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Diabetes and gut microbiota



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**Diabetes and gut microbiota** It's becoming increasingly evident that **gut microbiota** is contributing to many human diseases including **diabetes** both type 1 and type 2. Type 1 **diabetes** (T1D) is an autoimmune disease that is caused by the destruction of pancreatic  $\beta$ -cells by the immune system.

Author: Othman A. Baothman, Mazin A. Zamzami, Ibrahim Taher, Jehad Abubaker, Mohamed Abu-Farha

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Any change in the gut microbiota can shift the host metabolism towards increased energy harvest during diabetes and obesity. However, the exact mechanisms behind the dynamics of gut microbes and their impact on host metabolism at the molecular level are yet to be deciphered.

Cited by: 78

Author: Sapna Sharma, Prabhanshu Tripathi

Publish Year: 2019

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**Manuscript Type:** MINIREVIEWS

**Diabetes and gut microbiota**

Xi Y *et al.* Diabetes and gut microbiota

Yue Xi, Peng-Fei Xu

**Abstract**

The prevalence of diabetes is increasing rapidly throughout the world in recent years.

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Several studies have reported **gut microbiome dysbiosis** as a factor in rapid progression of insulin resistance in T2D that accounts for about 90% of all **diabetes** cases worldwide. The **gut microbiome dysbiosis** may reshape intestinal barrier functions and host metabolic and signaling pathways, which are directly or indirectly related to the insulin resistance in T2D.

Cited by: 111

Author: Sapna Sharma, Prabhanshu Tripathi

Publish Year: 2019

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