



Winner of the 2017 Australian Diabetes Society - Skip Martin Early Career Fellowship awarded to **Dr Chinmay Marathe** from the *University of Adelaide* for his submitted project on **"'Gastric' counter-regulation of hypoglycaemia"**.

All people with type 1 diabetes and $\geq 20\%$ of those with type 2 diabetes are treated with insulin. Hypoglycaemia, however, occurs frequently in insulin-treated diabetes. It represents a major cause of morbidity and mortality, and is regarded a barrier to achieving optimal glycaemic control. The rate of gastric emptying, which exhibits wide inter-individual variation, is an important determinant of glycaemia - when gastric emptying is relatively more rapid, the initial rise in blood glucose after a meal is greater. Conversely, changes in blood glucose profoundly influence gastric emptying: acute hyperglycaemia slows, while hypoglycaemia accelerates, gastric emptying. The latter represents a poorly appreciated, but physiologically important, protective response by increasing the availability of ingested carbohydrate. The proposed studies will provide fundamental and complementary insights into the 'gastric' counter-regulation of hypoglycaemia.