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SIMILAR**Name of Journal:** *World Journal of Hepatology***Manuscript NO:** 61549**Manuscript Type:** ORIGINAL ARTICLE**Basic Study****BRUCE regulation of  $\beta$ -catenin signaling in the progression of drug-induced hepatic fibrosis and carcinogenesis**

BRUCE regulates chronic liver disease progression

Chrystelle L. Vilfranc, Lixiao Che, Krushna C. Patra, Liang Niu, Olugbenga Olowokure,  
Jiang Wang, Shimul A Shah, Chunying Du

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Conclusions. In FPC-defective cholangiocytes, **β-Catenin** and IL-1β are responsible for STAT3-dependent secretion of CXCL10. In vivo experiments show CXCL10/CXCR3 axis prevents the recruitment of macrophages, reduces inflammation and halts the **progression** of the disease. The increased production of IL-1β highlights the autoinflammatory nature of CHF and may open novel therapeutic avenues.

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Author: Eleanna Kaffe, Romina Fiorotto, Romina Fi...

Publish Year: 2018

### [Activation of WNT/Beta-Catenin Signaling and Regulation of ...](https://aasldpubs.onlinelibrary.wiley.com/doi/10.1002/hep4.1430)

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Additionally, **β-catenin signaling** promotes the development and **progression** of several liver diseases, including diet-induced steatohepatitis, **fibrosis**, and cancer (reviewed in Monga 16 and Thompson and Monga 17). Of note, several recent studies have highlighted the role of **β-catenin** in regulating bile duct morphology and BA metabolism ...

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decreased hepatic bile acids (BAs) through activation of FXR. To further understand the role of Wnt/ $\beta$ -catenin signaling in regulating BA metabolism and cholestasis, we performed BDL on mice in which hepatocyte Wnt signaling is deficient but  $\beta$ -catenin is intact (low-density lipoprotein receptor-related protein [LRP]5/6 knockout [DKO]) as well as

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Additionally,  $\beta$ -catenin signaling promotes the development and progression of several liver diseases, including diet-induced steatohepatitis, fibrosis, and cancer (reviewed in Monga 16 and Thompson and Monga 17). Of note, several recent studies have highlighted the role of  $\beta$ -catenin in regulating bile duct morphology and BA metabolism ...

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## Inhibitors of Apoptotic Proteins: New Targets for ...

<https://onlinelibrary.wiley.com/doi/full/10.1111/cbdd.12176>

Synonyms: Baculoviral IAP **repeat-containing** protein 6 (BIRC6), Baculoviral IAP **repeat-containing ubiquitin-conjugating enzyme** (BRUCE), Baculoviral IAP **repeat-containing** 6 (Apollon), FLJ13726, FLJ13786. BIRC6 is found in high quantity in brain, testis, lymphatic cells, and secretory organs and also in many other tissues.

Cited by: 140

Author: Mohammad Saleem, Mohammad Sale...

Publish Year: 2013

## Roles for the Ubiquitin-Proteasome Pathway in Protein ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3417153>

Introduction. The **ubiquitin** proteasome pathway (UPP) is a highly selective proteolytic system that plays crucial roles in protein quality control, cell cycle control, proliferation, development, signal transduction, transcriptional **regulation**, receptor down-**regulation**, and synaptic plasticity [1–12]. The observation that the retina, like many other tissues, accumulates damaged proteins ...

Cited by: 29

Author: Fu Shang, Allen Taylor

Publish Year: 2012

## The Ubiquitin-Proteasome Proteolytic Pathway: Destruction ...

<https://journals.physiology.org/doi/full/10.1152/physrev.00027.2001>

Apr 01, 2002 · The number and variety of different E2s in mammalian species is much greater. For example, BRUCE (BIR **repeat-containing ubiquitin-conjugating enzyme**) is a colossal (528 kDa) E2 isolated from mice . It is membrane associated and localizes to the Golgi apparatus.

Cited by: 4636

Author: Michael H. Glickman, Aaron Ciechanover

Publish Year: 2002

## β-Catenin Signaling and Roles in Liver Homeostasis, Injury ...

<https://www.sciencedirect.com/science/article/pii/S001650851500308X>

Jun 01, 2015 · β-catenin (encoded by CTNNB1) is a subunit of the cell surface cadherin protein complex that acts as an intracellular signal transducer in the WNT **signaling** pathway; alterations in its activity have been associated with the development of hepatocellular carcinoma and other liver diseases Other than WNT additional **signaling** pathways also can converge at β-catenin β