The Metabolic Physiology Shared Resource (MPSR) (Kevin Niswender, MD, Ph.D., Director) assists investigators wishing to address hypotheses related to diabetes and metabolism. The Rat Metabolic Physiology Core (RMPC) is a section of the MPSR that provides novel techniques to better understand specifically rat models of diabetes and its complications. We are located in rooms 7440 MRBIV (lab) and 7435 MRBIV (office).

The RMPC offers a variety of services including:

- Chronic artery &/or vein cannulation
- Ileal vein cannulation
- Portal vein cannulation
- Insulin clamp
- Pancreatic clamp
- Hyperglycemic Clamp
- Drug Metabolism and Pharmacokinetic Study
- Indirect calorimetry
- Blood pressure measurement
- and more

Surgical procedures

Non-Surgical Procedures

Indirect Calorimetry

Pricing

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Our Goals
• broaden the scope of techniques available to investigators
• standardize key methodologies
• expedite the completion of research

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Publications / Citations

   › Primary publication · [25516552](https://pubmed.ncbi.nlm.nih.gov/25516552/) (PubMed) · [PMC4312835](https://pubmedcentral.nih.gov/PMC4312835/) (PubMed Central) · Added on 2/19/2015

MeSH Terms

- Administration, Intravenous
- Animals
- Blood Glucose
- Catheterization, Peripheral
- Glucagon
- Glucose Clamp Technique
- Hyperglycemia
- Insulin
- Male
- Portal Vein
- Rats
- Rats, Sprague-Dawley