## **Glucose tolerance test.v6**

- 1. Maintain mice in a normal light/dark cycle (7:00/19:00) according to the standard protocols of the University of Virginia Animal Care and Use Committee. Perform the test for the mice with age matched or litter mate controls with a minimum of 8 mice per group.
- 2. Remove food by changing to a new cage <u>without</u> food and <u>with</u> water at 8:00 am the day of the experiment (place DO NOT FEED card in the cardholder).
- 3. Start the glucose tolerance test at 2 pm. Weigh the mice and nick the tail with a pair of scissors at the very end to remove roughly 0.25 cm of the tail. Clean the scissors with 70% alcohol twice after each mouse. Measure the baseline blood glucose by using a glucose meter (Ascensia, Bayer). Transfer each mouse to a clearly marked individual cage.
- 4. Inject filter sterilized D-glucose (200 mg/ml, i.p.) at 2 mg/g in normal saline (Keep glucose on a slidewarmer at 37°C before injection). Set up the timer. Start injecting other mice with fixed interval, e.g. 30 sec.
- 5. Measure blood glucose at 30, 60, and 120 minutes by gentle massage of the tail and spotting the blood onto the glucometer strip.
- 6. Make sure that the mice do not have excessive bleeding. Return mice to the housing colony after the test.