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Basic Study

Mismatched effects of receptor interacting protein kinase-3 on hepatic steatosis and inflammation in non-alcoholic fatty liver disease

Saeed WK *et al.* RIP3 deletion and NAFLD

Waqar Khalid Saeed, Dae Won Jun, Kiseok Jang, Sang Bong Ahn, Ju Hee Oh, Yeon Ji Chae, Jai Sun Lee, Hyeon Tae Kang

Abstract

AIM

To validate the effects of receptor interacting protein kinase-3 (RIP3) deletion in non-alcoholic fatty liver disease (NAFLD) and to clarify the mechanism of action.

METHODS

Wild-type (WT) and RIP3 knockout (KO) mice were fed with normal chow and high fat (HF) diet for 12 wk. The body weight was assessed once weekly. After 12 wk, the liver and serum samples were extracted. The liver tissue expressions for RIP3, microsomal triglyceride transfer protein (MTTP), protein disulfide isomerase (PDI), apolipoprotein-B (ApoB), X-box binding protein-1, sterol regulatory element-binding protein-1c, fatty

Match Overview

1	Crossref 28 words W. Saeed, D.W. Jun, E. Kim, K.S. Jang, B.-K. Kang, E.C.J. Jang, S.B. Ahn, M.M. Kim, J.Y. Jeong, J.H. Sohn. "Divergent ...	1%
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... **hepatic steatosis** and **inflammation** in **non-alcoholic fatty liver disease**. ... role in regulating **inflammatory** processes in non-alcoholic steatohepatitis (NASH) and ... of Th17 cell-related genes [retinoid-related orphan **receptor** gamma (ROR)γt, ...

缺少字词: mismatched effects interacting protein 3

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In addition, the **interaction** between hepatocytes and Th17 cells were investigated in ... The **inflammatory** grades were defined as 0–3: 0, no **inflammatory** foci per ×10 field; kinase B (AKT) and fatty acid metabolism [sterol **receptor** element-binding **protein-1c** **Nonalcoholic fatty liver disease**: from **steatosis** to cirrhosis.

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作者: S Roychowdhury - 2016 - 被引用次数: 23 - 相关文章

2016年7月17日 - **Receptor interacting protein 3** protects mice from high-fat ... Hepatocyte death is associated with progression of **nonalcoholic fatty liver disease**, and inhibition of ... HFD also increased **hepatic steatosis**, plasma alanine aminotransferase ... Importantly, increased **inflammation** and injury were associated with ...

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Fatty liver is associated with blood pathways of inflammatory response ...

<https://www.nature.com/scientific-reports/articles> - 翻译此页

作者: T Taipale - 2018

2018年7月9日 - The **fatty liver disease** (FLD) is a common **liver** disorder in western ... Evaluation of

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作者: S Wang - 2016 - 被引用次数: 22 - 相关文章

2016年4月5日 - Increased hepatic **receptor interacting protein kinase 3** expression due to impaired proteasomal functions contributes to **alcohol**-induced steatosis and **liver** injury. ... activity and **hepatic steatosis** but had **no effect** on hepatic neutrophil ... Gao-binge-induced hepatic **inflammation**, neutrophil infiltration and ...

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Non-Alcoholic Fatty Liver Disease: Cause or Effect of Metabolic ...

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作者: C Grander - 2016 - 被引用次数: 9 - 相关文章

2016年9月16日 - **Non-alcoholic fatty liver disease** (NAFLD) is the most common liver disease throughout the world. Importantly, **hepatic steatosis** is not unambiguously associated with insulin ... (1) **Interaction** of insulin with its **receptor** results in tyrosine ... JAK-3 = janus kinase 3; MEK = mitogen-activated **protein kinase**; ...

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Oxyresveratrol ameliorates nonalcoholic fatty liver disease by ... - NCBI

<https://www.ncbi.nlm.nih.gov/pubmed/29702089> - [翻译此页](#)

作者: JH Lee - 2018 - 被引用次数: 1 - 相关文章

2018年4月24日 - Chem Biol **Interact.** ... It has been shown that OXY has regulatory **effects** on **inflammation** and ... in preventing or curing **nonalcoholic fatty liver disease** (NAFLD). ... OXY also induced AMP-activated **protein kinase** (AMPK) activation in a ... indicating lipid droplets and **hepatic steatosis** regions, as well as the ...

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Treatment Options for Nonalcoholic Fatty Liver Disease - NCBI - NIH

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作者: S Chitturi - 2008 - 被引用次数: 18 - 相关文章

Nonalcoholic fatty liver disease (NAFLD) comprises a spectrum of liver disorders ... **anti-inflammatory**

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作者: C Grander - 2016 - 被引用次数: 9 - 相关文章

2016年9月16日 - **Non-alcoholic fatty liver disease** (NAFLD) is the most common liver disease throughout the world. Importantly, **hepatic steatosis** is not unambiguously associated with insulin ... (1) **Interaction** of insulin with its **receptor** results in tyrosine ... JAK-3 = janus kinase 3; MEK = mitogen-activated **protein kinase**; ...

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Interleukin-17 exacerbates hepatic steatosis and inflammation in non ...

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作者: Y Tang - 2011 - 被引用次数: 150 - 相关文章

Up to one-third of patients presenting with **non-alcoholic fatty liver disease** (NAFLD) ... have a risk of progressive fibrosis, cirrhosis and **hepatic** cellular carcinoma [1–3]. ... In addition, the **interaction** between hepatocytes and Th17 cells were [insulin substrate **receptor** 1 (IRS-1) and **protein kinase B** (AKT) and fatty acid ...

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Treatment Options for Nonalcoholic Fatty Liver Disease - NCBI - NIH

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3002502/> - 翻译此页

作者: S Chitturi - 2008 - 被引用次数: 18 - 相关文章

Nonalcoholic fatty liver disease (NAFLD) comprises a spectrum of liver disorders **anti-inflammatory** and antifibrotic **effects** ... A recent review of diets suitable for NAFLD patients recommended a monounsaturated fat/n-3 fatty acid/high fibre **hepatic** fatty acid b-oxidation (by activating AMP-activated **protein kinase**) and ...

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Nonalcoholic Fatty Liver Disease: Pathogenesis and Therapeutics ...

<https://www.hindawi.com/journals/omcl/2014/637027/> - 翻译此页

作者: AM Gusdon - 2014 - 被引用次数: 74 - 相关文章