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Name of Journal: *World Journal of Diabetes*

Manuscript NO: 62427

Manuscript Type: THERAPEUTIC AND DIAGNOSTIC GUIDELINES

Feasibility of large experimental animal models in testing novel therapeutic strategies for diabetes

Large preclinical models to test novel therapies for diabetes

#### Abstract

Diabetes is among the top 10 causes of death in adults and caused approximately four million deaths worldwide in 2017. The incidence and prevalence of diabetes is predicted to increase. To alleviate this potentially severe situation, safer and more effective therapeutics are urgently required. Mice have long been the mainstay as preclinical models for basic research on diabetes, although they are not ideally suited for translating basic knowledge into clinical applications. To validate and optimize novel therapeutic for safe application in humans, an appropriate large animal model is

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