



COMPLICATIONS | BIOMEDICAL RESEARCH

Project: Inflammation, fibrosis and diabetic kidney disease

Through donor support, Dr. Pedro Geraldes, Assistant Professor of Medicine at the University of Sherbrooke is helping develop new treatments to prevent kidney failure in people with diabetes.

In healthy individuals, blood sugars are controlled by a hormone called insulin, which lowers blood sugar levels. For people with diabetes, they can no longer produce or use enough insulin to control their blood sugars, which can lead to health complications such as liver disease, kidney damage, and even death.

Diabetes is a very common cause of kidney failure. Dr. Geraldes and his team have found that a protein called DUSP4 can help protect mice from diabetic kidney disease. They are exploring how DUSP4 works and its impact on kidney inflammation, cell damage, and kidney disease in diabetes.

Their work will help develop new treatments to prevent and reverse kidney disease in people with diabetes.