Name of Journal: *World Journal of Hepatology*

Manuscript NO: 54737

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Ipragliflozin-induced improvement of liver steatosis in obese mice may involve sirtuin signaling

Suga T *et al*. SGLT2 inhibitor and sirtuin signaling

Takayoshi Suga, Ken Sato, Tatsuya Ohyama, Sho Matsui, Takeshi Kobayashi,

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In addition, chemical activators of SIRT1 inhibit SREBP target gene expression in vitro and in vivo, correlating with decreased hepatic lipid and cholesterol levels and **attenuated liver steatosis** in **diet-induced** and **genetically obese mice**. In summary, these findings imply that **hepatic SIRT1** plays a critical role in metabolic regulation and activation of SIRT1 in the **liver may** prove beneficial in **treating obesity-associates** …

Cited by: 242 **Author:** Thaddeus T. Schug, Xiaoling Li

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Jul 26, 2016 · Several studies have demonstrated that DPP-4 inhibitors can prevent and improve **liver steatosis** in diabetic **mice** or rodents fed a high-fat diet [6, 7]. In the same model as ours, linagliptin alleviates hepatic **steatosis** and inflammation by reducing macrophages infiltration and lobular inflammation, as well as expression of TNF-α and IL-6 [30].

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Yamaguchi K, Yang L, McCall S, et al. Inhibiting triglyceride synthesis improves hepatic **steatosis** but exacerbates **liver** damage and fibrosis **in obese mice** with nonalcoholic steatohepatitis. Hepatology. 2007; 45 (6):1366–1374. doi: 10.1002/hep.21655.

Cited by: 117 **Author:** Manoela Mota, Bubu A. Banini, Sophie C....
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In the obese mice, ipragliflozin-induced hyperphagia occurred to **increase energy intake, attenuating**

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