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Isoflavones and inflammatory bowel disease

Wu ZY *et al.* Isoflavones and IBD

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Abstract

Isoflavones constitute a class of plant hormones, and the major source of human intake is from soybeans. Inflammatory bowel disease (IBD) is a chronic recurrent inflammatory disease, which seriously affects the quality of life for patients. To date, many studies have reported that isoflavones have effects on IBD. Isoflavones have many activities: regulating the inflammatory signal pathways, intestinal barrier functions, and gut flora. They can also act through estrogen receptors, as they have a similar structure to estrogen. This review summarizes the relationship between isoflavones and IBD.

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1	Crossref 17 words King, Roger. "Digestion, Absorption and Metabolism of Isoflavones", <i>Phytoestrogens and Health</i> , 2002.	1%
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Isoflavones and inflammatory bowel disease



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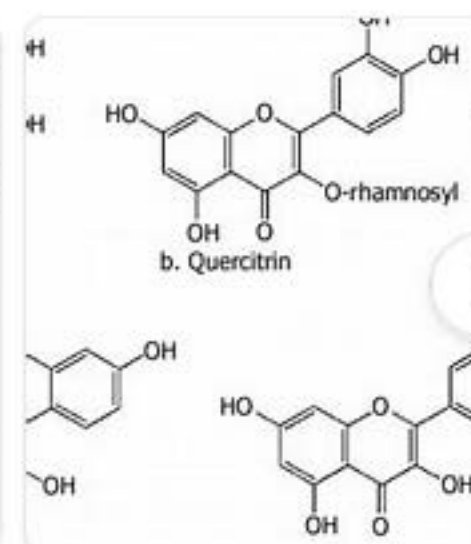
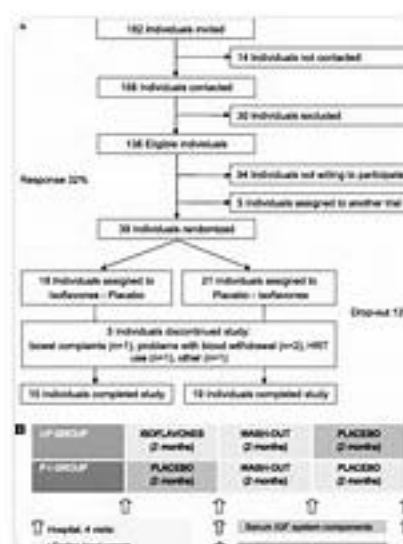
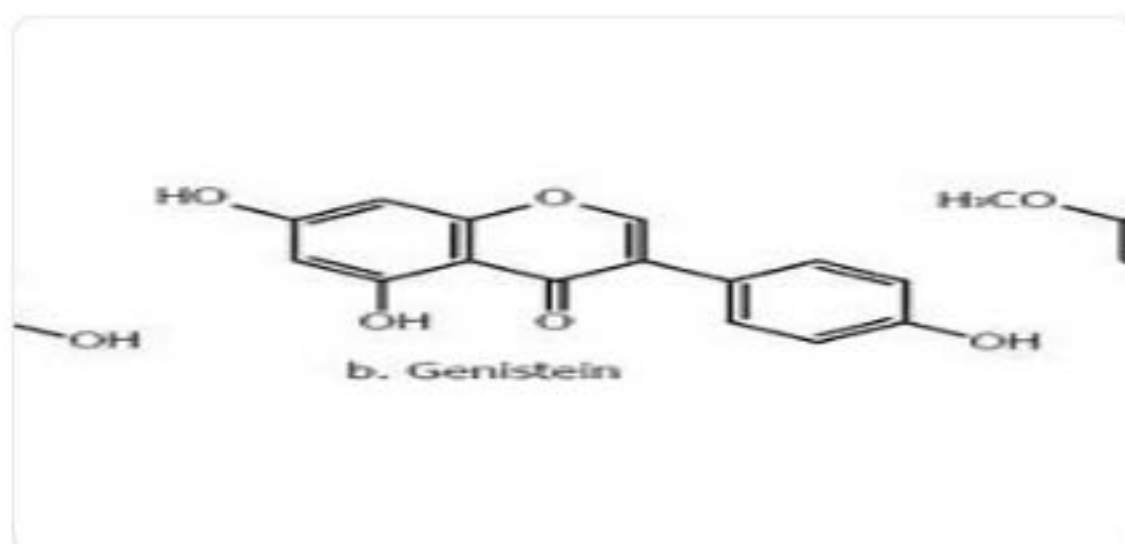
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Inflammatory bowel disease (IBD) - Symptoms and causes ...

<https://www.mayoclinic.org/diseases-conditions/inflammatory-bowel-disease/symptoms...> ▾

Overview

Symptoms

Causes

Risk Factors

Complications



Inflammatory bowel disease (IBD) is an umbrella term used to describe disorders that involve chronic inflammation of your digestive tract. Types of IBD include: 1. Ulcerative colitis. This condition causes long-lasting inflammation and sores (ulcers) in the innermost lining of your large intestine (colon) and rectum. 2. Crohn's disease. This type of IBD is characterized by inflammation of the lining of your digestive tract, which often spreads d...

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5550784>

Aug 07, 2017 · Among other nutrients, **isoflavones** are indicated as characterized by potential influence on **inflammatory bowel disease**, but the conclusions seem to be contradictory, as the effects of **isoflavones** on development and course of the **disease** may differ.

Cited by: 6

Author: Dominika Głabska, Dominika Guzek, D...

Publish Year: 2017

[Isoflavones: Anti-Inflammatory Benefit and Possible Caveats](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4924202>

Jun 10, 2016 · **Inflammation**, a biological response of body tissues to harmful stimuli, is also known to be involved in a host of **diseases**, such as obesity, atherosclerosis, **rheumatoid arthritis**, and even cancer. Isoflavones are a class of flavonoids that exhibit antioxidant, anticancer, antimicrobial, and anti-inflammatory properties.

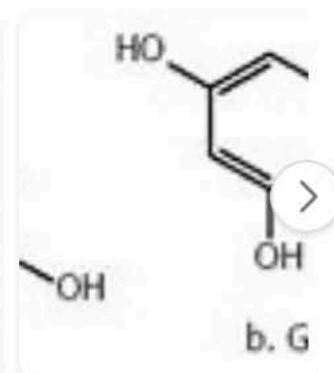
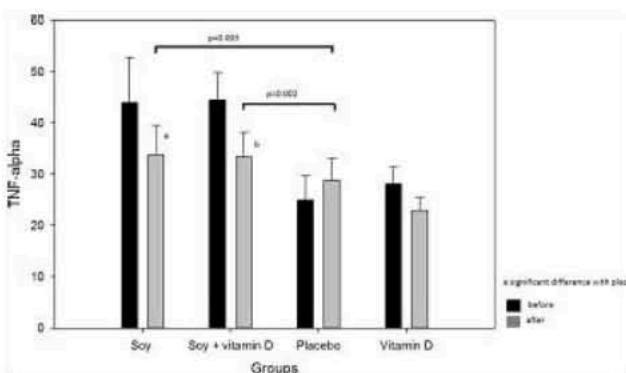
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Author: Jie Yu, Xiaojuan Bi, Bing Yu, Daiwen C...

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Inflammatory Bowel Disease (IBD): Symptoms, Causes, Treatment

<https://www.webmd.com/ibd-crohns-disease/inflammatory-bowel-syndrome>

Your doctor makes the diagnosis of inflammatory bowel disease based on your symptoms and various exams and tests: Stool exam. Complete blood count. Other blood tests. **Barium X-ray**. Other radiologic tests. **Sigmoidoscopy**. **Colonoscopy**. Upper endoscopy. Capsule endoscopy.

Flavonoids in Inflammatory Bowel Disease: A Review

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4848680>

Apr 09, 2016 · Inflammatory bowel disease (IBD) mainly comprises two major conditions, **Crohn's disease** (CD) and **ulcerative colitis** (UC), characterized by **chronic gastrointestinal inflammation** with alternating periods of relapses and remissions.

Cited by: 100

Author: Teresa Vezza, Alba Rodríguez-Nogales, ...

Publish Year: 2016

Isoflavones inhibit poly(I:C)-induced serum, brain, and ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4236420>

Oct 31, 2014 · **Isoflavones inhibit poly(I:C)-induced serum, brain, and skin inflammatory** mediators - relevance to chronic fatigue syndrome

Cited by: 12

Author: Magdalini Vasiadi, Jennifer Newman, The...

Publish Year: 2014

Soy isoflavones and cholecalciferol reduce inflammation ...

<https://www.ncbi.nlm.nih.gov/pubmed/31677711>

Soy isoflavones and cholecalciferol reduce **inflammation**, and gut permeability, without any effect on antioxidant capacity in **irritable bowel syndrome**: A randomized clinical trial. Jalili M(1), Vahedi H(2), Poustchi H(3), Hekmatdoost A(4).

Author: Mahsa Jalili, Homayoon Vahedi, Hoss... Publish Year: 2019





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.