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Roles of G-Protein-Coupled Receptors in Inflammatory Bowel



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Author: Nathalie Vergnolle, Laurie Cellars, Andrea...

Publish Year: 2004

Role of G Protein-coupled Orphan Receptors in Intestinal ...

https://www.researchgate.net/publication/269183212_Role_of_G_Protein-coupled_Orphan...

Aim: To investigate the levels of G protein-coupled receptor 55 (GPR55) expression in colonic tissue of inflammatory bowel disease (IBD) patients and healthy controls, and its potential ...

Inflammatory Bowel Disease G-Prote in Coupled Receptors ...

https://www.researchgate.net/publication/221922196_Inflammatory_Bowel_Disease_G-Prote...

PDF | On Jan 13, 2012, Nathalie Taquet and others published Inflammatory Bowel Disease G-Prote in Coupled Receptors (GPCRs) Expression Profiling with Microfluidic Cards

[PDF] Tu1689 Overexpression of G-Protein-Coupled Receptors ...

[https://www.gastrojournal.org/article/S0016-5085\(13\)63055-3/pdf](https://www.gastrojournal.org/article/S0016-5085(13)63055-3/pdf)

Crohn's disease (CD). G-protein-coupled receptor 40 (GPR40) and 120 (GPR120) are FFA receptors (FFARs) that are activated by binding to medium-chain or long-chain FFAs and then induce the secretion of incretins such as glucagon-like peptide-1 (GLP-1) and glucagon-like peptide-2 (GLP-2) in the gastrointestinal tract.

G protein-coupled estrogen receptor mediates anti ...

<https://www.nature.com/articles/s41598-019-43233-3>

However, the significance of G protein-coupled estrogen receptor (GPER) on Crohn's disease (CD), one of the inflammatory bowel disease (IBD) types, is still elusive.

Author: Damian Jacenik

Adenosine receptors: therapeutic aspects for inflammatory ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2568887>

Adenosine is a key endogenous molecule that regulates tissue function by activating four G-protein-

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

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 52101

Manuscript Type: REVIEW

Roles of G protein-coupled receptors in inflammatory bowel disease

Zeng Z *et al.* Roles of GPCRs in IBD

Zhen Zeng, Arjudeb Mukherjee, Adwin Pidiyath Varghese, Xiao-Li Yang, Sha Chen, Hu Zhang

Abstract

Inflammatory bowel disease (IBD) is a complex disease with multiple pathogenic factors. Although the pathogenesis of IBD is still unclear, a current hypothesis suggests that genetic susceptibility, environmental factors, a dysfunctional immune system, the microbiome, and the interactions of these factors substantially contribute to the occurrence and development of IBD. Although existing and

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Dec 01, 2014 · Role of G Protein-coupled Orphan Receptors in Intestinal Inflammation: Novel Targets in Inflammatory Bowel Diseases Andrzej Wasilewski, MSc Department of Biochemistry, Faculty of Medicine, Medical University of Lodz, Lodz, Poland

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Author: Andrzej Wasilewski, Martin Storr, Marta Z...

Publish Year: 2015

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Publish Year: 2004

Role of the G Protein-coupled Receptor Lgr4 in ...

www.jbc.org/content/288/13/8804.full

Mar 29, 2013 · Role of the G Protein-coupled Receptor Lgr4 in Inflammatory Bowel Syndrome♦ Lgr4 Gene Deficiency Increases Susceptibility and Severity of Dextran Sodium Sulfate-induced Inflammatory Bowel Disease in Mice

Frontiers | Implication of G Protein-Coupled Receptor 43 ...

<https://www.frontiersin.org/articles/10.3389/fimmu.2018.01434> ▾

Various recent studies have demonstrated the role of GPR43 in intestinal inflammatory diseases, such as inflammatory bowel diseases. These SCFAs-mediated regulations of intestinal health are associated with neutrophil chemotaxis, T cell differentiation, activation, and subsequent cytokines production. ... G-protein-coupled receptor 43 (GPR43 ...

Cited by: 4

Author: Guan Yang, Siyuan Chen, Baichuan Den...

Publish Year: 2018

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https://www.researchgate.net/publication/269183212_Role_of_G_Protein-coupled_Orphan...

Background & Aims: G protein-coupled receptor 30 (GPR30) is a recently de-orphanized estrogen



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