

The role of epigenetic changes in the development of diabetes mellitus

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Abstrak

ABSTRACT

Diabetes mellitus (DM) is one of the most abundant diseases in the 21st century and believed as result of interaction between genes and environment exposure. There is a hypotesis of epigenetic mechanisms, using molecular basis to explain about the mechanism of DM. Because of the enviromental exposure including nutrition status and hyperglycemia state, the risk of DM has started since pre-conception, last until adulthood and will be inhired trans-generational . Mainly, there are 3 epigenetic mechanisms that have role in DM. Epigenetic mechanisms are also have role in the metabolic memory that the DM complications may still developed although the blood glucose level is already normal. The restriction of calory intake may help delaying the development and onset of degerative diseases including DM by stabilizing genome through epigenetic mechanisms.