

## Special Issue

# Diabetes, Metabolism and Pregnancy Complications

### Message from the Guest Editor

The prevalence of obesity is increasing at an alarming rate and is now recognized as a major contributor to the development of metabolic disorders such as type 2 and gestational diabetes. Excess energy storage as fat in adipocytes is the hallmark of obesity, with adipocytes undergoing cellular hypertrophy and hyperplasia under conditions of a chronic positive energy balance. The accumulation of large adipocytes within white adipose tissue over time in obesity can progressively result in a hypoxic local environment and tissue fibrosis, ultimately leading to reduced adipose tissue plasticity, dysfunction and cell death. Gestational diabetes (GDM) is characterized by impaired glucose tolerance detected during pregnancy and is associated with maternal and foetal/neonatal complications. Neonates born to GDM pregnancies are at an increased risk of developing diabetes, hypertension and other metabolic disorders later in life, contributing to the already alarming increase in obesity and diabetes. This Special Issue will cover recent advances and research in metabolic disease associated with pregnancy complications.

### Guest Editor

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### Deadline for manuscript submissions

closed (31 December 2023)



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### Message from the Editor-in-Chief

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