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Hepatic TNF receptor signaling is not protective in non-



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### IL-6 Deficiency Attenuates Murine Diet-Induced Non ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2775411>

TNF $\alpha$  is known to play a central role in **insulin resistance** and is critically involved in alcoholic **steatohepatitis**. Moreover, **liver** and adipose tissue TNF $\alpha$  and **TNF receptor 1** (TNFR1) transcripts as well as serum TNF $\alpha$  levels are increased in patients with NASH. While these observations point to some contribution of TNF $\alpha$  to the pathogenesis ...

**Cited by:** 78

**Author:** Emmanuel Mas, Emmanuel Mas, Marie ...

**Publish Year:** 2009

### Toll-Like Receptors in Alcoholic Liver Disease, Non ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3721430>

Toll-Like **Receptors** in NASH. Non-alcoholic **steatohepatitis** (NASH) is **hepatic** manifestation of metabolic syndrome. NASH is characterized by steatosis, inflammation, and progressive fibrosis that ultimately lead to the end-stage of **liver** disease. 29, 30 Recent evidence suggests that overgrowth of intestinal bacteria and increased intestinal permeability are associated with the ...

**Cited by:** 181

**Author:** Yoon Seok Roh, Ekihiro Seki

**Publish Year:** 2013

### Genistein Attenuates Nonalcoholic Steatohepatitis and ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4515499>

1. Introduction. Nonalcoholic **steatohepatitis** (NASH) is a chronic **liver** inflammation caused by fat accumulation in hepatocyte. It is a subset of nonalcoholic fatty **liver** disease (NAFLD) that covers a spectrum ranging from benign **hepatic** steatosis to aggressive NASH which can progress to cirrhosis and hepatocellular carcinoma and eventually **liver**-related death [].

**Cited by:** 6

**Author:** Warinda Susutlerpanya, Duangporn W...

**Publish Year:** 2015

### Insulin resistance, inflammation, and non-alcoholic fatty ...

<https://www.sciencedirect.com/science/article/pii/S1043276008001355>



Tumor necrosis factor  $\alpha$  receptor-1 deficiency in hepatocytes does i



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### The Role of Osteopontin and Tumor Necrosis Factor Alpha ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4285781>

Tumor necrosis factor alpha and its receptor-1 (TNFR 1) represent key molecules critically engaged in the pathogenesis of numerous liver diseases including viral or toxin-induced hepatitis and its sequel liver fibrosis 22–24. In addition, anti-TNF- $\alpha$  antibodies were shown to ...

Cited by: 55 Author: Peter Fickert, Andrea Thueringer, Tarek ...

Publish Year: 2010

### Alcohol increases tumor necrosis factor $\alpha$ and decreases ...

<https://aasidpubs.onlinelibrary.wiley.com/doi/10.1002/hep.20949>

Both obesity and alcohol can cause oxidative stress, cytokine induction, and steatohepatitis. To determine the consequences of their combination, we compared the hepatic effects of ...

Cited by: 85 Author: Marie-Anne Robin, Christine Demeilliers, ...

Publish Year: 2005

### Tumor necrosis factor receptor 1 gain-of-function mutation ...

<https://aasidpubs.onlinelibrary.wiley.com/doi/full/10.1002/hep.26046>

Tumor necrosis factor receptor 1 gain-of-function mutation aggravates nonalcoholic fatty liver disease but does not cause insulin resistance in a murine model † ‡ \* Marcela Aparicio-Vergara Molecular Genetics, Medical Biology Section, Department of Pathology and Medical Biology, University of Groningen, University Medical Center ...

Cited by: 27 Author: Marcela Aparicio-Vergara, Pascal P. H. H...

Publish Year: 2013

#### PEOPLE ALSO ASK

What istnf tumor necrosis factor?



What is the role of TNF in tumor necrosis factor?



Does TNF cause cell death?



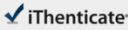
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**Manuscript NO:** 55606

**Manuscript Type:** ORIGINAL ARTICLE

**Basic Study**

Hepatic tumor necrosis factor  $\alpha$  receptor signaling is not protective in non-alcoholic steatohepatitis, but attenuates insulin resistance

Bluemel S *et al.* Role of TNFR1 in NASH

Sena Bluemel, Yanhan Wang, Suhan Lee, Bernd Schnabl

**Abstract**

BACKGROUND

End-stage liver disease caused by non-alcoholic steatohepatitis (NASH) is the second leading indication for liver transplantation. To date, only moderately effective pharmacotherapies exist to treat NASH. Understanding the pathogenesis of NASH is therefore crucial for the development of new therapies. The inflammatory cytokine tumor necrosis factor  $\alpha$  (TNF) is important for the progression of liver disease. TNF

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Tumor necrosis factor  $\alpha$  receptor-1 deficiency in hepatocytes doe:



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### Risk factors and Mechanisms of Non-alcoholic Steatohepatitis

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2600439>

Adiposity and adipose tissue. Adiposity is clearly one of the most well-studied risk factors for NASH (5; 6). A clinical series of 39 Korean patients revealed that body mass index (BMI) values were useful in distinguishing NASH from simple steatosis, with a BMI of 28.9 suggested to be the threshold for the existence of NASH (). It has been proposed that abdominal adiposity is particularly ...

**Cited by:** 19

**Author:** Chantal A. Rivera

**Publish Year:** 2008

### The Role of Osteopontin and Tumor Necrosis Factor Alpha ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4285781>

**Tumor necrosis factor** alpha and its **receptor-1** (TNFR 1) represent key molecules critically engaged in the pathogenesis of numerous liver diseases including viral or toxin-induced hepatitis and its sequel liver fibrosis 22–24. In addition, anti-TNF- $\alpha$  antibodies were shown to reduce hepatic inflammation and fibrosis 25,26.

**Cited by:** 53

**Author:** Peter Fickert, Andrea Thueringer, Tarek ...

**Publish Year:** 2010

### Tissue Factor-Deficiency and Protease Activated Receptor-1 ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2797880>

However, unlike the clinical condition, mice fed the MCD diet lose weight 56 and do **not** develop **insulin resistance**. 2 In contrast, recent studies have shown that induction of hyperlipidemia by a Western diet induces obesity and **insulin resistance**, as well as **steatohepatitis** and fibrosis in rodents. 57,58 Although the time required to observe ...

**Cited by:** 62

**Author:** James P. Luyendyk, Bradley P. Sullivan, ...

**Publish Year:** 2010

### Alcoholic liver disease: Pathogenesis, management, and ...

<https://onlinelibrary.wiley.com/doi/full/10.1111/igh.12030>