

## **ABSTRACT**

Type one diabetes is an autoimmune disease. It is caused by the destruction of  $\beta$  cells of Langerhans' pancreatic islets. Hyperglycemia is a major symptom of  $\beta$  cell destruction. Monocytes play a key role during T cell activation. T cell effect can be protective ( $T_{reg}$ ) or destructive. Monocyte destroys  $\beta$  cells as a macrophage and generates self-tolerance as a dendritic cell. The number of patients with T1D is increasing. In the presented work I aim to summarize current information about pathogenesis of T1D and I try to propose future way of research.