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Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 56819

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Acupuncture improved lipid metabolism by regulating intestinal absorption in mice

Han J *et al.* Acupuncture improved NAFLD in mouse model

Jia Han, Xin Guo, Xiang-Jin Meng, Jing Zhang, Reimon Yamaguchi, Yoshiharu Motoo, Sohsuke Yamada

23 Abstract

BACKGROUND

Non-alcoholic fatty liver disease (NAFLD), in which abnormal lipid metabolism plays an important role in disease progression, has become a pandemic. Abnormal lipid metabolism, for example an increased fat intake, has been thought to be an initial factor

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Acupuncture Improved Lipid Metabolism by Regulating Intestinal



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[Acupuncture on ST36, CV4 and KI1 Suppresses the ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6949943>

Acupuncture improved the lipid metabolism in the livers of **mice** with NAFLD. (A) A hepatic **lipid** analysis in NG and AG **mice** after two weeks of **acupuncture**. Values are shown as the mean \pm SD, * $p < 0.05$, ** $p < 0.001$, *** $p < 0.0001$, $n = 17$.

Author: Xiangjin Meng, Xin Guo, Jing Zhang, Ju... **Publish Year:** 2019

[Metabolic effects of intestinal absorption and ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4629214>

Feb 20, 2015 · 1. Introduction. Research over the past 80 years has yielded considerable insight into the role of **bile acids** in **intestinal fat absorption**, hepatic bile formation, and cholesterol homeostasis¹. However more recently, it has become apparent that bile acids also serve as signaling molecules with metabolic effects that extend beyond their control of hepatobiliary and **intestinal** ...

[Regulation of intestinal lipid metabolism: current ...](#)

<https://www.nature.com/articles/s41575-019-0250-7>

Feb 03, 2020 · The small **intestine** is a key site for the **absorption** of nutrients, including **lipids**. In this Review, the physiology and biochemistry of **intestinal fat absorption** during health and disease is ...

Cited by: 1 **Author:** Chih-Wei Ko, Jie Qu, Dennis D. Black, Patric...

Publish Year: 2020

[DENND5B Regulates Intestinal Triglyceride Absorption and ...](#)

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https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6949943

Acupuncture Treatment Changed the Lipid Profiles and Regulated Lipid Metabolism in the Liver with NAFLD Induced by an MCD Diet The hepatic triglyceride (TG) and free fatty acid (FFA) levels in liver were significantly lower in AG mice than in NG mice (TG: AG 6.7 ± 3.5 mg/g vs. NG 11.0 ± 5.2 mg/g; p < 0.05, n = 17; FFA: AG 0.15 ± 0.15 mEq/g vs. NG 0.4 ± 0.2 mEq/g; p < 0.01, n = 17).

Cited by: 1

Author: Xiangjin Meng, Xin Guo, Jing Zhang, Junji ...

Publish Year: 2019

Reduced intestinal lipid absorption and body weight ...

https://pubmed.ncbi.nlm.nih.gov/27166280

We find that intestinal lipid absorption is impaired in Park2 KO mice as evidenced by increased fecal lipids and reduced plasma triglycerides after intragastric fat challenge. Park2 KO mice developed hepatic steatosis in response to intravenous lipid infusion as well as during incubation of primary hepatocytes with fatty acids, suggesting that ...

Metabolic effects of intestinal absorption and ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4629214

Feb 20, 2015 · In addition to its role in lipid metabolism, FXR may regulate glucose metabolism26, ... administration of the TGR5-selective synthetic agonist (INT-777) to mice attenuated diet-induced obesity and improved glucose tolerance48. ... there is a decrease in intestinal lipid absorption due to a reduction in the bile acid pool size.

Cited by: 67

Author: Courtney B. Ferrebee, Courtney B. Ferrebee...

Publish Year: 2015

Intestinal lipid absorption | American Journal of ...

https://www.physiology.org/doi/10.1152/ajpendo.90899.2008

Recently, we showed that a deficiency in inositol-requiring enzyme 1β (IRE1β) in mice placed on a high-fat, high-cholesterol diet enhances intestinal MTP expression, which leads to increased lipid absorption and chylomicron secretion . IRE1β was shown to cause ...

Cited by: 621

Author: Jahangir Iqbal, M. Mahmood Hussain

Publish Year: 2009

Microbiota regulate intestinal absorption and metabolism ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3517662

Sep 13, 2012 · The microbiota promote intestinal fatty acid accumulation in a diet-dependent manner. To determine the impact of the microbiota on dietary lipid absorption in the intestine, we used BODIPY-labeled palmitic acid (BODIPY-C 16), which represents the most common saturated long-chain FA found in triglycerides, and medium chain pentanoic acid (BODIPY-C 5; the BODIPY fluorophore effectively ...

Cited by: 399

Author: Ivana Semova, Juliana D. Carten, Jesse Sto...

Publish Year: 2012

Dietary lipids, gut microbiota and lipid metabolism

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6938793

Nov 09, 2019 · Interaction between dietary lipids and the gut microbiota. The gut microbiota has been shown to differ between mice fed diets that are high or low in fat and between diets that contain equal amounts of fat but from different sources [10–13] (Fig. (Fig.1). 1).A comparison of mice on a variety of diets (low-fat diet and diets containing high levels of saturated fat, n-6 PUFA or n-3 PUFA ...

Intestinal microbiota-farnesoid X receptor axis in ...

https://www.sciencedirect.com/science/article/pii/S0009898120302710

Primary bile acid synthesis in the liver. It binds to taurine or glycine and enters the intestine. It is transformed into secondary bile acid under the action of intestinal microbiota. It not only plays an important role in lipid digestion and absorption but also can regulate the FXR signaling pathway involved in body metabolism.

Fermented soybean powder containing Bacillus subtilis ...

https://www.sciencedirect.com/science/article/pii/S1756464619302993

Aug 01, 2019 · subtilis improved lipid metabolism and mitochondrial function in obese mice ... Lipid transport appears to be important in regulating lipid accumulation. ... Abcg5 and Abcg8 function as sterol transporters in intestinal absorption while promoting biliary secretion of sterols.

Effects of Gut Microbes on Nutrient Absorption and Energy ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3601187

Absorption of Monosaccharides and SCFA by the Host Epithelium. Monosaccharides are directly absorbed by the intestinal epithelium via monosaccharide transporters. 49,50 In a healthy individual consuming a typical Western diet, about 100–200 mM SCFAs are produced per day in the large intestine, 51,52 of which about 90%–95% are absorbed in the colon. 25 The molar ratio of acetate to ...

Oat fiber inhibits atherosclerotic progression through ...

https://www.sciencedirect.com/science/article/pii/S1756464619301185

May 01, 2019 · Beyond these, a new research confirmed that the reprogramming of gut microbiota mediated SCFA production (especially for acetic acid) can improve lipid metabolism in high-fat diet-fed mice (Yin et al., 2018).

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Acupuncture improved lipid metabolism by regulating intestinal ab:



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Small Intestine Microbiota Regulate Host Digestive and ...

<https://www.sciencedirect.com/science/article/pii/S1931312818301409>

Apr 11, 2018 · Given the decreased **lipid absorption** found in GF **mice** maintained on a HF diet (Figure 2C), we conclude that microbes can play an essential role in **regulating** host **lipid absorption**. Therefore, changes in the small bowel microbiota could have significant consequences for the functional role of the small **intestine** in **regulating** host macronutrient ...

Cited by: 122

Author: Kristina Martinez-Guryn, Kristina Martine...

Publish Year: 2018

(PDF) Acupuncture on ST36, CV4 and KI1 Suppresses the ...

<https://www.researchgate.net/publication/337846159...>

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Acupuncture improved the lipid metabolism in the livers of ... 4 A ff ects **Intestinal** Function in ...

Microbiota Regulate Intestinal Absorption and Metabolism ...

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