

Mouse Genetics and Transgenics

A PRACTICAL APPROACH

Edited by

I. J. JACKSON and C. M. ABBOTT



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Mouse Genetics And Transgenics A Practical Approach

Ian J. Jackson, Catherine M. Abbott



Mouse Genetics And Transgenics A Practical Approach:

Mouse Genetics and Transgenics ,1999-12-09 A unique book that integrates knowledge from a wide range of expertise specifically applied to the mouse and addressed at a wide audience from those new to the field to experts who want an update on the state of the art Mouse Genetics and Transgenics covers all aspects of using the mouse as a genetic model organism care archiving stocks as frozen embryos or sperm making new mutations by chemical mutagenesis transgenesis and gene targeting mapping mutations and polygenic traits by cytogenetic genetic and physical means and disseminating and researching information via the Internet **Mouse Genetics and Transgenics** Ian J. Jackson,Catherine M.

Abbott,2000 This unique book integrates knowledge from a wide range of expertise specifically applied to the mouse and addressed at a wide audience fro m those new to the field to experts who want an update on the state of the art Mouse Genetics and Transgenics A Practical Approach covers all aspects of using the mouse as a genetic model organism care and husbandry archiving stocks as frozen embryos or sperm making new mutations by chemical mutagenesis transgenesis gene targeting mapping mutations and polygenic traits by cytogenetic genetic and physical means and disseminating and researching information via the Internet **What's Wrong With My Mouse?** Jacqueline N. Crawley,2007-03-23 Dr Jacqueline N Crawley author of the First and Second Editions of What s Wrong with My Mouse Behavioral Phenotyping of Transgenic and Knockout Mice continues to field calls and e mails from molecular geneticists who ask how do I run behavioral assays to find out what s wrong with my mouse Turn to What s Wrong with My Mouse to discover the wealth of mouse behavioral tasks and to get the guidance you need to select the best methods and necessary controls Chapters are organized by behavioral domain including measurements of general health motor functions sensory abilities learning and memory feeding and drinking reproductive social emotional and reward behaviors in mutant mice Throughout the chapters new behavioral tasks and new research discoveries have been added bringing the Second Edition up to date with the latest science In addition the Second Edition includes two new chapters Neurodevelopment and Neurodegeneration discusses mouse behavioral tasks relevant to neurodevelopmental diseases such as mental retardation and autism and to neurodegenerative diseases such as Alzheimers Parkinsons Huntingtons and amyotrophic lateral sclerosis Putting It All Together recommends strategies for optimizing a battery of behavioral phenotyping tests to address your specific hypotheses about gene functions The final chapter The Next Generation examines new and emerging technologies Throughout the book the use of behavioral testing equipment is illustrated with photographs diagrams and representative data Examples of behavioral tasks successfully applied to transgenic and knockout mouse models are provided as well as references to the primary literature and step by step methods protocols These features along with a comprehensive index listings of database and vendor websites and an extensive list of references make this book a valuable and practical resource for students and researchers The Mouse in Biomedical Research ,2006-12-04 History Wild Mice and Genetics the first volume in the four

volume set *The Mouse in Biomedical Research* provides information about the history biology and genomics of the laboratory mouse *Mus musculus* as well as basic information on maintenance and use of mouse stocks Mouse origins and relationships are covered in chapters on history evolutionary taxonomy and wild mice Genetics and genomics of the mouse are covered in chapters on genetic nomenclature gene mapping cytogenetics and the molecular organization of the mouse genome Maintenance of laboratory mice is described in chapters on breeding systems for various types of strains and stocks and genetic monitoring Use of the mouse as a model system for basic biomedical research is described in chapters on chemical mutagenesis gene trapping pharmacogenetics and embryo manipulation The information in Volume 1 serves as a primer for scientists new to the field of mouse research [Manipulating the Mouse Embryo](#) Andras Nagy,2003 Provides background information and detailed protocols for developing a mouse colony and using the animals in transgenic and gene targeting experiments The protocols list the animals equipment and reagents required and step by step procedures Topics include in vitro culture of preimplantation embryos surgical procedures the production of chimeras and the analysis of genome alterations The third edition adds protocols for cloning mice modifying embryonic stem cells intracytoplasmic sperm injection and cryopreservation of embryos **Mouse Genetics and Transgenetics** Ian J. Jackson,Catherine M. Abbott, All aspects of using the mouse as a genetic model organism are covered in this text care and husbandry archiving stocks chemical mutagenesis transgenesis gene targetting genetic and physical means and information on the Internet **The Cancer Handbook** Malcolm Alison,2002 Provides a comprehensive overview of all major areas of cancer research and oncology Bridging the gap between the molecular biology of cancer and clinical diagnosis and treatment this online reference work provides a resource for medical and life sciences students as well as all scientists clinicians and researchers working in the cancer field and related biomedical areas **Nature Encyclopedia of the Human Genome: Mitochondrial heteroplasmy and disease - Relatives-based test for linkage disequilibrium: the transmission** David Neil Cooper,2003 *Proceedings of the ... Annual Conference* Society for Theriogenology. Conference,1999 [The Jackson Laboratory](#) ,2000 [TremorD](#) Holly Ann Timms,2005 *Identification of Novel Candidate Obesity Genes in Hepatic Lipase Knockout BSB Mice* Poupak Farahani,2003 *Oncogenomics* Charles Brenner,David Duggan,2004-03-29 This book aims to assemble the only available rigorous yet broadly accessible introduction to this new and exciting field Oncogenomics Molecular Approaches to Cancer is approachable by basic scientists practitioners and other health professionals required to familiarize themselves with the tremendous impact of genomics and proteomics on cancer research Clearly written chapters offer reviews of state of the art topics such as molecular classification early detection SNPs in cancer data mining tissue microarrays protein and antibody arrays and drug targets [Comparative Medicine](#) ,2003 [Scientific Report](#) Jackson Laboratory (Bar Harbor, Me.),2000 *Subject Guide to Books in Print* ,2001 *Investigative Ophthalmology & Visual Science* ,2002 **The Mouse in Biomedical Research: Normative biology, husbandry, and models** James G. Fox,2007

Dedicated to the understanding of the mouse and its role in scientific research This valuable compendium serves as a standard reference source of information for students embarking on scientific careers specialists in laboratory animal science technicians in both animal care and research and the broad scientific community **American Book Publishing Record** R.R. Bowker Company, 1978 Annual Review of Genetics ,2002 Publishes original critical reviews of the significant literature and current development in genetics

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