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Basic Study

Bone Morphogenetic Protein-7 Represses Hepatic Stellate Cell Activation and Liver Fibrosis via Regulation of TGF- β /Smad Signaling Pathway

Zou GL et al. BMP7 Represses HSC Activation and Liver Fibrosis

Gao-Liang Zou*, Shi Zuo*, Shuang Lu*, Rui-Han Hu, Yin-Ying Lu, Jing Yang, Kai-Sheng Deng, Ye-Ting Wu, Mao Mu, Juan-Juan Zhu, Jing-Zhang Zeng, Bao-Fang Zhang, Xian Wu, Xue-Ke Zhao, Hai-Yang Li

Abstract

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TGF-β/SMAD Pathway and Its Regulation in Hepatic Fibrosis - NCBI
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作者: F Xu - 2016 - 被引用次数: 134 - 相关文章
In response to **liver** injury, **hepatic stellate cells** (HSCs) become **activated**, which ... Secondly, **TGF-β1** induces myofibroblast formation **through** tubular EMT. ... Both **TGF-β** and BMP-7 share similar downstream **SMAD signaling pathways** but The ratio of **transforming growth factor-beta1/bone morphogenetic protein-7** in ...

Differential Regulation of TGF-β/Smad Signaling in Hepatic Stellate ...
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作者: K Yoshida - 2012 - 被引用次数: 97 - 相关文章
2012年3月19日 - Keywords: HSC, MFB, **TGF-β**, **Smad**, **liver fibrosis** ... In **cell-signaling pathways**, various transcription factors are phosphorylated at multiple sites ...

Targeting TGF-β Mediated SMAD Signaling for the Prevention of Fibrosis
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5509761/> ▼ 翻译此页
作者: KL Walton - 2017 - 被引用次数: 45 - 相关文章
2017年7月14日 - **TGF-β1 activation** is also increased in fibrotic tissue **via** biomechanical tissue ... Whilst hyper-**activation** of the **SMAD-2/3 pathway** is reported to be pro-fibrotic, ... fatty **liver disease** (NAFLD) and is protective for **hepatic** fibrosis (Arndt et al., 2015). Role of **bone morphogenetic protein-7** in renal fibrosis.

MircoRNA-145 promotes activation of hepatic stellate cells via ... - Nature
<https://www.nature.com/scientific-reports/articles> - 翻译此页
作者: R Men - 2017 - 被引用次数: 5 - 相关文章
2017年1月16日 - Additionally, the mRNA and **protein** levels of KLF4 in the liver of ... **Hepatic stellate cells** (HSCs) play a key role in **liver fibrosis/cirrhosis**. ... In vascular smooth muscle cells, KLF4 **repressed** α-SMA expression by bound to the **TGF-β** ... To examine whether miR-145 could be able to **regulate activation** of HSCs, ...

[PDF] BMP Signalling at the Crossroad of Liver Fibrosis and ... - MDPI
<https://www.mdpi.com/1422-0067/19/1/39/pdf> ▼ 翻译此页
作者: B Herrera - 2017 - 被引用次数: 2 - 相关文章
2017年12月23日 - Keywords: BMP; **liver**; **fibrosis**; regeneration; **TGF-β**; chronic liver ... **Bone Morphogenetic Proteins** (BMPs) are multifunctional cytokines Such **regulation** occurs **via Smads**, involving both The **activation** of quiescent **hepatic stellate cells** (HSC) is a pivotal while **suppresses TGF-β** expression [139].

Transforming Growth Factor-β (TGF-β) Directly Activates the JAK1 ...
www.jbc.org/content/292/10/4302.full ▼ 翻译此页
作者: LY Tang - 2017 - 被引用次数: 40 - 相关文章
2017年3月10日 - Here, we report that JAK1 is a constitutive TGFβRI binding **protein** and is ... **Activated TGF-β** receptors also **signal through** a multitude of other ... is conveyed in **liver** cells, particularly **through** the non-**SMAD pathways**, ... for mediating **TGF-β** -induced **fibrotic** response in **hepatic stellate cells**. 7, 536–550.

The Anti-Fibrotic Effect of Bone Morphogenic Protein-7(BMP-7) on ...
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4441111/> ▼ 翻译此页

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TGF- β /SMAD Pathway and Its Regulation in Hepatic Fibrosis - NCBI

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4810800/> ▼ 이 페이지 번역하기

F Xu 저술 - 2016 - 149회 인용 - 관련 학술자료

In response to liver injury, **hepatic stellate cells** (HSCs) become **activated**, which ... The generation of fibrogenic fibroblasts **through** EMT can occur **through** a Both **TGF- β** and BMP-7 share similar downstream **SMAD signaling pathways** but The ratio of **transforming growth factor-beta1/bone morphogenetic protein-7** in ...

Differential Regulation of TGF- β /Smad Signaling in Hepatic Stellate ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3307138/> ▼ 이 페이지 번역하기

K Yoshida 저술 - 2012 - 100회 인용 - 관련 학술자료

2012. 3. 19. - Keywords: HSC, MFB, **TGF- β** , **Smad**, **liver fibrosis** ... In **cell-signaling pathways**, various transcription factors are phosphorylated at multiple sites ...

[PDF] BMP Signalling at the Crossroad of Liver Fibrosis and ... - MDPI

<https://www.mdpi.com/1422-0067/19/1/39/pdf> ▼ 이 페이지 번역하기

B Herrera 저술 - 2017 - 6회 인용 - 관련 학술자료

2017. 12. 23. - Abstract: **Bone Morphogenetic Proteins** (BMPs) belong to the ... Keywords: BMP; liver; **fibrosis**; regeneration; **TGF- β** ; chronic liver disease ... in vitro [7,8]. In addition to the canonical **Smad signalling pathway**, BMPs **activate** also of quiescent **hepatic stellate cells** (HSC) is a pivotal feature of liver fibrosis.

Transforming Growth Factor- β -Induced Cell Plasticity in Liver Fibrosis ...

<https://www.frontiersin.org/articles/409602> ▼ 이 페이지 번역하기

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Hes1, an important gene for activation of hepatic stellate ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4299340>

Jan 21, 2015 · The submitted manuscript entitled, "Hes1, an important gene for **activation of hepatic stellate** cells, is regulated by Notch1 and TGF- β /BMP **signaling**" presents a very interesting study. The finding highlights the crosstalk between Notch and TGF- β /BMP **signaling** modules in the **regulation** of Hes1 in **hepatic stellate** cells towards the ...

Cited by: 14

Author: Kai Zhang, Yan-Qiong Zhang, Wen-Bing ...

Publish Year: 2015

TGF- β /SMAD Pathway and Its Regulation in Hepatic Fibrosis ...

<https://journals.sagepub.com/doi/full/10.1369/0022155415627681>

Jan 08, 2016 · Accumulating evidence suggests that divergent miRNAs participate in the **liver fibrotic** process, which partially regulates members of the TGF- β /SMAD **signaling pathway**. In this review,... Transforming growth factor-beta1 (TGF- β 1), a key member in the TGF- β superfamily, plays a critical role in the development of **hepatic fibrosis**.

Cited by: 123

Author: Fengyun Xu, Changwei Liu, Dandan Zho...

Publish Year: 2016

TGF- β in Hepatic Stellate Cell Activation and Liver ...

<https://link.springer.com/article/10.1007/s40139-015-0089-8> ▾

Abstract. TGF- β is a pro-fibrogenic and antiproliferative protein with multiple functions depending on the cellular context. In **liver fibrosis**, TGF- β was identified as very robust driver of **hepatic stellate cell** (HSC) **activation** and extracellular matrix production, and a plethora of approaches targeting the TGF- β **signaling pathway** were successfully used to tackle fibrogenesis in animal ...

Cited by: 5

Author: Bedair Dewidar, Bedair Dewidar, Jitka So...

Publish Year: 2015

The Anti-Fibrotic Effect of Bone Morphogenic Protein-7(BMP ...

www.medsci.org/v10p0441.htm ▾

Conclusions: The anti-fibrogenic mechanism of rhBMP-7 in the rat **liver fibrosis** was depended on the reduction of TGF- β 1 overexpression and the inhibition of TGF- β 1 triggered intracellular signalling in **hepatic** cells. Keywords: **liver fibrosis**, **hepatic stellate cell**, hepatocytes, **bone morphogenic protein-7**, transforming growth factor beta 1 ...

Published in: [International Journal of Medical Sciences](#) · 2013

Authors: [Lan Zhong](#) · [Xiaolin Wang](#) · [Shenglan Wang](#) · [Li Yang](#) · [Hengjun Gao](#) · [Changqing Yang](#)

Affiliation: [Tongji University](#)