



The Mouse As A Model Organism

Hongru Du



The Mouse As A Model Organism:

Mouse as a Model Organism Cord Brakebusch, Taina Pihlajaniemi, 2011-03-29 Cell culture based research is important for our understanding of biological processes at the cellular and molecular level Using this approach the previous decades have produced a wealth of mechanistic information in all areas of biomedical research Such in vitro research however lacks the complexity of in vivo investigations where many different cell types interact with each other in a normal three dimensional environment with normal levels of cytokines and growth factors Furthermore complex human diseases such as cancer diabetes or chronic inflammation can only be modeled in vivo Due to its small size its short reproduction time and the possibility to introduce specific gene mutations the mouse has become the favourite mammalian model organism to study in vivo function of genes during development and in disease This book combines review articles on selected subjects presented at the symposium Mouse as a Model Organism From Animals to Cells held in Rovaniemi Finland 2009 Among other topics high throughput phenotyping of mouse mutants mouse phenotypes dependent on nature and nurture and a spectrum of in vivo ex vivo and in vitro methods to study cancer in mice are described This book will give an excellent introduction to scientists interested in the use of mice as a model to understand complex biological questions in the post genomic era It will highlight the possibilities but also discuss the current problems and shortcomings to give a realistic view of the current state of art in this fascinating field of biomedical research

Model Organisms in Drug Discovery Pamela M. Carroll, Kevin Fitzgerald, 2004-04-21 Fruit flies are little people with wings goes the saying in the scientific community ever since the completion of the Human Genome Project and its revelations about the similarity amongst the genomes of different organisms It is humbling that most signalling pathways which define humans are conserved in Drosophila the common fruit fly Feed a fruit fly caffeine and it has trouble falling asleep feed it antihistamines and it cannot stay awake A C elegans worm placed on the antidepressant fluoxetine has increased serotonin levels in its tiny brain Yeast treated with chemotherapeutics stop their cell division Removal of a single gene from a mouse or zebrafish can cause the animals to develop Alzheimer's disease or heart disease These organisms are utilized as surrogates to investigate the function and design of complex human biological systems Advances in bioinformatics proteomics automation technologies and their application to model organism systems now occur on an industrial scale The integration of model systems into the drug discovery process the speed of the tools and the in vivo validation data that these models can provide will clearly help definition of disease biology and high quality target validation Enhanced target selection will lead to the more efficacious and less toxic therapeutic compounds of the future Leading experts in the field provide detailed accounts of model organism research that have impacted on specific therapeutic areas and they examine state of the art applications of model systems describing real life applications and their possible impact in the future This book will be of interest to geneticists bioinformaticians pharmacologists molecular biologists and people working in the pharmaceutical industry particularly genomics

Genetic Studies in Model

Organisms Kwang-Wook Choi, 2024-05-02 This book reviews key advances and new fundamentals in genetics The increasing importance of genetic approaches in diverse areas of biology and medical sciences constantly requires in depth information on genetic discoveries and research strategies for advanced graduate level students as well as current researchers This book focuses on genetic studies of various animal model systems and their major contributions to establishing modern genetics Information covered in this book is mostly based on original research papers that extend from classical to modern genetics and applications The contents are organized into four parts Part I introduces fundamental concepts and experimental strategies in classical genetics Part II discusses molecular genetics with transposons transgenesis clonal analysis and gene editing technologies Part III emphasizes epigenetic regulation of genome organization and gene expression Part IV integrates earlier parts with landmark genetic studies on non coding RNAs in dosage compensation programmed cell death growth control related to cancer and behavioral neurobiology

The Mouse in Biomedical Research, 2006-12-15 Normative Biology Husbandry and Models the third volume in the four volume set The Mouse in Biomedical Research encompasses 23 chapters whose contents provide a broad overview on the laboratory mouse s normative biology husbandry and its use as a model in biomedical research This consists of chapters on behavior physiology reproductive physiology anatomy endocrinology hematology and clinical chemistry Other chapters cover management as well as nutrition gnotobiotics and disease surveillance There are also individual chapters describing the mouse as a model for the study of aging eye research neurodegenerative diseases convulsive disorders diabetes and cardiovascular and skin diseases Chapters on imaging techniques and the use of the mouse in assays of biological products are also included

Cilia: Model Organisms and Intraflagellar Transport, 2009-12-01 Cilia are highly conserved organelles that serve motile functions sensory functions or both These organelles power cell movement generate fluid flow in various organs act as sensors of the extracellular environment and have been modified for various specialized tasks such as light reception and smell Defects in these ubiquitous organelles lead to a broad array of human genetic disorders that range from polycystic kidney disease retinal degeneration epilepsy and infertility to developmental defects such as situs inversus and polydactyly This volume is the third in a three part series on cilia that focuses on the use of model organisms to gain insight into ciliary function and on the process of intraflagellar transport that is essential for the assembly and maintenance of ciliary structures Includes both classic and state of the art methods readily adaptable across model systems and designed to last the test of time Covers forward and reverse genetic analysis of IFT and biochemical methods to define the role of IFT components Methods presented cover molecular genetic and biochemical approaches to ciliary function in model organisms

Rodent model organisms: Human diets and the gut microbiome Ren-You Gan, Naga Betrapally, Hesong Wang, 2025-10-31 The microbiome plays an indispensable role in our health Pathophysiological alteration in the gut microbiota has been linked with the development and maintenance of non communicable diseases such as obesity cancer type 2 diabetes mellitus

cardiovascular diseases and metabolic syndrome Dietary habits have a strong influence on the selection of gut microbiota Diet has a primary role over other factors such as age gender geography and environment in shaping the human gut microbiota Nutrients from the traditional foods used in different countries and culture directly interact with human gut microorganisms to promote or inhibit their growth and subsequently play a major role in overall health There has been also increasing evidence that microorganisms with claimed probiotic properties can exert benefits for human health in different age groups by modulating action on host metabolism physiology nutrition and immune functions In order to better investigation the interaction between diet and microbiota and given the practical and ethical complexity of performing invasive sampling procedures in human subjects high inter individual variation in the diets and in the gut microbiomes of humans and relative ease of using animals with controlled diets for large scale mechanistic and genotypic research studies different types of animals models including rodents mice rats guinea pigs and hamsters rabbits pigs zebra fish and non human primates NHPs e g macaques and vervet monkeys have been developed and are frequently used to investigate the multiple dynamics of host microbiome interactions Among these rodents specifically mice and rats remain the most widely used models for studying the dynamics of host gut microbiome interaction in host nutrition and disease development and are convenient models for exploring avenues for developing novel microbial therapies To characterize human gut microbiota murine models have been hence widely used due to the extensive similarities in anatomy physiology and genetics Rodents represent the most used model for studying the impact of microbiota on its host particularly mouse and rats models that are the most widely used animal models for exploring the roles of human gut microbiota and are often used as model organisms for these studies This Research Topic welcomes Original Research Reviews Mini reviews and Perspective articles related to studies performed in mouse rat models and addressing but not limited to the following sub topics The influence of dietary habits in the selection of gut microbiota The interaction between diets and gut microbiota along with the health consequences The impact of a high fat sugar diet in the intestinal microbiota composition The use of probiotic microorganisms as adjuvants in the treatment or prevention of non communicable diseases like obesity and diabetes The impact of specific food and beverages on the corresponding alterations in the gut microbiota

Model Organisms in Embryonic Development Michael Schubert, Gabriella Lania, Alice Jouneau, Denhi Schnabel, 2025-08-25 The field of developmental biology and the study of embryonic development relies on a diverse range of model systems that offer unique advantages and perspectives allowing researchers to uncover fundamental principles and mechanisms underlying this intricate process This Research Topic aims to explore the diverse array of model organisms used in the study of embryonic development and highlight their valuable insights Contributions to this collection may encompass various experimental approaches comparative analysis revealing different models specific strengths and contributions and covering all aspects of research investigating embryonic development From the more well established models such as fruit flies zebrafish and

Caenorhabditis elegans which have elucidated the mechanisms of embryogenesis pattern formation and tissue morphogenesis to mice frogs and more which have allowed us to in depth genetic manipulation and greater experimental accessibility We welcome many article types including Original Research articles mini Reviews Methods Perspectives and Opinion pieces to provide a comprehensive and multidimensional view of the field Topics of interest include but are not limited to Comparative studies examining similarities and differences in embryonic development across different model organisms shedding light on evolutionary conserved mechanisms Studies investigating the genetic and molecular factors regulating key developmental processes such as gastrulation organogenesis tissue patterning and cell fate determination Research exploring the roles of various signaling pathways such as Wnt Notch TGF beta and Hedgehog in orchestrating embryonic development in different organisms A full list of accepted article types including descriptions can be found at this link

Model Organisms for Microbial Pathogenesis, Biofilm Formation and Antimicrobial Drug Discovery Busi Siddhardha, Madhu Dyavaiah, Asad Syed, 2020-03-28 This book provides essential insights into microbial pathogenesis host pathogen interactions and the anti microbial drug resistance of various human pathogens on the basis of various model organisms The initial sections of the book introduce readers to the mechanisms of microbial pathogenesis host pathogen interactions anti microbial drug resistance and the dynamics of biofilm formation Due to the emergence of various microbial resistant strains it is especially important to understand the prognosis for microbial infections disease progression profiles and mechanisms of resistance to antibiotic therapy in order to develop novel therapeutic strategies In turn the second part of the book presents a comparative analysis of various animal models to help readers understand microbial pathogenesis host pathogen interactions anti microbial drug discovery anti biofilm therapeutics and treatment regimes Given its scope the book represents a valuable asset for microbiologists biotechnologists medical professionals drug development researchers and pharmacologists alike

National Library of Medicine Programs and Services National Library of Medicine (U.S.),
Standards of Mouse Model Phenotyping Martin Hrabé de Angelis, Pierre Chambon, Steve Brown, 2009-09-03 This is the first book in the field of mouse genetics to provide comprehensive and standardized methods for the characterization of laboratory mice The editor is Director of the German Mouse Clinic and member of the Project Committee of the German National Genome Research Network and provides here a brief introduction to the mouse as a model for diseases and functional analysis of genes and proteins Throughout he focuses on the characterization of mouse models using the latest phenotyping methods with the different areas presented in a clearly structured and easily accessible manner

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Table of Contents The Mouse As A Model Organism

1. Understanding the eBook The Mouse As A Model Organism
 - The Rise of Digital Reading The Mouse As A Model Organism
 - Advantages of eBooks Over Traditional Books
2. Identifying The Mouse As A Model Organism
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an The Mouse As A Model Organism
 - User-Friendly Interface
4. Exploring eBook Recommendations from The Mouse As A Model Organism
 - Personalized Recommendations
 - The Mouse As A Model Organism User Reviews and Ratings
 - The Mouse As A Model Organism and Bestseller Lists
5. Accessing The Mouse As A Model Organism Free and Paid eBooks
 - The Mouse As A Model Organism Public Domain eBooks
 - The Mouse As A Model Organism eBook Subscription Services
 - The Mouse As A Model Organism Budget-Friendly Options
6. Navigating The Mouse As A Model Organism eBook Formats

- ePub, PDF, MOBI, and More
- The Mouse As A Model Organism Compatibility with Devices
- The Mouse As A Model Organism Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of The Mouse As A Model Organism
 - Highlighting and Note-Taking The Mouse As A Model Organism
 - Interactive Elements The Mouse As A Model Organism
- 8. Staying Engaged with The Mouse As A Model Organism
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers The Mouse As A Model Organism
- 9. Balancing eBooks and Physical Books The Mouse As A Model Organism
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection The Mouse As A Model Organism
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine The Mouse As A Model Organism
 - Setting Reading Goals The Mouse As A Model Organism
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of The Mouse As A Model Organism
 - Fact-Checking eBook Content of The Mouse As A Model Organism
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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