

Eugene J. Eisen
editor

The Mouse in
Animal Genetics and
Breeding Research



Imperial College Press

The Mouse In Animal Genetics And Breeding Research

AW Rasmussen



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The Mouse in Animal Genetics and Breeding Research Eugene J. Eisen, 2005 The sequencing of the mouse genome has placed the mouse front and center as the most important mammalian genetics model However no recent volume has detailed the genetic contributions the mouse has made across the spectrum of the life sciences this book aims to fill that vacuum Mouse genetics research has made enormous contributions to the understanding of basic genetics human genetics and livestock genetics and breeding The wide ranging topics in the book include the mouse genome sequencing effort molecular dissection of quantitative traits embryo biotechnology ENU mutagenesis and genetics of disease resistance and have been written by experts in their respective fields Chapter 1 The Beginnings Ode To A Wee Mouse 58 KB **The Mouse in Animal Genetics and Breeding Research** Eugene J. Eisen, 2005 The sequencing of the mouse genome has placed the mouse front and center as the most important mammalian genetics model However no recent volume has detailed the genetic contributions the mouse has made across the spectrum of the life sciences this book aims to fill that vacuum Mouse genetics research has made enormous contributions to the understanding of basic genetics human genetics and livestock genetics and breeding The wide ranging topics in the book include the mouse genome sequencing effort molecular dissection of quantitative traits embryo biotechnology ENU mutagenesis and genetics of disease resistance and have been written by experts in their respective fields Chapter 1 The Beginnings Ode To A Wee Mouse 58 KB *Mouse Behavioral Testing* Douglas Wahlsten, 2010-11-25 Mouse Behavioral Testing How to Use Mice in Behavioral Neuroscience provides detailed explanations of how to conduct an experiment on mouse behavior from the initial planning of the research design through every step of the process until the data analysis phase The book discusses the practical matters that need to be considered carefully when working with any species of animal such as how many animals need to be tested It describes the tests and techniques devised specifically for work with mice Every step of the research process is illustrated with real situations encountered in previous studies All examples are based on real experiments and extensive details of several published experiments are provided The essential features of a behavioral test protocol are outlined and several complete protocols are provided Methods to balance the order of tests and determine throughput are described then a completely balanced order of tests in a complex experiment is presented The book will be useful for those already familiar with the general principles of research but are new to the realm of behavioral testing of live mice It will also serve as a text for a formal course most likely at the graduate level A guide to running a behavioral testing lab including the many aspects of mouse research beyond the confines of the specific test Diagrams and photographs are shown for many kinds of apparatus and test situations with sufficient details such as dimensions to enable building of replicas Provides step by step instructions on planning and executing behavioral experiments in order to run them successfully **Behavioral Genetics of the Mouse: Volume 1, Genetics of Behavioral Phenotypes** Wim E. Crusio, Frans Sluyter, Robert T. Gerlai, Susanna

Pietropaolo,2013-04-25 The first volume in the new Cambridge Handbooks in Behavioral Genetics series Behavioral Genetics of the Mouse provides baseline information on normal behaviors essential in both the design of experiments using genetically modified or pharmacologically treated animals and in the interpretation and analyses of the results obtained The book offers a comprehensive overview of the genetics of naturally occurring variation in mouse behavior from perception and spontaneous behaviors such as exploration aggression social interactions and motor behaviors to reinforced behaviors such as the different types of learning Also included are numerous examples of potential experimental problems which will aid and guide researchers trying to troubleshoot their own studies A lasting reference the thorough and comprehensive reviews offer an easy entrance into the extensive literature in this field and will prove invaluable to students and specialists alike

Improving the Sensory and Nutritional Quality of Fresh Meat Joseph Kerry,2009-01-22 Understanding of the scientific basis of quality attributes in meat is becoming more advanced providing more effective approaches to the control of meat eating and technological quality This important collection reviews essential knowledge of the mechanisms underlying quality characteristics and methods to improve meat sensory and nutritional quality Part one analyses the scientific basis of meat quality attributes such as texture and tenderness colour water holding capacity and flavour development Chapters on the nutritional quality of meat and meat sensory evaluation complete the section Part two discusses significant insights into the biology of meat quality obtained from genomic and proteomic perspectives with chapters focussing on different types of meat Parts three and four then review production and processing strategies to optimise meat quality considering aspects such as production practices and meat nutritional quality dietary antioxidants and antimicrobials carcass interventions chilling and freezing and packaging Methods of meat grading and quality analysis are also included With its distinguished editors and international team of contributors Improving the sensory and nutritional quality of fresh meat is a standard reference for those industrialists and academics interested in optimising meat quality Reviews methods to improve meat sensory and nutritional quality considering the effects of different production practices such as chilling freezing and packaging Analyses the scientific basis of meat quality attributes covering texture tenderness colour and water holding capacity Examines production and processing strategies to optimise meat quality including the current state of development and future potential

Essentials of Laboratory Animal Science: Principles and Practices P. Nagarajan,Ramachandra Gudde,Ramesh Srinivasan,2021-07-23 This book comprehensively reviews the anatomy physiology genetics and pathology of laboratory animals as well as the principles and practices of using laboratory animals for biomedical research It covers the design of buildings used for laboratory animals quality control of laboratory animals and toxicology and discusses various animal models used for human diseases It also highlights aspects such as handling and restraint and administration of drugs as well as breeding and feeding of laboratory animals and provides guidelines for developing meaningful experiments using laboratory animals Further the book discusses various alternatives to animal experiments for drug and chemical testing

including their advantages over the current approaches Lastly it examines the potential effect of harmful pathogens on the physiology of laboratory animals and discusses the state of art in in vivo imaging techniques The book is a useful resource for research scientists laboratory animal veterinarians and students of laboratory animal medicine **Animal Breeding Abstracts** ,1985

Molecular and Quantitative Animal Genetics Hasan Khatib,2015-03-02 Animal genetics is a foundational discipline in the fields of animal science animal breeding and veterinary sciences While genetics underpins the healthy development and breeding of all living organisms this is especially true in domestic animals specifically with respect to breeding for key traits Molecular and Quantitative Animal Genetics is a new textbook that takes an innovative approach looking at both quantitative and molecular breeding approaches The book provides a comprehensive introduction to genetic principles and their applications in animal breeding This text provides a useful overview for those new to the field of animal genetics and breeding covering a diverse array of topics ranging from population and quantitative genetics to epigenetics and biotechnology Molecular and Quantitative Animal Genetics will be an important and invaluable educational resource for undergraduate and graduate students and animal agriculture professionals Divided into six sections pairing fundamental principles with useful applications the book's comprehensive coverage will make it an ideal fit for students studying animal breeding and genetics at any level **Population Genetics, Quantitative Genetics and Animal Improvement** Michael

P. H. Stumpf, Pedro A. Valdés-Sosa, Robert Brian Heap, Brian Charlesworth, David B. Goldstein, Karl J. Friston, Nicholas W. Wood, Peter Keightley, Rolf Kötter, Peter Visscher, 2005 **Animal Breeding, Welfare and Society** Jacky Turner, 2010 The determination of when how often and with whom an animal breeds is moving rapidly away from evolutionary pressures and towards human purposes these include the breeding of around 50 billion mammals and birds for food production annually the breeding of pedigree dogs and cats racing dogs and horses specialised laboratory animal strains and the use of reproductive science to conserve endangered species or breeds and to limit unwanted populations of pests and non native species But the ethics and sustainability of this takeover of animals reproductive lives have been insufficiently examined by either professionals or the public This book discusses the methods the motivations and the consequences of human intervention in animal breeding in terms of animal health behaviour and well being It explores where we are now and the choices ahead and looks to a future where we have more respect for animals as sentient beings and where we could loosen the reins of reproductive control **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 Philosophical Transactions ,2005 Each issue of Transactions B is devoted to a specific area of the biological sciences including clinical science All papers are peer reviewed and edited to the highest standards Published on the 29th of each month Transactions B is essential reading for all biologists **Directory of Federal Laboratory & Technology Resources** ,1993 *Directory of Federal Laboratory and Technology Resources* ,1994 Describes the individual capabilities of each of 1 900 unique resources in the federal laboratory system and provides the name and phone number of each contact Includes government laboratories research centers testing facilities and special technology information centers Also includes a list of all federal laboratory technology transfer offices Organized into 72 subject areas Detailed indices *Encyclopedia of Genetics* Eric C.R. Reeve,2014-01-14 The Encyclopedia includes 125 entries beginning with the origins of genetics including historical background on the work of Gregor Mendel and Charles Darwin and progressing to the structure of DNA and modern theories such as selfish genes All branches of genetics are covered including the genetics of bacteria viruses insects animals and plants as well as humans Important topical issues such as the human genome project bioethics the law and genetics genetic disorders GM crops and the use of transgenic animals for food and pharmaceutical products are fully surveyed A section on techniques and biotechnology includes modern methods of analysis from DNA fingerprinting to the new science of bioinformatics The articles all written by specialists are largely non mathematical and progress from general concepts to deeper understanding Each essay is fully referenced with suggestions for further reading The text is supplemented by extensive illustrations tables and a color plate section The Encyclopedia of Genetics will be a valuable companion for all those working or studying in the various fields of genetical research and a fascinating reference for all readers with a basic background in biology Also includes color inserts **Laboratory Animal Medicine** James G. Fox,Bennett J. Cohen,Franklin M. Loew,2013-10-02 Laboratory Animal Medicine is a compilation of papers that deals with the diseases and biology of major species of animals used in medical research The book discusses animal medicine experimental methods and techniques design and management of animal facilities and legislation on laboratory animals Several papers discuss the biology and diseases of mice hamsters guinea pigs and rabbits Another paper addresses the dog and cat as laboratory animals including sourcing of these animals housing feeding and their nutritional needs as well as breeding and colony management The book also describes ungulates as laboratory animals including topics on sourcing husbandry preventive medical treatments and housing facilities One paper addresses primates as test animals covering the biology and diseases of old world primates Cebidae and ferrets Some papers pertain to the treatment diseases and needed facilities for birds amphibians and fish Other papers then deal with techniques of experimentation anesthesia euthanasia and some factors spontaneous diseases that complicate animal research The text can prove helpful for scientists

clinical assistants and researchers whose work involves laboratory animals *Laboratory Animal Medicine* Lynn C. Anderson, Glen Otto, Kathleen R. Pritchett-Corning, Mark T. Whary, 2015-07-04 *Laboratory Animal Medicine* Third Edition is a fully revised publication from the American College of Laboratory Medicine's acclaimed blue book series. It presents an up-to-date volume that offers the most thorough coverage of the biology, health, and care of laboratory animals. The book is organized by species with new inclusions of chinchillas, birds, and program and employee management and is written and edited by known experts in the fields. Users will find gold standard guidance on the study of laboratory animal science as well as valuable information that applies across all of the biological and biomedical sciences that work with animals. Organized by species for in-depth understanding of biology, health, and best care of animals. Features the inclusion of chinchillas, quail, and zebra finches as animal models. Offers guidance on program and employee management. Covers regulations, policies, and laws for laboratory animal management worldwide.

Handbook of Mouse Mutations with Skin and Hair Abnormalities
John P. Sundberg, 2020-08-26 *Handbook of Mouse Mutations with Skin and Hair Abnormalities* presents 48 mouse mutations that are all available to the biomedical community. Many of the mouse mutations with dermatological diseases are reviewed and illustrated in detail. This popular reference book gives you a single source to use when determining which mouse mutation will best serve your needs as a biomedical tool for sophisticated research projects. The book also includes an overview of domestic animal genodermatoses to provide alternatives to mouse models that do not exist or to complement those that do. A detailed section written by renowned experts compares the biology of human and mouse skin and skin diseases in the areas of development and the use of animal models, mammalian genetics, keratin biochemistry, epidermal and hair follicle cycles and kinetics, cytokines and growth factors, keratinocyte culture systems, cutaneous carcinogenesis, cutaneous immune system, and skin changes associated with mutations of the endocrine system.

Fine Mapping Distal Mouse Chromosome 2 for Growth and Obesity Traits Using Overlapping Subcongenic Strains
Rodrigo José Gualarte Mérida, 2006 *Animal Models in Toxicology* Shayne C. Gad, 2016-04-05 *Animal Models in Toxicology* is a single source reference for the use of animal models in toxicology. Chapters cover nine species used in toxicology and experimental biology. With contributions from experts in toxicology, toxicological pathology, and species-specific metabolism, each of these chapters provides an excellent introductory course along

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