Facility Description
We provide investigators specialized and non-invasive metabolic assays that are essential in phenotyping mouse and other animal models with diabetes, its complications, obesity, and related metabolic disorders.

https://medicine.uiowa.edu/diabetes/metabolic-phenotyping-core

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Services
Mitochondrial Bioenergetics: Cells/Tissue
- Seahorse XFe24 Analyzer

Indirect Calorimetry/Metabolic Chambers: Mice and Rats
- Promethion
- CLAMS

Glucose Clamps
Clamps assess whole body insulin action and are considered to be the “gold standard” method to assess insulin sensitivity.

- Hyperinsulinemic Euglycemic Clamp
  - This procedure investigates glucose metabolism and its sensitivity to insulin. The typical standard for clamps in mice is to study in the conscious state using a chronic venous catheter.

- Hyperglycemic Clamp
  - This procedure investigates insulin secretion in response to controlled, standardized hyperglycemia.

Other Services
- Glucose/Insulin Tolerance Tests
- NMR-Body Composition
- Surgical Space Rentals
- Special Animal Housing Rentals

Fraternal Of Eagles Diabetes Research Center, the University of Iowa Carver College of Medicine
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