

# Research

## Metabolism in Human Diseases Unit

### Research interests

My research aims to understand the molecular basis of diabetes and its complications, to discover and validate targets for drug development, and to develop animal models for evaluation of therapeutic interventions. My lab uses molecular genetics, cell biology, and physiology techniques to analyze genetically modified animals and cell lines. The current major research projects are:

- Molecular control of regulated exocytosis in diabetes development and treatment
- Molecular and cellular mechanisms of adipogenesis and its link to diabetes and other metabolic diseases
- Post-translational modifications and protein functions in hormone secretion and diabetes development
- Molecular link underlying increased risk of cognitive impairments in people with diabetes and other metabolic diseases

