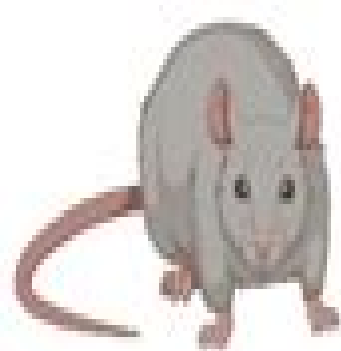




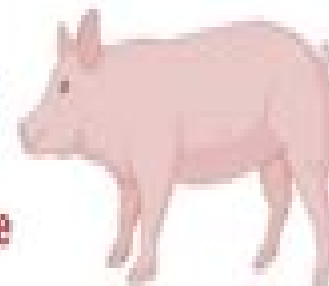
- Easy to breed and handle
- Emerging genetic model
- Express high level of HDL
- Do not express CETP



- Easy to breed and low cost
- Easy to genetically modify
- Only be used for early state atherosclerosis
- Intervention must be water soluble



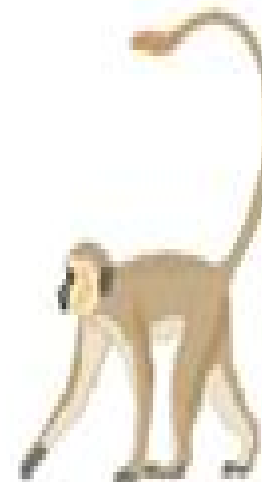
- Display late stage atherosclerosis
- Modest genetic model
- Breeding and handling is expensive
- Limited availability of genetic models



- Similarities with human plaque
- Fibrous cap formation
- Express high level of HDL
- Expensive and difficult to handle



- Express CETP
- Metabolic similarities to human
- Absence of advanced lesions
- Limited availability of genetic models



- High similarity of plaque to human
- Humanoid lesions
- Expensive and highly regulated
- Limited genetic model

Animal Models For The Study Of Human Disease

Marcel A. Müller



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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 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 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 **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** 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

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