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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

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Abstract

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

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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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<https://academic.oup.com/ilarjournal/article/56/2/192/651652>

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.

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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.