

## Obesity Inflammation And The Gut Microbiota

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### [Obesity, inflammation, and the gut microbiota](#)

Modulation of intestinal permeability through interventions that modify the composition of the intestinal microbiota, or activation of the immune system and associated inflammatory responses, could be a key strategy to address obesity and obesity-related disease.

### [Obesity, inflammation, and the gut microbiota - The Lancet ...](#)

The biological basis of disease is one avenue for further exploration in this context. Several key inflammatory markers have been consistently associated with both obesity and risk of adverse outcomes in obesity-associated diseases, which suggests that a persistent, low-grade, inflammatory response is a potentially modifiable risk factor.

### [Obesity, inflammation, and the gut microbiota - ScienceDirect](#)

The interplay between the intestinal microbiota, intestinal permeability, and the immune system depicted as one mechanism linking diet, obesity, and obesity-associated disease.

### [Obesity, inflammation, and the gut microbiota](#)

Obesity, inflammation, and the gut microbiota Introduction. Obesity is now a global health issue, with overnutrition and excess bodyweight having a similar prevalence... Inflammation as a key component of obesity-associated disease. Inflammation has been implicated in efforts to better... Obesity ...

### [Obesity, inflammation, and the gut microbiota - ScienceDirect](#)

Foods that fight inflammation. Olive oil. Green leafy vegetables, such as spinach, kale, and collards. Nuts such as almonds and walnuts. Fatty fish like salmon, mackerel, tuna, and sardines. Fruit such as strawberries, blueberries, cherries, and oranges. Coffee.

### [Obesity and Inflammation: A Vicious Cycle - Does obesity ...](#)

New research suggests a high-fat diet lowers the concentration of an important intestinal immune cell that regulates the microbial population in our gut, and it is through this mechanism that...

### [Study finds key gut immune molecule links obesity, the ...](#)

Obesity-associated inflammation is triggered by lipopolysaccharide (LPS) derived from the gut microbiota. However, the relationship between gut microbiota, LPS, inflammation, and OA remain unclear. Objective: To evaluate the associations between gut microbiota, systemic LPS levels, serum and local inflammatory profiles, and joint damage in a high fat/high sucrose diet induced obese rat model.

### [Relationship between inflammation, the gut microbiota, and ...](#)

One of the hallmarks of obesity and obesity-related pathologies is the occurrence of chronic low-grade inflammation . Lipopolysaccharides (LPS), also called endotoxins, which are derived from the outer cell membrane of Gram-negative bacteria, have been thought to initiate the inflammation-related processes associated with the onset of obesity and insulin resistance (Fig. 3 ) [ 23 ].

### [Impact of the gut microbiota on inflammation, obesity, and ...](#)

Oct. 2, 2008 -- Curbing inflammation in a key part of the brain may help keep down weight, a new study shows. Obesity is known to increase inflammation throughout the body. The new study --...

### [Breaking the Obesity-Inflammation Cycle](#)

Summary: Conditions related to obesity, including inflammation and leaky gut, leave the lungs of obese patients more susceptible to COVID-19 and may explain why they are more likely to die from the...

### [Factors inherent to obesity could increase vulnerability ...](#)

Immune cells of both the innate and adaptive immune systems infiltrate the adipose tissue (AT) and during obesity induce inflammatory responses associated with metabolic switches and changes in phenotypes and function of immune cell subsets.

### [Frontiers | Aging, Obesity, and Inflammatory Age-Related ...](#)

Sugar: Refined sugar is an ingredient in many of the same products as starch, and it is exceptionally damaging to the gut microbiome because it increases the permeability of the gut and leads to obesity and insulin resistance.

### [Anti-Inflammatory Foods: The Complete Guide ... - The Good Gut](#)

Obesity has been linked to impaired function of the intestinal lining, which can allow bacteria and toxic bacterial products to move from the gut into the bloodstream and then into organs. This condition, often referred to as leaky gut, may result in systemic inflammation, insulin resistance, and other effects on the body.

### [Enzyme may play key role in obesity-related leaky gut ...](#)

Obesity is frequently observed in patients with inflammatory bowel diseases (IBD), similar to the general population. Obesity may exert a negative effect on the course of IBD as well as reduce the response to treatment. Moreover, it may also be an additional risk factor for vein thromboembolism during the flare.

### [What Was First, Obesity or Inflammatory Bowel Disease ...](#)

Intestinal microbial composition and function can be altered by a western diet. Alterations in gut microbiome result in host pathologies, including obesity, inflammation, insulin resistance and type 2 diabetes. Metabolic phenotypes like obesity are transmissible via microbiota transfer.

### [Adipose tissue derived bacteria are associated with ... - Gut](#)

¶A high-fat diet altered the gut microbiota composition in an unhealthy direction by increasing the abundance of pro-inflammatory genera, while reducing those considered health-promoting,¶ the team states. ¶These obesity-induced changes were antagonized by both calanus oil and exenatide.¶ High Lactobacillus levels

### [Calanus oil may halt obesity-related gut microbiota changes](#)

Obesity is an inflammatory disease that is approaching pandemic levels, affecting nearly 30% of the world's total population. Obesity increases the risk of diabetes, cardiovascular disorders, and cancer, consequentially impacting the quality of life and imposing a serious socioeconomic burden.