

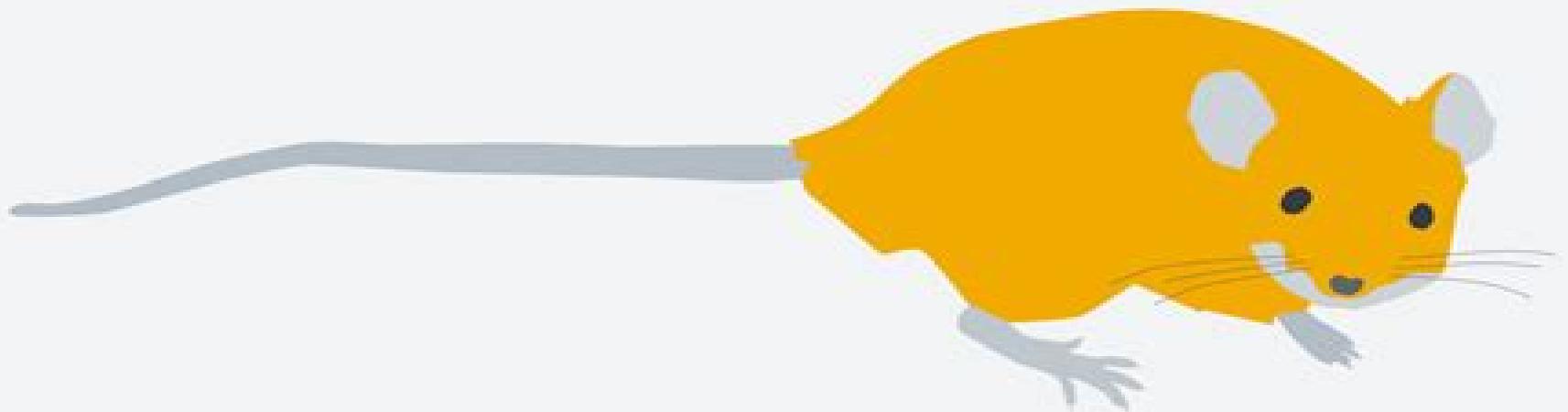
Model organism: Mouse

Mus musculus

Type: Vertebrate animal, rodent

Attractive features: Mouse genes are highly comparable to human genes

Research areas: Obesity and muscle research



Did you know? Mice don't sweat or vomit

The Mouse As A Model Organism

**Charles Watson, George Paxinos, Luis
Puelles**



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 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 *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 **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 *Programs and Services* National Library of Medicine (U.S.),2002 National Library of Medicine Programs and Services National Library of Medicine (U.S.), **Experimental models and model organisms in cardiac electrophysiology: Opportunities and challenges** Ruben Coronel,Igor R. Efimov,Fanny Vaillant,Chris Jopling,Yoram Etzion,Bianca J. J. M. Brundel,Jolanda Van Der

Velden, Flavien Charpentier, 2023-10-05 **Humanized Mouse Models to Study Immune Responses to Human Infectious Organisms** Qingfeng Chen, Jianzhu Chen, Yan Li, 2022-03-28 Rodent model organisms: Therapeutic treatments and drugs interaction with the gut microbiome Eugenia Bezirtzoglou, Julio Plaza-Diaz, Jiajia Song, Guoxiang Xie, Elisavet Stavropoulou, 2025-04-16

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. Therapeutic treatments such as employing folic acid and zinc for hyperuricemia treatment and drugs such as antibiotics have been shown to modify the gut microbiota. At the same time, intestinal microbiota has been confirmed to influence the pharmacokinetic processes of a variety of oral drugs such as cyclosporine. Manipulating the composition of the microbiome is a very attractive way of improving drug efficacy and safety since gut microbiota affects absorption, enterohepatic recycling, volume of distribution, metabolism, and excretion of drugs. Also, complementary alternative traditional treatments such as Electroacupuncture, Tuina, and drugs such as *Gynura segetum* or *Scrophulariae Radix*, *Atractylodes sinensis* has been shown to have important impact and correlation with the gut microbiota which has been demonstrated to modulate many extraintestinal organ diseases. Although a considerable number of studies have focused on these interactions, there is still a lack of research on the mechanisms of correlation of all the above with the dysbiosis of the gut microbiota.

Model Organisms: A Precious Resource for Understanding of the Molecular Mechanisms Underlying Human Physiology and Disease Maria Grazia Giansanti, Roberta Fraschini, 2019-11-20 *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.

Next Steps for Functional Genomics National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Life Sciences, 2020-12-18

One of the holy grails in biology is the ability to predict functional characteristics from an organism's genetic sequence. Despite decades of research, since the first sequencing of an organism in 1995, scientists still do not understand exactly how the information in genes is converted into

an organism's phenotype its physical characteristics Functional genomics attempts to make use of the vast wealth of data from omics screens and projects to describe gene and protein functions and interactions A February 2020 workshop was held to determine research needs to advance the field of functional genomics over the next 10-20 years Speakers and participants discussed goals strategies and technical needs to allow functional genomics to contribute to the advancement of basic knowledge and its applications that would benefit society This publication summarizes the presentations and discussions from the workshop

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

Epstein's Inborn Errors of Development Robert P. Erickson, Anthony Joseph Wynshaw-Boris, 2016 Epstein's Inborn Errors of Development provides essays on pathways of development and thoughtful reviews of dysmorphic syndromes for which the causative gene has been identified It is a top to bottom revision of the landmark text that both revolutionized and accelerated the field of human genetics

Methods and Model Organisms Editor's Pick 2021 Gregg E. Homanics, Stephan C. F. Neuhauss, 2021-07-01

The Mouse Nervous System Charles Watson, George Paxinos, Luis Puelles, 2011-09-22 The Mouse Nervous System provides a comprehensive account of the central nervous system of the mouse The book is aimed at molecular biologists who need a book that introduces them to the anatomy of the mouse brain and spinal cord but also takes them into the relevant details of development and organization of the area they have chosen to study The Mouse Nervous System offers a wealth of new information for experienced anatomists who work on mice The book

serves as a valuable resource for researchers and graduate students in neuroscience Systematic consideration of the anatomy and connections of all regions of the brain and spinal cord by the authors of the most cited rodent brain atlases A major section 12 chapters on functional systems related to motor control sensation and behavioral and emotional states A detailed analysis of gene expression during development of the forebrain by Luis Puelles the leading researcher in this area Full coverage of the role of gene expression during development and the new field of genetic neuroanatomy using site specific recombinases Examples of the use of mouse models in the study of neurological illness 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 **Development of the Rodent as a Model System of Aging** Don C. Gibson,Richard C. Adelman,Caleb Ellicott Finch,1978 **Development of Rodent as a Model System of Aging** National Institute of Child Health and Human Development (U.S.),1972

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