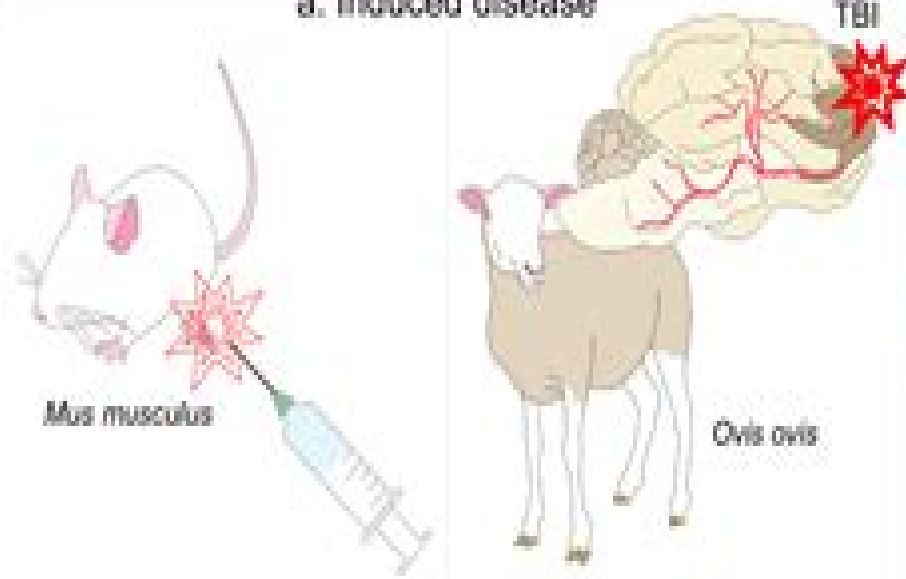


a. Induced disease



Pharmacological induced

Lesion induced

b. Spontaneous changes



Caenorhabditis elegans

c. Genetically modified animals



Danio rerio

Knockout
Knockin

d. Negative model



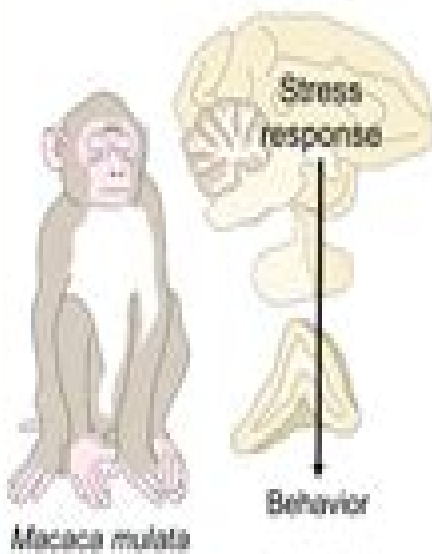
Sus scrofa

SARS-CoV-2

e. Healthy animals



Oryctolagus cuniculus



Macaca mulatta

Stress induced



Rattus norvegicus

Biologically induced

Animal Models For The Study Of Human Disease

**Sara I. Ruiz, Elizabeth E.
Zumbrun, Aysegul Nalca**



Animal Models For The Study Of Human Disease:

Animal Models for the Study of Human Disease P. Michael Conn, 2013-05-29 *Animal Models for the Study of Human Disease* identifies important animal models and assesses the advantages and disadvantages of each model for the study of human disease. The first section addresses how to locate resources, animal alternatives, animal ethics, and related issues, much needed information for researchers across the biological sciences and biomedicine. The next sections of the work offers models for disease oriented topics including cardiac and pulmonary diseases, aging, infectious diseases, obesity, diabetes, neurological diseases, joint diseases, visual disorders, cancer, hypertension, genetic diseases, and diseases of abuse. Organized by disease orientation for ease of searchability. Provides information on locating resources, animal alternatives, and animal ethics. Covers a broad range of animal models used in research for human disease. *Animal Models for the Study of Human Disease* Judith Axler Turner, 2013-05-29 Identifying and selecting the most appropriate animal model is a challenge, but the U.S. Federal Government's National Institutes of Health has supported several efforts to make the job of finding disease models easier. These efforts began with support for databases about specific species and have graduated to support for discipline specific studies and cross species resources. This article tracks LAMHDI, the initiative to Link Animal Models to Human Disease, www.lamhdi.org which brings together data about five species: flies, mice, rats, yeast, and zebrafish, and allows scientists to search across these data principally by disease and gene. This chapter explains how LAMHDI was conceived and where LAMHDI hopes to go in moving into phenotypical as well as genotypical data through networks and visualization.

Animal Models for the Study of Human Disease Daniel Butzke, Barbara Grune, Josephine Kugler, Michael Oelgeschläger, Andrea Seiler, Dana Sittner, Manfred Liebsch, Andreas Luch, 2013-05-29 The first years of the 21st century have seen an unparalleled progress in biomedical sciences. Several dogmata that haunted scientific debate for decades were easily abandoned and there is a fundamental shift away from eminence based toward evidence based assessment of preclinical models, probing their true value in predicting clinical outcomes of human diseases. Likewise, several new approaches, e.g. stem cell based diseases in a dish and organs on a chip, and lab on a chip technologies have revitalized the domain of alternatives to animal experimentation. In our review we portray these and other efforts to bring forth relevant and ethically inoffensive models of human diseases.

Animal Models for the Study of Human Disease P. Michael Conn, 2017-06-20 *Animal Models for the Study of Human Disease* Second Edition provides needed information on model sharing, animal alternatives, animal ethics, and access to databanks of models, bringing together common descriptions of models for busy researchers across biomedical and biological sciences. Offering easily searchable advantages and disadvantages for each animal model and organized by disease topics, this resource aids researchers in finding the best animal model for research in human disease. Organized by disease orientation for ease of searchability. Provides information on locating resources, animal alternatives, and animal ethics. Covers a broad range of animal models used in research for human disease. Contributed by

leading experts across the globe Expanded coverage of diabetes and neurological diseases **Animal Models for the Study of Human Disease** Charles W. Schindler, Steven R. Goldberg, 2013-05-29 Reward behavior represents a subset of conditioning procedures that have been developed by psychologists to study learning in animals In particular rewarded behavior involves an instrumental response that is maintained by a reinforcer The procedures that have been developed cover a broad spectrum of behaviors from simple running in a straight alley to very complex operant schedules of reinforcement that can require multiple responses over long periods of time Many species of animal have also been trained on these procedures Procedures have been developed to study the initial learning process as well as steady state behavior Procedures have also been developed to study memory As such rewarded behavior models can be used to study a wide variety of human diseases and conditions such as Alzheimer s disease obesity drug abuse obsessive compulsive disorder and many others *Animal Models for the Study of Human Disease* Kristine Coleman, James L. Weed, Steven J. Schapiro, 2013-05-29 Environmental enrichment is an integral part of animal care practices Enrichment generally refers to items we provide to the animals to support their behavioral needs It provides a way to functionally simulate the natural environment of captive animals in an effort to increase opportunities for the expression of species specific behaviors and decrease the occurrence of abnormal behaviors Further enrichment can also be a tool in the study of basic science questions such as how environmental factors may affect disease etiology or progression In this chapter we will examine the use of enrichment in both applied and basic science contexts as a welfare tool and as an experimental model *Animal Models for the Study of Human Disease* Sara I. Ruiz, Elizabeth E. Zumbrun, Aysegul Nalca, 2013-05-29 As the threat of exposure to emerging and reemerging viruses within a naive population increases it is vital that the basic mechanisms of pathogenesis and immune response be thoroughly investigated By using animal models in this endeavor the response to viruses can be studied in a more natural context to identify novel drug targets and assess the efficacy and safety of new products This is especially true in the advent of the Food and Drug Administration s animal rule Although no one animal model is able to recapitulate all the aspects of human disease understanding the current limitations allows for a more targeted experimental design Important facets to be considered before an animal study are the route of challenge species of animals biomarkers of disease and a humane endpoint This chapter covers the current animal models for medically important human viruses and demonstrates where the gaps in knowledge exist **Animal Models for the Study of Human Disease** Lucas M. Chaible, Denise Kinoshita, Marcus A. Finzi Corat, Maria L. Zaidan Dagli, 2013-05-29 Genetically modified animals were created about 30 years ago and are considered good models of human diseases In this chapter the types of genetically engineered mice such as transgenic knockout conditional knockout and knockin animals and the general techniques on how to obtain them are described In addition the available genetically modified models for genetic diseases multifactorial and polygenic complex disorders neurodegenerative inflammatory diseases besides cancer models are presented The aim of the chapter is

to help investigators to find out the best models for their studies Animals for Medical Research Brij M. Mitruka, Howard M. Rawnsley, Dharam V. Vadehra, 1982 This text provides valuable information in selecting and using suitable animal species for research so that the experimental data can be meaningful and relevant to human disease It will be useful to those involved in experimental biology and medical research **Animal Models for the Study of Human Disease** Yoichi Gondo, 2013-05-29 To create and establish mutant mice as models for human diseases and traits various forward and reverse genetics tools are currently available Newly developed tools of high throughput identification of novel mutations and site directed mutagenesis or gene targeting in the mouse genome have caused forward and reverse genetics respectively to rapidly expand during the last two decades Worldwide efforts including a variety of international consortiums have been producing many useful mutant mouse strains for functional genomics to elucidate the mechanisms behind diseases and traits Resource centers and public databases have also been built to enhance their utilities The modeling has started from Mendelian monogenic traits and has expanded to more complex quantitative traits as well Multidisciplinary integration among for example molecular cellular and developmental biology genetics genomics medicine statistics and informatics must be orchestrated to fully utilize the resources and knowledge of model mice Animal Models for the Study of Human Disease Robert H. Miller, Sharyl Fyffe-Maricich, Andrew V. Caprariello, 2013-05-29 The most common demyelinating disease of the central nervous system CNS in the young adult population is multiple sclerosis MS MS is characterized by the focal loss of myelin sheaths in the brain and in the spinal cord of patients that is correlated with elevated activity of the immune system directed toward CNS antigens including myelin The progression of MS is highly variable but in many cases it is characterized by a series of relapsing and remitting attacks that slowly increase residual functional deficit Often after several years the disease transitions to a more progressive phenotype Much of what is known about the pathology of MS is derived from a number of animal models The most common animal model for the study of MS is experimental allergic encephalitis EAE which depending upon the host animal can present as relapsing remitting or progressive disease Although EAE has provided mechanistic insights implicating T cell activation in the onset and progression of disease understanding the mechanisms of pathology onset and myelin repair in the CNS require alternative models One emerging hypothesis is that activation of T cells is secondary to pathogenesis of oligodendrocytes and animals models in which targeted loss of oligodendrocytes are beginning to reveal an understanding of the initiation of CNS demyelination Myelin repair is difficult to study in the setting of EAE or oligodendrocyte pathogenesis however toxin models that result in localized demyelination as a consequence of direct injection or oral delivery have provided critical insights into cells of origin timing and molecular mechanisms guiding remyelination Taken together these three distinct model systems provide a strong basis for dissecting cell and molecular mechanism of demyelination as well as characterizing the efficacy of targeted therapeutics **Animal Models for the Study of Human Disease** Jerrold Tannenbaum, 2013-05-29 This chapter presents an overview of ethical

principles that are essential for the proper conduct and the continuing progress of animal research aimed at understanding human disease The chapter identifies fundamental principles of animal research ethics and discusses ethical and empirical foundations of these principles Guidelines are offered for applying these fundamental principles in the design and implementation of animal research projects The chapter highlights several important ethical issues regarding which the biomedical research community has expressed lack of clarity or disagreement and suggests considerations that are relevant for resolution of these issues Recommendations are offered for participation by investigators in ethical discussion of their work and of biomedical animal research generally The general themes of the chapter are that investigators play the primary role in assuring the ethical conduct of biomedical animal research and that a crucial foundation of ethical animal research is sound science

Animal Models for the Study of Human Disease Luc Penicaud,Alexandre Benani,Frédérique Datiche,Xavier Fioramonti,Corinne Leloup,Fabienne Lienard,2013-05-29 The constant increase in the number of obese and diabetic patients which has become a concern of public health is the consequence of dysregulations in energy homeostasis Communications between the brain and peripheral tissues play a critical role in this regulation Studying the brain periphery axis has become a critical field of research This chapter lists a panel of concepts approaches tools and techniques scientists possess to study the brain periphery axis in the regulation of energy homeostasis We focused on techniques used in vivo to stimulate the brain such as the stereotaxy electrical stimulation vascular surgery and optogenetic We described tools and approaches used to study in vivo and in vitro response of neural cells to metabolic stimuli such as electrophysiology cellular imaging microdialysis and c fos mapping Finally approaches used to study peripheral behavioral and metabolic responses such as food intake and body weight monitoring and glucose clamps are presented

Animal Models for the Study of Human Disease Mengqi Chen,Doris Kretzschmar,Giuseppe Verdile,Michael Lardelli,2013-05-29 Alzheimer s disease AD is a major and increasing burden on families communities and national health budgets Despite intensive and extended research there is still widespread debate about its cause s and no effective treatments exist Familial inherited mainly early onset and sporadic mainly late onset forms of the disease exist and it is uncertain to what extent they are related Transgenic mouse models have dominated the investigation of this disease but their validity can be questioned Numerous alternative models exist that can provide valuable information on the molecular and cellular basis of AD In this chapter we review the various invertebrate nonmammalian vertebrate and mammalian models and how these have been used to investigate this disease We examine the strengths and weaknesses of these various model systems Of course animal models never completely reflect the true nature of a human disease but progress in understanding and finding preventative and ameliorative treatments for AD is hindered by the lack of a convincing hypothesis for the cause of this complex condition

Animal Models for the Study of Human Disease Toshiyuki Yamamoto,2013-05-29 Systemic sclerosis scleroderma is a fibrotic condition characterized by immunologic abnormalities vascular injury and increased accumulation of extracellular matrix ECM proteins in the affected

organs Although the etiology of scleroderma has not yet been fully elucidated a growing body of evidence suggests that ECM overproduction by activated fibroblasts results from a complex interaction among endothelial cells immunocytes and fibroblasts involving a number of mediators such as cytokines chemokines growth factors and their receptors For a better understanding of the pathophysiology of scleroderma animal models are important tools They reproduce several histological and biochemical aspects resembling human scleroderma and we can obtain lots of new findings through animal studies On the other hand it must be emphasized that there are no animal models so far exhibiting all the aspects of human scleroderma and studying animal models cannot answer all the problems of human scleroderma This chapter introduces the current concepts of various animal models for scleroderma and discusses their advantages disadvantages contribution to our understanding of the pathogenesis and therapeutic approach for human scleroderma

Animal Models for the Study of Human Disease Heather A. Lawson, 2013-05-29 Metabolic syndrome MetS is a clustering of metabolic complications

representing a pre morbid condition that is a substantial public health burden Animal models provide an opportunity to examine correlations among different metabolic parameters to understand why metabolic complications sometimes cluster and sometimes do not This chapter provides an overview of animal models of MetS that are used to understand etiology and pathophysiology with a focus on methods of identifying and testing candidate genes with the aim of translating results to human studies Genetic epigenetic environmental and gene by environmental methods and results are discussed along with important lessons learned Rodent models are the most frequently used however other animal models including dogs pigs sheep and non human primates have contributed to our understanding of MetS and each are discussed Additionally animal models used to test physiological hypotheses are reviewed along with their potential to illuminate DNA sequence metabolic function relationships to inform therapies

Animal Models for the Study of Human Disease David Feifel, Paul D. Shilling, 2013-05-29 Modeling schizophrenia in animals represents a formidable challenge because the most characteristic symptoms of this disorder auditory hallucinations and delusional beliefs cannot be directly modeled in animals Furthermore limited current understanding of the etiology and pathophysiology underlying the clinical features of this disorder greatly hinders the ability to develop valid models based on those aspects To circumvent these issues investigators have attempted to recreate the leading candidate biochemical neuroanatomical and genetic abnormalities for this disorder in animals using pharmacological developmental neurotoxic genetic engineering and other methods The validity of these animal preparations as animal models for schizophrenia is generally based upon the extent to which they induce measurable behavioral changes that are homologous or analogous to the core clinical features or the information processing endophenotypes presymptom phenotypes that are seen in schizophrenia The utility of any animal model to serve as a screen for novel treatments is considered related to the extent to which the schizophrenia relevant behaviors it exhibits can be ameliorated by drugs with known efficacy in schizophrenia but not by drugs known to be therapeutic for brain disorders other than schizophrenia

Animal Models for the Study of Human Disease Bernhard Aigner, Barbara Kessler, Nikolai Klymiuk, Mayuko

Kurome, Simone Renner, Annegret Wünsch, Eckhard Wolf, 2013-05-29 Basic research of the pathobiology of diseases as well as of therapeutic strategies usually is carried out in rodents as animal models Translational research that transfers novel results from basic research to clinical application often requires analyses in additional nonrodent models and or large animal models that share specific pathophysiological characteristics with the human diseases in question As prerequisites for the generation of appropriate disease models by genetic engineering pigs exhibit suitable reproductive performance traits pig genome analyses resulted in the availability of several resources of genomic data and efficient and precise techniques for the genetic modification of pigs have been established In the recent years genetically engineered pigs were increasingly generated as biomedical research tools for specific human genetic diseases Here we review the current state of the techniques used for the production of genetically engineered pigs as well as the establishment of genetically engineered pigs as models for human diseases

Animal Models for the Study of Human Disease Ross A. Breckenridge, 2013-05-29 Myocardial disease is one of the largest medical burdens facing populations of the developed world Increasing diabetes and obesity in both the developed and developing world suggests that this problem will increase with time So far development of novel therapeutic approaches to myocardial disease has lagged behind medical need One of the key components lacking from this area of medicine is reliable animal systems to model increasingly complex patient populations This chapter takes a disease centred approach to reviewing commonly used animal models of myocardial disease It goes on to discuss possible future approaches to adapting existing models to the changing spectrum of cardiac disease

Animal Models for the Study of Human Disease Victoria E. O'Collins, Geoffrey A. Donnan, Malcolm R. Macleod, David W. Howells, 2013-05-29 A quantitative and qualitative comparison of contemporary neuroprotection and thrombolytic stroke trials and their preclinical animal counterparts has been undertaken with meta analysis DerSimonian and Laird 1986 used to evaluate imaging and histological outcomes Results from 35 clinical trials including 5 532 patients were compared with data from 3 145 pre clinical acute stroke experiments in 45 476 animals While clinical trials tended to be of higher methodological quality and have larger sample sizes than animal experiments 71 patients vs 7 animals per group both were similarly underpowered owing to the greater variability in human stroke average standard deviation of mean in humans 99% v 30% in animals Proportionally animal infarcts were almost four times larger than human infarcts in untreated control groups 27% v 8% of the hemisphere although there was considerable variability in size owing to comorbidities and stroke type Eighty six percent of animal studies and 54% of clinical trials reported smaller infarcts in groups receiving treatment with 41% of clinical trials reporting an improvement in the pre specified hypothesis Animal experiments were not effective in predicting individual trial results nor the level of neuroprotection however there was a fair agreement between the direction of the animal and clinical outcomes when looking at the overall direction of drug outcome As a drug screening tool experimental stroke studies need refinement Rational

frameworks for translational research will help

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