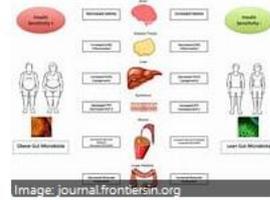


Gut microbiota also may contribute for metabolic disturbances observed in **obesity** by triggering systemic inflammation. Lipopolysaccharides (LPS) from **gut microbiota**, present in cell membrane of those gram-negative bacteria, bind toll-like receptors (mainly Toll-Like receptor 4; TLR4).



Author: Karina Al-Assal, Ana Cristina Martinez, Raquel Susana Torrinhas, Camila Cardinelli, Dan Waitzberg

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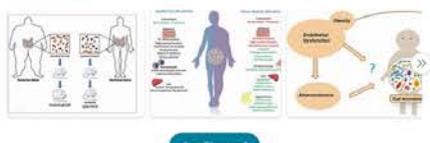
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This microbiota is specific to each individual despite the existence of several bacterial species shared by the majority of adults. The influence of the gut microbiota in human health and disease has been revealed in the recent years. Particularly, the use of germ-free animals and microbiota transplant showed that the gut microbiota may play a causal role in the development of obesity and associated metabolic...

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Cited by: 149 Author: Harry J. Flint
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Mar 01, 2019 - On the other hand, an imbalanced gut microbiota, or dysbiosis, has thus been associated with multiple conditions like inflammatory bowel disease, Clostridium difficile infection, 43 autoimmune disorders, 44 and obesity. 45 Dysbiotic microbiota of obesity was extensively discussed with myriad literatures, and in particular the F/B ratio would be the very first index derived from it, 25 of which...

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Obesity, inflammation, and the gut microbiota

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We transplanted fecal microbiota from adult female twin pairs discordant for obesity into germ-free mice fed low-fat mouse chow, as well as diets representing different levels of saturated fat and fruit and vegetable consumption typical of the U.S. diet. Increased total body and fat mass, as well as obesity-associated metabolic phenotypes, were transmissible with uncultured fecal communities and with their corresponding fecal...

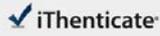
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Gut microbiota in obesity

Liu BN *et al.* Gut microbiota in obesity

Bing-Nan Liu, Xiao-Tong Liu, Zi-Han Liang, Ji-Hui Wang

Abstract

Obesity is a major global health problem determined by heredity and environment, and its incidence is increasing yearly. In recent years, increasing evidence linking obesity to the gut microbiota has been reported. Gut microbiota management has become a new method of obesity treatment. However, the complex interactions among genetics, environment, the gut microbiota and obesity remain poorly understood. **In this review, we summarize the characteristics of the gut microbiota in obesity, the mechanism of**

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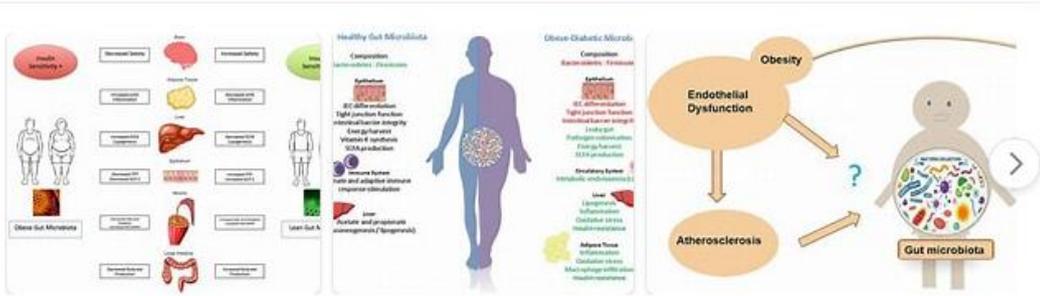
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