

## ANIMAL MODELS IN DIABETES RESEARCH%0A

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[A Comprehensive Review; The Use of Animal Models in ...](#)

It is an animal model, in which part of the pancreas is made diabetic due to almost total loss of insulin-secreting B cells. While the remainder of the gland remains normal. [Animal models in diabetes research | Request PDF](#)

The diabetic animals may be regarded as models of diabetes in man; however, the disease displays a wide diversity of pathophysiologic factors and occasionally does not correspond to diabetes in

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Thus, there is no alternative to appropriate animal models. In *Animal Models in Diabetes Research*, expert researchers explore the current status of the most important models and procedures in order to provide a timely resource in experimental diabetology.

[Animal research and diabetes: Now the truth must be told ...](#)

[Animal research and diabetes: Now the truth must be told Part 2](#) In yesterday's post we described how animal research contributed to the understanding and treatment of diabetes most importantly with the discovery of insulin.

[Diabetes Research with Animal Models - Part 2](#)

The most common animal models for Type 1 and Type 2 diabetes research are rodents mice, rats, and gerbils but cats, pigs, non-human primates, rabbits, and dogs have also been used. These models can either have the condition under study already, or more often be chemically, surgically, genetically, or virally altered to develop it.

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In *Animal Models in Diabetes Research*, expert researchers explore the current status of the most important models and procedures in order to provide a timely resource in experimental diabetology. The first half of the volume serves as a comprehensive overview on our current knowledge of the pathogenesis and pathophysiology of diabetes in animal models through a series of reviews in model

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Animal models of human type 1 diabetes. *Nat Immunol* 10: 129-132 ; Wang J, Takeuchi T, Tanaka S, Kubo SK, Kayo T, Lu D, Takata K, Koizumi A, Izumi T 1999. A mutation in the insulin 2 gene induces diabetes with severe pancreatic  $\beta$ -cell dysfunction in the Mody mouse. *J Clin Invest* 103: 27-37 [PMC free article]

[Diabetes-Resistant NOR Mice Are More Severely](#)

### Affected by ...

1. Introduction. Nonobese Diabetic (NOD) mice are the most frequently preferred animal models in research related to type 1 diabetes (T1D) and other autoimmune conditions [1, 2].

### Animal models for biological screening of anti-diabetic ...

Experimental induction of diabetes mellitus in animal models is essential for the advancement of our knowledge and understanding of the various aspects of its pathogenesis and ultimately finding new therapies and cure.

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One of the oldest methods used to induce diabetes in animal models is pancreatectomy, the removal of the pancreas or removal of cells from the pancreas. Pancreatectomy was observed as early as 1922 to increase blood sugar levels in dogs [35], and by 1968–1971, a technique of complete

### Animal models in type 2 diabetes research: An overview

animal models of type 2 diabetes can be obtained either spontaneously or induced by chemicals or dietary or surgical manipulations and/or by combination thereof. In recent years, large number of

### Animal models of diabetes mellitus.

Animal models of diabetes mellitus. Rees DA(1), Alcolado JC. Author information: (1)Department of Medicine, University of Wales College of Medicine, Cardiff, UK. Animal models have been used extensively in diabetes research. Early studies used pancreatectomised dogs to confirm the central role of the pancreas in glucose homeostasis, culminating in the discovery and purification of insulin

### Low Incidence of Spontaneous Type 1 Diabetes in Non-Obese ...

Studies on spontaneous animal models of T1D, in both the non-obese diabetic (NOD) strain of mice and in bio-breeding (BB) rats, have also supported an etiological role for dietary gluten in T1D.

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Upregulated NLRP3 In ammasome Activation in Patients With Type 2 Diabetes studied in animal models and human adipose tissues (12-15),theexpressionpro ling of in ammasome activation in myeloid cells from type 2 diabetic patients has remained largely unexplored. The NLRP3 in ammasome is the best-characterized in ammasome to date and acts as a molecular platform for IL-1b and IL-