

Gut microbiota as a target for prevention and treatment of type 2 d



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Overall, many studies have focused on the effects of different natural products, such as vegetables, fruits, dietary fibers, and medicinal plants, on T2DM by regulating gut microbiota and improving microecology ...

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Author: Bang-Yan Li, Xiao-Yu Xu, Ren-You Gan, R...

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A role for the **gut microbiota** in **diabetes prevention and treatment** From an evolutionary perspective, the rapid increase in the prevalence of **type 2 diabetes** worldwide is re-lated to rapid environmental changes that have had a negative impact on risk factors of **diabetes**, such as **dietary** habits and sedentary time. Although the composition of **gut**

Cited by: 204 **Author:** Louise Brunkwall, Marju Orho-Melander**Publish Year:** 2017**The gut microbiome as a target for prevention and ...**<https://link.springer.com/article/10.1007/s00125-017-4278-3> ▾

Apr 22, 2017 · During the last decade, evidence has accumulated to support a role for **gut microbiota** (analysed from faecal samples) in glycaemic control and type 2 diabetes. Mechanistic studies in mice support a causal role for **gut microbiota** in metabolic diseases, ...

Cited by: 204 **Author:** Louise Brunkwall, Marju Orho-Melander**Publish Year:** 2017 **Estimated Reading Time:** 9 mins

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Is the microbiota a target for metabolic syndrome? ▾

What is the role of the gut microbiota in diabetes? ▾

Which is a promising target for managing type 2 diabetes? ▾

Name of Journal: *World Journal of Diabetes*

Manuscript NO: 62702

Manuscript Type: REVIEW

Gut microbiota as a target for prevention and treatment of type 2 diabetes: Mechanisms and dietary natural products

Gut microbiota and diabetes

Abstract

Type 2 DM (T2DM) is among the most remarkable public health concerns globally. Accumulating research evidence documents that alteration of gut microbiota has an indispensable role in the onset and progress of obesity and T2DM. A reduced microbial diversity is linked to insulin-resistance and energy metabolism, especially for the rise of the *Firmicutes/Bacteroidetes* ratio. Changes in metabolites subsequent by the gut dysbacteriosis are linked to the presence of T2DM. Moreover, endotoxin leakage and gut

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Apr 22, 2017 · Given the plethora of biological functions that are regulated by the **gut microbiota**, and that its composition is dependent on adjustable factors (e.g. diet or drugs), new evidence for the potential use of the modifiable capacity of the **gut microbiota** in the development of better **prevention and treatment** options for **type 2 diabetes** are emerging.

Cited by: 215 Author: Louise Brunkwall, Marju Orho-Melander

Publish Year: 2017 Estimated Reading Time: 9 mins

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Overall, many studies have focused on the effects of different natural products, such as vegetables, fruits, dietary fibers, and medicinal plants, on T2DM by regulating gut microbiota and improving microecology in the gut. On the other hand, there are few studies about the effect of natural products on T1DM by modulating gut microbiota.

Cited by: 20 Author: Bang-Yan Li, Xiao-Yu Xu, Ren-You Gan, R...

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How does the microbiota contribute to type 2 diabetes? ▾

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8060771>

Apr 07, 2021 · Mounting evidence suggested that the **gut microbiota** has a significant role in the metabolism and disease status of the host. In particular, **Type 2 Diabetes (T2D)**, which has a complex etiology that includes obesity and chronic low grade inflammation, is modulated by the **gut microbiota**.