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Gut microbiota and inflammatory bowel disease: The current status and perspectives

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Abstract

Inflammatory bowel disease (IBD) is a chronic immune-mediated disease, affecting the gastrointestinal tract. It is argued that the environment, microbiome and immune-mediated factors interact in a genetically susceptible host, which triggers IBD. Recently, there has been increased interest in the development, progression, and treatment of IBD as a potential result of the microbiome. Researchers have proved that some factors can provide support to the curative effect of the microbiome in patients with IBD. As a

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1	Crossref 204 words Kerri L. Glassner, Bincy P. Abraham, Eamonn M.M. Quigle ... "The microbiome and inflammatory bowel disease", Journal	4%
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Studies of the roles of microbial communities in the development of **inflammatory bowel disease (IBD)** have reached an important milestone. A decade of genome-wide association studies and other genetic analyses have linked IBD with loci that implicate an aberrant immune response to the intestinal **microbiota**.

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Jan 01, 2020 - **Inflammatory bowel disease (IBD)** is a chronic immune-mediated disease affecting the gastrointestinal tract. The disease is thought to develop as a result of interactions between environmental, microbial, and immune-mediated factors in a genetically susceptible host (). Several strands of evidence suggest a role for the microbiome in the pathogenesis of IBD ().

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Methods: A Medline search including items 'intestinal microbiota/microbiome', 'inflammatory bowel disease', 'ulcerative colitis', 'Crohn's disease', 'faecal microbial transplantation', 'dietary manipulation' was performed. Results: Disease remission and relapse are associated with microbial changes in both mucosal and luminal samples. In ...

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Introduction. Investigation of the bacterial component of the human microbiome has gained a lot of interest in the past few years. One of the main reasons for this interest is that the human gut microbiota has been implicated in an increasing number of disease conditions. 1 – 3 The gut microbiota is highly diverse and stable in adult life, but there are a number of life stages and conditions ...

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What is inflammatory bowel disease (IBD)?



How does gut microbiota affect the immune system?



How does dysbiosis affect the microbiota?



Is microbiota an infectious disease?



Inflammatory Bowel Disease

Medical Condition

A group of inflammatory conditions of the colon and small intestine



A group of intestinal disorders that cause inflammation of the digestive tract.

- 🏠 Common (More than 200,000 cases per year in US)
- 🧪 Often requires lab test or imaging
- 🔧 Treatments can help manage condition, no known cure
- 🕒 Can be lifelong

IBD is said to be the result of autoimmune reactions. Inflammatory bowel disease (IBD) presents as Crohn's disease or ulcerative colitis. It may be characterized by diarrhea, abdominal pain and cramping, tiredness, and weight loss. Anti-inflammatory drugs play an important role in the treatment. Surgery is sometimes performed.

Symptoms

Symptoms may vary from mild to severe and include:

- Diarrhea
- Fever
- Fatigue
- Blood in stool
- Bleeding ulcers
- Stomach pain



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Publish Year: 2018

[Frontiers | Gut Microbiota and Metabolic Specificity in ...](https://www.frontiersin.org/articles/10.3389/fmed.2020.606298)

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Background: **Inflammatory bowel disease** (IBD) represents multifactorial chronic **inflammatory** conditions in the gastrointestinal tract and includes Crohn's **disease** (CD) and ulcerative colitis (UC)...

[The microbiome in inflammatory bowel diseases: from ...](https://pubmed.ncbi.nlm.nih.gov/32601832)

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Inflammatory bowel disease (IBD) has become a global disease with **accelerating incidence worldwide in the 21st century** while its accurate etiology remains unclear. In the past decade, gut microbiota dysbiosi...

Cited by: 2 **Author:** Sheng Liu, Wenjing Zhao, Ping Lan, Xiangy...

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Symptoms

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- Diarrhea
- Fever
- Fatigue
- Blood in stool
- Bleeding ulcers
- Stomach pain
- Bloating and cramping
- Reduced appetite
- Unintended weight loss
- Anemia
- Flatulence

Treatments

Treatment of inflammatory bowel disease focuses on reducing inflammation that causes the symptoms which can eventually lead to