

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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Microbial changes in the human gut can be considered a factor involved in obesity development in humans. The modulation of the bacterial strains in the digestive tract can help to reshape the metabolic profile in the human obese host as suggested by several data from animal and human studies.

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Author: Ludovico Abenavoli, Emerico Scarpellini, Car...

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The Gut Microbiome and Obesity

https://pubmed.ncbi.nlm.nih.gov/27255389

The Gut Microbiome and Obesity. The gut microbiome consists of trillions of bacteria which play an important role in human metabolism. Animal and human studies have implicated distortion of the normal microbial balance in obesity and metabolic syndrome. Bacteria causing weight gain are thought to induce the expression of genes related to obesity.


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Author: George Kunnickal John, Gerard E. Mullin

Publish Year: 2016

Images of Gut microbiota in Obesity

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https://pubmed.ncbi.nlm.nih.gov/26459447

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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Author: Philippe Gérard, Philippe Gérard

Publish Year: 2016

Obesity and the gut microbiota - PubMed

https://pubmed.ncbi.nlm.nih.gov/21992951

Obesity and the gut microbiota. Gut microorganisms have the potential to influence weight gain and fat deposition through a variety of mechanisms. One factor is the ability of microorganisms in the large intestine to release energy by fermenting otherwise indigestible components of the diet ("energy harvest"). This energy becomes ...

Cited by: 149

Author: Harry J. Flint

Publish Year: 2011

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Aug 01, 2018. Potential role of gut microbiota on obesity development. Some mechanisms have been proposed to explain the role of gut microbiota in obesity development. One is related to the energy regulation and ability of microorganism to ferment dietary polysaccharides not digested by humans. Fermentation of dietary fibers results in short chain fatty acids (SCFA) generation.


Cited by: 33

Author: Karina Al-Azad, Ana Cristina Martinez, Raq...

Publish Year: 2018


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Corn bran fiber modulates gut microbiota in individuals with overweight and obesity

10 views · 4 months ago · Vimeo - Research Square



Gut microbiome, microbiota, dysbiosis, pain, depression, autism, fibromyalgia, diab...

2K views · Dec 27, 2016 · Vimeo - Nutrition & Functions



How Gut Bacteria May Predict Belly Fat

510 views · Sep 25, 2016 · Time - Alice Park

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Gut microbiota, obesity and metabolic disorders

https://pubmed.ncbi.nlm.nih.gov/28927249

Obesity, diabetes and metabolic disorders represent hugely significant problems concerning the health in Western countries and the study of gut microbiota in metabolic pathologies is part of this framework. Diet affects on intestinal microbial composition and its role in pathogenic mechanisms responsible for both obesity and systemic, hepatic and adipose tissue inflammation, represent at the moment one of ...

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Author: Federico A. Dalisio, A. Giorgio, Malek L.

Publish Year: 2017

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https://www.sciencedirect.com/science/article/pii/S0929664618304376

Mar 01, 2019. On the other hand, an imbalanced gut microbiota, or dysbiosis, has thus been associated with multiple conditions like inflammatory bowel diseases, 42 Clostridium difficile infection, 43 autoimmune disorders, 44 and obesity. 45 Dysbiotic microbiota of obesity was extensively discussed with myriad literature, and in particular the F/B ratio would be the very first index derived from it, 25 of which ...

Cited by: 79

Author: Ching-Hung Tseng, Chun-Ying Wu, Chun-Yi...

Publish Year: 2019

Obesity, inflammation, and the gut microbiota

https://pubmed.ncbi.nlm.nih.gov/23066177

Obesity, inflammation, and the gut microbiota. As the prevalence of obesity and associated disease continues to rise and concerns for the spiralling economic and social costs also escalate, innovative management strategies beyond primary prevention and traditional lifestyle ...

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Author: Amanda J Cox, Nicholas P West, Allan W C...

Publish Year: 2015

Targeting the Gut Microbiota for Remediating Obesity and ...

https://pubmed.ncbi.nlm.nih.gov/33982127

The rate of obesity is rapidly increasing and has become a health and economic burden worldwide. As recent studies have revealed that the gut microbiota is closely linked to obesity, researchers have used various approaches to modulate the gut microbiota to treat the condition. Dietary composition a ...

Gut microbiota from twins discordant for obesity modulate ...

https://pubmed.ncbi.nlm.nih.gov/24009397

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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Author: Vanessa K. Ridaura, Jeremiah J. Faith, Fed...

Publish Year: 2013

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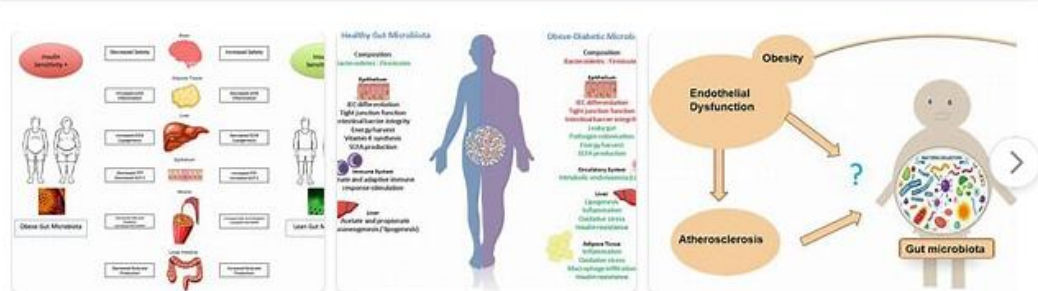
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