neurologists      **Drug Discovery and Evaluation: Pharmacological Assays** Hans Vogel, 2007-10-30 The new edition of this successful reference offers both cutting edge and classic pharmacological methods Thoroughly revised and expanded to two volumes it offers an updated selection of the most frequently used assays for reliably detecting the pharmacological effects of potential drugs Every chapter has been updated and numerous assays have been added Each of the more than 1 000 assays comprises a detailed protocol outlining purpose and rationale and a critical assessment of the results and their pharmacological and clinical relevance      Neurobiology of Autism ,2013-11-27 This volume in the International Review of Neurobiology is a comprehensive overview of the state of the art research into autism pathophysiology Its chapters cover a wide range of etiologies from genetics and development to environmental factors In addition it discusses key cell and behavioral phenotypes including cortical and cerebellar phenotypes as well as language and motor outputs Finally this volume s chapters on gene expression in the brain describe how genes may be connected to phenotypes in autism Broad coverage of genetic and cellular phenotypes in autism Focused on basic research Chapters primarily written by new investigators with a fresh perspective on the biological underpinnings of autism      **Mechanisms**

**of Cellular Differentiation, Organ Development, and Novel Model Systems** Benedetta Artegiani, Delilah Hendriks, Kai Kretzschmar, 2022-09-29      **New treatment perspectives in autism spectrum disorders** Roberto Canitano, Yuri Bozzi, 2015-04-17

Developing novel and more effective treatments that improve quality of life for individuals with autism spectrum disorders is urgently needed. To date, a wide range of behavioral interventions have been shown to be safe and effective for improving language and cognition and adaptive behavior in children and adolescents with ASD. However, many people with ASD can receive additional benefit from targeted pharmacological interventions. One of the major drawbacks in setting up therapeutic intervention is the remarkable individual differences found across individuals with ASD. As a matter of fact, the medications that are currently available address only symptoms associated with ASD and not the core domains of social and communication dysfunction. The pathogenesis paradigm shift of ASD towards synaptic abnormalities moved the research to pathways to disease that involve multiple systems and that are becoming the forefront of ASD treatment and are pointing toward the development of new targeted treatments. Some new therapeutics have been tested and others are being studied. In this context, single gene disorders frequently associated with ASD, such as Rett Syndrome, Fragile X, and Tuberous Sclerosis, have been of significant aid as neurobiology of these disorders is more clear and has a potential to shed light on the altered signaling in ASD. However, much research is needed to further understand the basic mechanisms of disease and the relationship to idiopathic ASD. Clinical trials in children are underway with agents directed to core symptoms and to the associated disorders in the search of new therapeutics and progress is expected with possible new options for therapeutics in ASD in the upcoming future. Children and adolescents with ASD and their families can provide important information about their experience with new treatments and this should be a priority for future research. In addition, research performed on genetic mouse models of ASD will keep on providing useful information on the molecular pathways disrupted in the disease, thus contributing to identify novel drug targets.



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