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Optimized Analysis of In Vivo and In Vitro Hepatic Steatosis

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5408851>

Mar 11, 2017 · To generate hepatic steatosis in mouse primary hepatocytes, high concentrations of glucose plus insulin are used to induce lipid accumulation, which is a novel and efficient in vitro model to mimic in vivo diet-induced hyperglycemia and hyperinsulinemia. This treatment is also applicable to other hepatic cell lines, such as HepG2 cells.

Cited by: 3      Author: Aoyuan Cui, Zhimin Hu, Yamei Han, Yi Y...

Publish Year: 2017

Dysregulated hepatic expression of glucose transporters in ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4269679>

Dec 15, 2014 · VAP-1 expression and enzyme activity increased in disease, and provision of substrate to hepatic VAP-1 drives hepatic glucose uptake. This effect was sensitive to inhibition of VAP-1 and could be recapitulated by H2O2. VAP-1 activity also altered expression and subcellular localization of GLUT2, -4, -9, -10, and -13.

Cited by: 8      Author: Sumera Karim, Evaggelia Liaskou, Janin...

Publish Year: 2014

VAP-1 Modulates Hepatic Glucose Metabolism

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4269679>

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Publish Year: 2014

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### [Vascular adhesion protein-1 promotes liver inflammation ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4319424>

Feb 02, 2015 · **Hepatic** VAP-1 expression is increased in human CLD. We investigated **hepatic** expression of VAP-1 in the spectrum of NAFLD by immunohistochemistry (Figure (Figure2A). 2 A). In normal **liver** and in patients with simple **steatosis**, we observed that VAP-1 expression was confined to **vascular** structures, portal vessels, central veins, and sinusoids.

**Cited by:** 124 **Author:** Chris J. Weston, Emma L. Shepherd, Lee...

**Publish Year:** 2015

### [JCI - Vascular adhesion protein-1 promotes liver ...](#)

<https://www.jci.org/articles/view/73722> ▾

Dec 22, 2014 · Persistent **hepatic** inflammation in diseased livers results in progressive fibrosis and loss of **hepatic** function. **Vascular adhesion protein-1** (VAP-1) is expressed on the **hepatic** endothelium and recruits leukocytes to the **liver**; however, it is also produced as a soluble form (sVAP-1) that has monoamine oxidase activity.

### [\(PDF\) Vascular adhesion protein-1 promotes liver ...](#)

<https://www.researchgate.net/publication/270652483...>

**Vascular adhesion protein-1** promotes **liver** inflammation and drives **hepatic** fibrosis Chris J. Weston, 1 Emma L. Shepherd, 1 Lee C. Claridge, 1,2 Pia Rantakari, 3 Stuart M. Curbishley, 1 Jeremy W .

### [Vascular adhesion protein 1 in nonalcoholic ...](#)

<https://aasldpubs.onlinelibrary.wiley.com/doi/full/10.1002/hep.27942>

Jun 18, 2015 · University of California Davis and VA Northern California, **Health System**, Sacramento, CA. Search for more papers by this author. Natalie J. Torok M.D. University of California Davis and VA Northern California, Health System, Sacramento, CA. Search for more papers by this author.

**Author:** Natalie J. Torok **Publish Year:** 2015

### [Vascular adhesion protein-1 promotes liver inflammation ...](#)

<https://europepmc.org/articles/PMC4319424> ▾

Dec 22, 2014 · The **adhesion** molecule **vascular adhesion protein-1** (VAP-1) is a membrane-bound **amine oxidase** that **promotes leukocyte recruitment to the liver** and the soluble form (sVAP-1) accounts

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Basic Study

Inhibition of vascular adhesion protein-1 modifies hepatic steatosis *in vitro* and *in vivo*

Shepherd EL *et al.* Role of VAP-1 in hepatic steatosis

Emma L. Shepherd, Sumera Karim, Philip N Newsome, Patricia F Lalor

Abstract

BACKGROUND

Non-alcoholic fatty liver disease (NAFLD) is associated with obesity, insulin resistance and dyslipidaemia and currently is estimated to affect up to a third of all individuals in developed countries. Current standard of care for patients varies according to disease stage, but includes lifestyle interventions common insulin sensitizers, antioxidants and

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### JCI - Vascular adhesion protein-1 promotes liver ...

<https://www.jci.org/articles/view/73722> ▾

Dec 22, 2014 · **VAP-1** is constitutively expressed on human **hepatic endothelium** and supports **lymphocyte adhesion and transendothelial migration** across primary **hepatic sinusoidal endothelium** *in vitro* and in several models of **liver inflammation** *in vivo* (12 – 15).

### (PDF) Vascular adhesion protein-1 promotes liver ...

[https://www.researchgate.net/publication/270652483\\_Vascular\\_adhesion\\_protein-1...](https://www.researchgate.net/publication/270652483_Vascular_adhesion_protein-1...)

The **adhesion molecule vascular adhesion protein-1 (VAP-1)** is a membrane-bound **amine oxidase** that promotes leukocyte recruitment to the liver, and the soluble form (**sVAP-1**...

### Vascular adhesion protein 1 in nonalcoholic ...

<https://aasldpubs.onlinelibrary.wiley.com/doi/full/10.1002/hep.27942>

Jun 18, 2015 · A major obstacle for diagnosing NASH is that there currently are no acceptable serum biomarkers to distinguish simple **steatosis** from **steatohepatitis**. **1** In the article by Weston et al., **2** **vascular adhesion protein 1 (VAP-1)** is described as an important chemoattractant for leukocytes both in soluble (**sVAP-1**) and receptor forms in three different animal models of steatohepatitis. Furthermore, they show that **VAP-1** ...

**Author:** Natalie J. Torok    **Publish Year:** 2015

### Vascular adhesion protein-1 is elevated in primary ...

<https://gut.bmj.com/content/67/6/1135> ▾

Jun 01, 2018 · Results The intrahepatic enzyme activity of VAP-1 was elevated in PSC versus immune-mediated disease controls and non-diseased **liver** ( $p < 0.001$ ). The **adhesion** of gut-tropic  $\alpha 4\beta 7$  + lymphocytes to **hepatic** endothelial cells *in vitro* under flow was attenuated by 50% following administration of the VAP-1 **inhibitor** semicarbazide ( $p < 0.01$ ). Of a number of natural ...

**Cited by:** 26

**Author:** Palak J Trivedi, Joseph Tickle, Mette N ...

**Publish Year:** 2018