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**Name of Journal:** *World Journal of Gastrointestinal Pathophysiology*

**Manuscript NO:** 61638

**Manuscript Type:** MINIREVIEWS

**Neuroimmunomodulation by gut bacteria: Focus on inflammatory bowel diseases**

Aggarwal S *et al.* Neuroimmunomodulation by gut bacteria in IBD

Surbhi Aggarwal, Raju Ranjha, Jaishree Paul

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## (PDF) Neuroimmunomodulation in the Gut: Focus on ...

<https://www.researchgate.net/publication/304813760...>

Neuroimmunomodulation in the Gut: Focus on Inflammatory Bowel Disease. ... including inflammatory bowel disease (IBD). ... that the exposure of the *intestina* l interstitium to *bacteria* l.

## Neuroimmunomodulation in the Gut: Focus on Inflammatory ...

<https://www.hindawi.com/journals/mi/2016/1363818> ▼

Neuroimmunomodulation in the Gut: Focus on Inflammatory Bowel Disease Claudio Bernardazzi , 1 Beatriz Pêgo , 1 and Heitor Siffert P. de Souza 1 , 2 1 Serviço de Gastroenterologia & Laboratório Multidisciplinar de Pesquisa, Hospital Universitário, Universidade Federal do Rio de Janeiro, 21941-913 Rio de Janeiro, RJ, Brazil

Cited by: 8

Author: Claudio Bernardazzi, Beatriz Pêgo, Heitor...

Publish Year: 2016

## Inflammatory Bowel Disease

<https://www.ncbi.nlm.nih.gov/pmc/articles/pmid/19923578>

Nov 19, 2009 - The importance of responses to **intestinal bacteria** in **inflammatory bowel disease** is highlighted by the association between **Crohn's disease** and the **NOD2** gene 77 (Table 1), which encodes an intracellular sensor of peptidoglycan, a component in **bacterial cell walls**. 78,79 The association includes three **NOD2 polymorphisms** that change the amino acids in **NOD2**, each impairing ...

## Inflammatory Bowel Disease | NEJM

<https://www.nejm.org/doi/10.1056/NEJMra0804647>

**NOD2** and Crohn's Disease. The importance of responses to **intestinal bacteria** in **inflammatory bowel disease** is highlighted by the association between Crohn's disease and the **NOD2** gene 77 (), which ...

## Gut microbiota reveals whether drug therapies work in ...

<https://www.sciencedaily.com/releases/2021/01/210126105903.htm> ▼

Jan 26, 2021 - University of Helsinki. (2021, January 26). Gut microbiota reveals whether drug therapies work in **inflammatory bowel diseases**. ScienceDaily. Retrieved February 4, 2021 from [www.sciencedaily.com](http://www.sciencedaily.com) ...

## Risk of Inflammatory Bowel Disease with Oral



Neuroimmunomodulation by gut bacteria: Focus on inflammatory b



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## Neuroimmunomodulation in the Gut: Focus on Inflammatory ...

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Neuroimmunomodulation in the Gut: Focus on Inflammatory Bowel Disease Claudio Bernardazzi ,  
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Cited by: 8

Author: Claudio Bernardazzi, Beatriz Pêgo, Heitor...

Publish Year: 2016

## Short Chain Fatty Acids (SCFAs)-Mediated Gut Epithelial ...

<https://pubmed.ncbi.nlm.nih.gov/30915065>

Ulcerative colitis (UC) and Crohn's disease (CD), collectively known as **Inflammatory Bowel Diseases** (IBD), are caused by a complex interplay between genetic, immunologic, microbial and environmental...

Cited by: 344

Author: Daniela Parada Venegas, Marjorie K De I...

Publish Year: 2019

## Microbiota metabolite short chain fatty acids, GPCR, and ...

<https://pubmed.ncbi.nlm.nih.gov/27448578>

Gut microbiota has been well recognized in regulation of **intestinal** homeostasis and pathogenesis of **inflammatory bowel** diseases. However, the mechanisms involved are still not completely understood...

Cited by: 275

Author: Mingming Sun, Mingming Sun, Wei Wu, ...

## Inflammatory Bowel Disease

Medical Condition

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:

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## Neuroimmunomodulation in the Gut: Focus on Inflammatory ...

<https://www.hindawi.com/journals/mi/2016/1363818> ▾

**Intestinal** immunity is finely regulated by several concomitant and overlapping mechanisms, in order to efficiently sense external stimuli and mount an adequate response of either tolerance or defense. In this context, a complex interplay between immune and nonimmune cells is responsible for the maintenance of normal homeostasis. However, in certain conditions, the disruption of such an ...

**Cited by:** 8

**Author:** Claudio Bernardazzi, Beatriz Pêgo, Heitor S...

**Publish Year:** 2016

## Role of gut viruses in inflammatory bowel disease is focus ...

<https://medicine.wustl.edu/news/role-of-gut...> ▾

Oct 13, 2020 - Getty Images. Researchers at Washington University School of Medicine in St. Louis have received an \$8.5 million grant to study the role of gut viruses in inflammatory bowel disease. Tools developed in the course of the project could accelerate research into other roles of the virome in health and disease. The communities of bacteria that live in our digestive tracts **help digest food and produce vitamins, protect against pathogens, and promote the healthy functioning** ...

## Phages and Their Role in Gastrointestinal Disease: Focus ...

<https://pubmed.ncbi.nlm.nih.gov/32325706>

Inflammatory bowel diseases (IBDs) are a group of chronic autoinflammatory diseases including Crohn's disease and ulcerative colitis. Although the molecular mechanisms governing the pathogenesis of **gastrointestinal** inflammation are not completely clear, the main factors are presumed to be genetic pr .... Phages and Their Role in **Gastrointestinal** Disease: Focus on Inflammatory Bowel Disease.

**Cited by:** 6

**Author:** Martin Maronek, Rene Link, Lubos Ambro, ...

**Publish Year:** 2020

## Multi-omics of the gut microbial ecosystem in inflammatory ...

<https://pubmed.ncbi.nlm.nih.gov/31142855>

**Inflammatory bowel diseases**, which include Crohn's **disease** and ulcerative colitis, affect several million individuals worldwide. Crohn's **disease** and ulcerative colitis are complex **diseases** that are heterogeneous at the clinical, immunological, molecular, genetic, and microbial levels. Individual con ...

**Cited by:** 430

**Author:** Jason Lloyd-Price, Jason Lloyd-Price, Cesa...

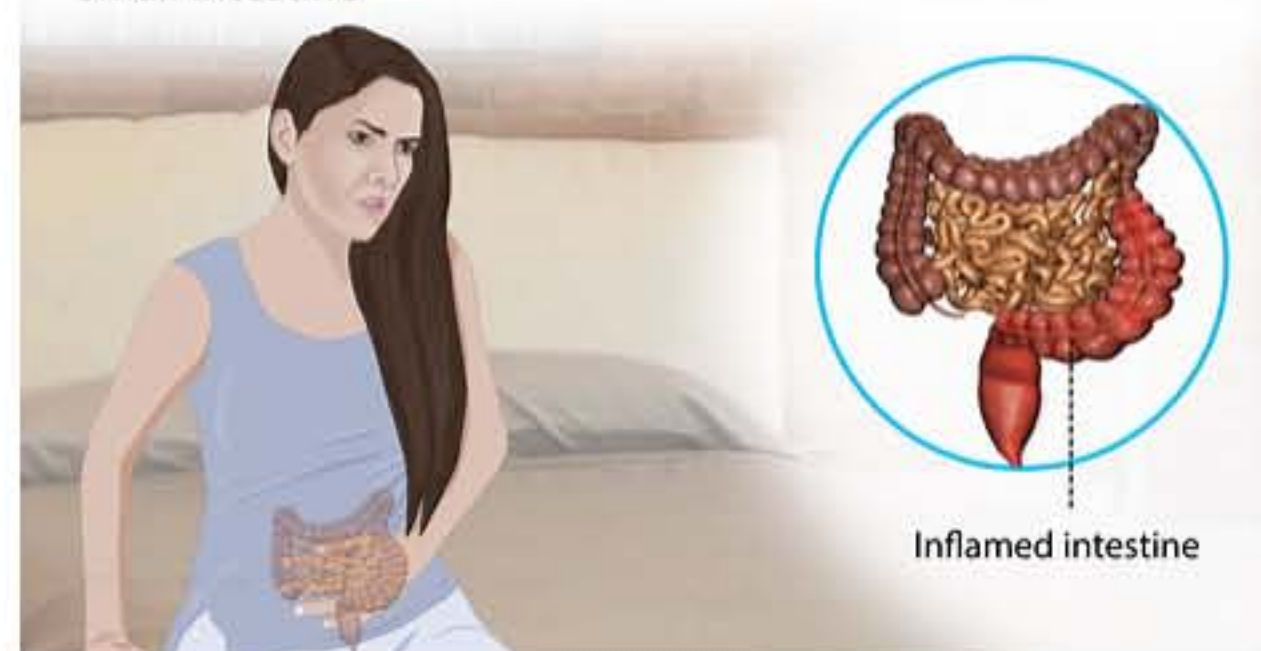
**Publish Year:** 2019

## The microbiome and inflammatory bowel 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