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Natural products that target macrophages in treating non-alcoholic steatohepatitis

Li CL *et al.* Natural products that target macrophages in treating NASH

Chun-Lin Li, Wen-Jun Zhou, Guang Ji, Li Zhang

Abstract

Nonalcoholic steatohepatitis (NASH) is the progressive subtype of non-alcoholic fatty liver disease and potentiates risks for both hepatic and metabolic diseases. Although the pathophysiology of NASH is not completely understood, recent studies have revealed that macrophage activation is a major contributing factor for the disease progression. Macrophages integrate the immune response and metabolic process and have become promising targets for NASH therapy. Natural products are potential candidates for NASH treatment and have multifactorial underlying mechanisms.

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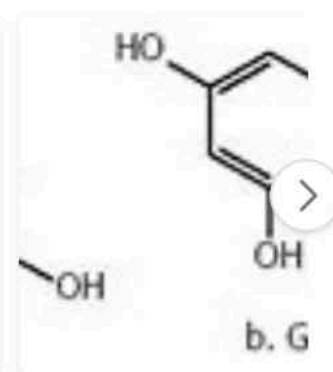
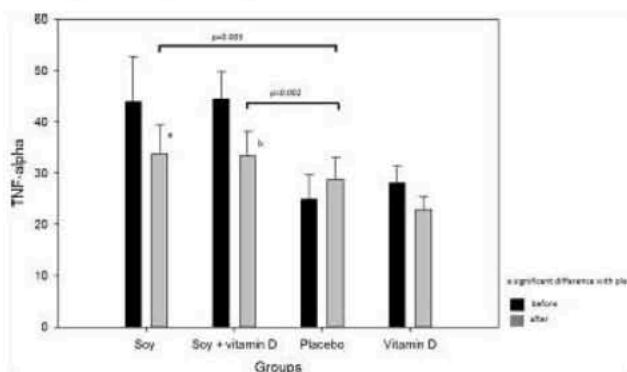
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[Influence of dietary isoflavone intake on gastrointestinal ...](#)<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5550784>

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 Głąbska, 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.

Cited by: 83**Author:** Jie Yu, Xiaojuan Bi, Bing Yu, Daiwen C...**Publish Year:** 2016[Images of isoflavones and inflammatory bowel disease](#)<bing.com/images>

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Macrophages in Nonalcoholic Steatohepatitis: Friend or Foe ...

<https://www.emjreviews.com/hepatology/article/...>

Recently, an **anti-inflammatory antibody-drug conjugate** composed of the **synthetic GC dexamethasone** linked to an antibody for **macrophage receptor** CD163 exhibited a reducing effect of cytokines in experimental tests on rats, thus preventing **steatohepatitis** without apparent serious systemic side effects. 71 With the shift from a two-hit hypothesis of NASH to a multivariable process, the therapeutic target of regulating the **hepatic cholesterol metabolism** ...

Common Vitamins and Supplements to Treat nonalcoholic ...

<https://www.webmd.com/vitamins/condition-1928/...>

Below is a list of common **natural** remedies used to **treat** or reduce the symptoms of Nonalcoholic-**Steatohepatitis**-Nash. Follow the links to read common uses, side effects, dosage details and read ...

Herbal Medicines for the Treatment of Nonalcoholic ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4060323>

Natural Products for the Treatment of **NASH** **Alternative herbal medicines** are being used in three different forms, **plant extracts**, **polyherbal formulations**, and **phytochemicals**. The following section consists of detailed description of selected 20 **plant extracts** that have been evaluated for their beneficial action in controlling NASH.

Cited by: 19

Author: Ravirajsinh Jadeja, Ranjitsinh V. Devkar, ...

Publish Year: 2014

The role of macrophages in nonalcoholic fatty liver ...

<https://www.nature.com/articles/s41575-018-0082-x>

Nov 27, 2018 · **Nonalcoholic fatty liver disease (NAFLD)** and its inflammatory and often progressive subtype nonalcoholic steatohepatitis (**NASH**) are becoming the leading cause of liver-related morbidity and mortality worldwide, and a primary indication for **liver transplantation**.

Cited by: 71

Author: Konstantin Kazanek, Simon Mark Dahl J...

www.emjreviews.com/hepatology/article/macrophages-in-nonalcoholic-steatohepatitis-friend-or-foe/