***In Vivo* Rat Metabolic Services Request Form For Academic Investigators**

**Researcher's note: Penn Diabetes Research Center Rodent Metabolic Phenotyping Core users should arrange for the transfer of their animals to the RMPC protocol #804474, using the ULAR transfer form. RMPC users will be billed for per diem costs. Please contact the Technical Director, Jennifer Rojas at** **Jennifer.Rojas@pennmedicine.upenn.edu****.**

|  |  |
| --- | --- |
| **Lab/PI:** | **Requestor:** |
| **Phone:** | **Request Date:** |
| **Email:** | **Account Number:** |

**Please consider your experimental design before submitting your request—if you require certain tests to be done within a specific time frame, please notify us in advance.**

|  |  |  |  |
| --- | --- | --- | --- |
| Assays for rats | Sample number | Cost per rat | Total |
| **Costs for individual surgical services: Users are only charged for successful surgeries (animals healthy and functional, patent catheters):** |
| Arterial or jugular catheterization |  | $100 |  |
| Arterial and jugular catheterization |  | $200 |  |

**Clamp procedures in the conscious, un-restrained rodent (includes surgery, analysis and hormones):**

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| --- | --- | --- | --- |
| Hyperinsulinemic-euglycemic clamp: *This procedure will allow investigators to assess whole-body insulin action via the glucose infusion rate (GIR).* |  | $450 |  |
| Hyperinsulinemic-euglycemic clamp with [3-3H]: *This procedure will allow investigators to assess whole-body insulin action (GIR) and to distinguish between insulin’s effect on endogenous glucose production (EndoRa) and glucose utilization (Rd).* |  | $600 |  |
| Hyperinsulinemic-euglycemic clamp with [3-3H] and [14C] deoxyglucose: *This procedure will allow investigators to assess whole-body insulin action (GIR) and to distinguish between insulin’s effect on endogenous glucose production (EndoRa), glucose utilization (Rd) and to examine insulin’s effect on specific tissues (Rg; muscle, fat, heart, brain).* |  | $800 |  |
| Hyperglycemic clamp: *This procedure will allow investigators to test the secretory capacity of pancreatic β-cells by monitoring insulin and C-peptide levels.* |  | $450 |  |
| Per Diem Cage Costs |  | $1.55/day |  |

 **Total $**

***Kindly acknowledge the Penn Diabetes Research Center grant P30-DK19525, and the services of the Rodent Metabolic Phenotyping Core in all publications and presentations.***

***Please consider the following guidelines when determining whether co-authorship is warranted for core personnel:***[***https://abrf.org/authorship-guidelines***](https://abrf.org/authorship-guidelines)***.***