

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 hypothesis of epigenetic mechanisms, using molecular basis to explain about the mechanism of DM. Because of the environmental exposure including nutrition status and hyperglycemia state, the risk of DM has started since pre-conception, last until adulthood and will be inherited trans-generational. Mainly, there are 3 epigenetic mechanisms that have role in DM. Epigenetic mechanisms also have role in the metabolic memory that the DM complications may still develop although the blood glucose level is already normal. The restriction of caloric intake may help delay the development and onset of degenerative diseases including DM by stabilizing the genome through epigenetic mechanisms.