

Special Issue

mRNA/miRNAs Network in Diabetes and Its Complications

Message from the Guest Editor

The importance of early diagnosis of diseases has been demonstrated, especially for a complex metabolic disease like diabetes mellitus (DM), for which there is a significant relative risk of complications and for which the identification of high-risk individuals could prevent progression. Early detection of the percentage of insulin-producing cells preceding loss of function would allow for effective therapeutic interventions that could delay or slow down the onset of complications. mRNA and microRNAs (miRNAs, miRs), due to their stability and presence in various body fluids, are different kinds of biomarkers that could be used for both the diagnosis and follow-up of the complications of DM. In summary, the new therapeutic strategies for diabetes significantly advance our ability to treat this disease. There is hope for patients, including immunotherapy, gene therapy, and artificial pancreas systems. Adipose tissue biology and the role of mRNA/miRNA networks that act as bidirectional switches for cell therapy in damaged pancreatic tissue are also addressed.

Guest Editor

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