



Penn Medicine

Perelman School of Medicine
University of Pennsylvania Health System

Penn Diabetes Research Center MOUSE PHENOTYPING, PHYSIOLOGY & METABOLISM CORE

Director: Joseph Baur, Ph.D.

Technical Director: Jennifer Rojas, Ph.D.

Glucose Clamp Study Submission Form

Researcher's note: Penn Diabetes Research Center Mouse Phenotyping, Physiology and Metabolism Core users should arrange for the transfer of their mice to the MPPM Core protocol #804474, using the ULAR transfer form. MPPM Core users will be billed for per diem costs, in addition to the fees for clamp studies. Please contact the Technical Director, Jennifer Rojas at Jennifer.Rojas@pennmedicine.upenn.edu. Kindly acknowledge the Penn Diabetes Research Center grant P30-DK19525, and the services of the Mouse Phenotyping, Physiology and Metabolism Core in all publications and presentations.

Lab/PI:	Requestor:
Phone:	Request Date:
Email:	Account Number:
Age of Mice:	Diet:

Please carefully consider your sample size for the glucose clamp studies based on power calculations. For example: A power calculation ($\alpha=0.05$, power 80%) performed with published data from clamp studies in germ-line altered mice (mean difference: 25; SD: 15) suggest an n of 6 will detect a 25% change in hepatic glucose production. Therefore, 8 animals per group will be studied to account for potential catheter failure. We will ensure equal representation of the various groups on individual study days.

** Clamp charges cover surgical materials (jugular catheterization), HPLC-purified tracers and other reagents. Clamp studies are performed in conscious, restrained mice and blood collected via tail vein.

Glucose clamp without tracer: \$1000/ 4 mice (Minimum order 4 mice, GIR).

Glucose clamp with 3H: \$2000/ 4 mice (Minimum order 4 mice, GIR; HGP; Rd).

Glucose clamp with 3H and 14C: \$2500/ 4 mice (Minimum order-4 mice, GIR; HGP; Rd; Glucose uptake in Skeletal Muscle (quadriceps) & white adipose tissue (epididymal). For collection of other tissues and plasma samples for hormonal assay (i.e., insulin), please inquire.

Animal Number	Gender	Mouse ID	Genotype	Charges \$
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				



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12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

Total \$