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**Regulation of the intestinal microbiota: An emerging therapeutic strategy
for inflammatory bowel disease**

Yue B *et al.* Intestinal microbiota regulation in IBD

Bei Yue, Zhi-Lun Yu, Cheng Lv, Xiao-Long Geng, Zheng-Tao Wang, Wei Dou

Abstract

The rapid development of metagenomics, metabolomics, and metatranscriptomics provides novel insights into the intestinal microbiota

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Nov 25, 2014 · **Inflammatory bowel disease (IBD)** is a chronic and relapsing inflammatory disorder of the gut. Although the precise cause of IBD remains unknown, the most accepted hypothesis of IBD pathogenesis to date is that an aberrant immune response against the **gut microbiota** is triggered by environmental factors in a genetically susceptible host.

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<https://www.ncbi.nlm.nih.gov/pubmed/31586663>

dysregulation of immune responses combined with genetic and environmental factors have been implicated in the pathogenesis of inflammatory bowel diseases (IBD). To this end, novel therapeutic options based on the gut microbiota modulation have been an area of extensive research interest. In this review we present the recent

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Feb 22, 2019 · **Genetical studies** support the involvement of **intestinal barrier** as several susceptibility



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Aug 31, 2015 · The **intestinal microbiota** has important metabolic and host-protective functions. Conversely to these beneficial functions, the intestinal microbiota is thought to play a central role in the etiopathogenesis of **inflammatory bowel disease** (IBD; **Crohn's disease** and **ulcerative colitis**), a **chronic inflammation** of the gut mucosa.

Cited by: 82

Author: Christoph Becker, Markus F. Neurath, Ste...

Publish Year: 2015

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Feb 22, 2019 · **Genetical studies** support the involvement of **intestinal barrier** as several susceptibility genes for **IBD encode proteins** with key functions in gut barrier and homeostasis. **IBD patients** are





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.