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small animal models have been used to study atherogenesis. Although nonhuman primates come closest to modeling human disease, there are significant limitations to the use of these species.

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sciences and biomedicine. The next sections of the work ...

## **Animal Models for the Study of Human Disease ...**

Pigs have also been used, in particular, the Yucatan model for the study of DOCA-induced hypertension (17). Of the different species, rat has been a popular

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model as a result of the availability of different inbred strains and characteristics, including the SHR, Dahl salt-sensitive rats, New Zealand and Milan strains (18).

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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.

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Animal models aid researchers in elucidating underlying mechanisms of disease and allow for therapeutic interventions to be studied in a controlled environment. Selecting the appropriate model is a crucial first step in the design of a well-thought out study, one that can have a large impact on our

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understanding of disease and patient outcomes.

## **Keloids: Animal models and pathologic equivalents to study ...**

The role of the animal model is neatly explained in “The Animal Research War”, by Michael Conn and James Parker (2): If you are going to study a human

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disease you can't, for ethical reasons, perform the initial work in humans; you have to develop a model.

## **The Animal Model - Speaking of Research**

RODENT ANIMAL MODEL RAT(*Rattus norvegicus*) Rats have been useful for research in the following fields- • Study

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of analgesics and anticonvulsants.

- Study of oestrus cycle, mating behavior and lactation.
- Gastric acid secretion
- Hepatotoxicity studies
- Study on mast cells
- Bioassay of various hormones, such as insulin, oxytocin ...

## **Animal models - LinkedIn SlideShare**

A model organism is a non-human

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species that is extensively studied to understand particular biological phenomena, with the expectation that discoveries made in the model organism will provide insight into the workings of other organisms. Model organisms are widely used to research human disease when human experimentation would be unfeasible or unethical. This strategy is

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made possible by the common descent of all living organisms, and the conservation of metabolic and developmental pathways and

## **Model organism - Wikipedia**

- Mice and rats are the most commonly used rodent models for safety testing.
- The problem with rats and mice is that

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tissues of the rat and mouse are not permissive for human adenovirus replication. Therefore, it is not possible to assess the possible adverse effects associated with replication of the vector in non-tumor tissue.

## **Basic Overview of Preclinical Toxicology Animal Models**

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Animal models have been used to address a variety of scientific questions, from basic science to the development and assessment of novel vaccines, or therapies. The use of animals is not only based on the vast commonalities in the biology of most mammals, but also on the fact that human diseases often affect other animal species.

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### **Animal models are essential to biological research: issues ...**

In fact, currently the ferret is the only mammalian model that is equally suitable for the study of both pathogenesis and transmission of influenza viruses. Their use can be limited, however, due to lack of ferret-

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specific immunological reagents and incomplete genome sequencing of this species, as discussed in the vaccine section.

## **Animal Models for Influenza Viruses: Implications for ...**

An animal model is a proxy that scientists find—or create using gene

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editing—that experiences a particular disease the way humans do. Studying animals, though controversial, is highly convenient...

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Cardiovascular disease is one of the leading causes of death worldwide.

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Animal Models – Essential Elements to Address Efficacy Under the Animal Rule.  
... The animal study endpoint is clearly related to the desired benefit in humans, generally

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A variety of animal models of both acute and chronic intestinal inflammation have been developed to investigate disease pathogenesis and n ... Crohn's Disease (CD) is a chronic inflammatory bowel disease (IBD) that can affect any portion of the gastrointestinal tract and can cause significant morbidity.

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## **Mouse models for the study of Crohn's disease**

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comprehensive radiolabel ADME study support across non-clinical species....  
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Ferrets and mice are frequently used as animal models for influenza research. However, ferrets are demanding in

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terms of housing space and handling, whereas mice are not naturally susceptible to infection with human influenza A or B viruses. Therefore, prior adaptation of human viruses is required for their use in mice.

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