Intraperitoneal Glucose Tolerance Testing (IPGTT)

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ABSTRACT

Summary:

This is the standard protocol for most routine glucose tolerance testing. It is performed on awake mice, fasted for 6 hr.

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Protocol status: Working

We use this protocol and it's working
MATERIALS

D-Glucose stock 100 mg/ml in saline (10 µl/g body weight) Contributed by users

1 cc syringe 27 Ga 1/2 needle Bd

Glucometer Contributed by users

Note:

**BD Biosciences (RRID:SCR_013311)**

1. Mice are fasted for six hours by removal to a clean cage without food at the end of their dark (feeding) cycle.
2 Mice are weighed.

3 After 6h of fasting, a fasting glucose level is obtained from venous blood from a small tail clip.

4 1 mg/g body glucose is injected intraperitoneally.

5 Blood glucose values are obtained at 5, 15, 30, 60, and 120 min.

6 If desired, blood may also be obtained for insulin assay (~50 µl) at any time point.