



## Molecular Research on Type 1 Diabetes and Its Complications

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### Message from the Guest Editors

Type 1 diabetes (T1D) is characterized by autoimmune destruction of insulin-producing beta cells of the pancreatic islets, leading to permanent impairment of glucose metabolism. Although the exact pathogenesis of T1D is unknown, several gene loci involved in the disease outbreak have been identified. The standard of management remains multiple daily insulin injections or continuous subcutaneous insulin infusion in combination with blood glucose monitoring. Despite advances in insulin therapies, patients still suffer acute and chronic micro- and macrovascular diabetic complications, including ketoacidosis, neuropathy, nephropathy, retinopathy, cardiovascular disease, and significant challenges remain unsolved. There are no effective treatments targeting the prevention or delay of T1D by modulating the underlying autoimmune issues.

In this Special Issue of *IJMS*, we will present an up-to-date overview of molecular research on the pathogenesis, identification of biomarkers for preclinical diagnosis, and potential future treatments for T1D and its complications.





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## Message from the Editor-in-Chief

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