

[Cellular and molecular mechanisms of liver regeneration ...](#)

<https://www.sciencedirect.com/science/article/pii/S1084952118302945>

Apr 01, 2020 · This **review** describes the specific role of cell death (apoptosis) in the termination phase of normal, healthy **liver** regeneration and discusses the possible **molecular** mechanisms involved. It has also been shown that hepatocytes possess a self-protective mechanism against oxidative stress and cell death, which prepares the **liver** for possible ...

Cited by: 6

Author: Michitaka Ozaki

Publish Year: 2020

[Understanding the Marvels Behind Liver Regeneration](#)

<https://pubmed.ncbi.nlm.nih.gov/30924280>

In this **review**, we describe the function, embryology, and anatomy of human **liver**, discuss the **molecular** basis of **liver** regeneration, elucidate the hepatocyte and cholangiocyte lineages mediating this process, explain the role of hepatic progenitor cells and elaborate the developmental signaling **pathways** and regulatory molecules required to ...

Cited by: 18

Author: Anan Abu Rmilah, Wei Zhou, Erik Nelson, L...

Publish Year: 2019

[Liver Development - an overview | ScienceDirect Topics](#)

<https://www.sciencedirect.com/.../liver-development>

Modes of **liver** regeneration. (A) In acute injury (e.g., PHx) the remaining hepatocytes and bile duct epithelial cells (BECs or cholangiocytes) are not injured. ... for a detailed **review** of the **molecular** mechanisms controlling **liver** development, ... many of the **molecular** signaling **pathways** that are associated with normal **liver** development have ...

[Liver regeneration: molecular mechanisms of growth control ...](#)

<https://faseb.onlinelibrary.wiley.com/doi/abs/10.1096/fasebj.4.2.2404819>

The **molecular** signals controlling **liver** regeneration are becoming rapidly defined. Control of growth in

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Molecular pathways of liver regeneration-A comprehensive review



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Apr 01, 2020 · Nrf2 upregulates major **antioxidant molecules** and p62/SQSTM1, and protects cells from oxidative stress. p62/SQSTM1 also leads to phosphorylation/activation of Akt and reduces the expression of harmful molecules (Fas and FasL) in liver cells. The FXR–p62/SQSTM1 pathway may be another important molecular mechanism that enables liver/hepatocyte protection in liver regeneration.

Cited by: 7

Author: Michitaka Ozaki

Publish Year: 2020

[Liver Regeneration after Hepatectomy and Partial Liver ...](#)

<https://pubmed.ncbi.nlm.nih.gov/33182515>

The **liver** is a unique organ with an abundant regenerative capacity. Therefore, partial hepatectomy (PHx) or partial **liver** transplantation (PLTx) can be safely performed. **Liver** regeneration involves a complex network of numerous hepatotropic factors, cytokines, **pathways**, and transcriptional factors. ...

Author: Shintaro Yagi, Masaaki Hirata, Yosuke...

Publish Year: 2020

[Videos of Molecular pathways of liver regeneration-A compre...](#)

15
Name of Journal: *World Journal of Hepatology*
Manuscript NO: 60295
Manuscript Type: REVIEW

Molecular pathways of liver regeneration-A comprehensive review

Yana V Kiseleva, Sevak Z Antonyan, Tatyana S Zharikova, Kirill A Tupikin, Dmitry V Kalinin, Yuri O Zharikov

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Molecular pathways of liver regeneration: A comprehensive review



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Cellular and molecular mechanisms of liver regeneration ...

<https://pubmed.ncbi.nlm.nih.gov/31669133>

The regeneration process of a normal, healthy liver depends mainly on hepatocyte proliferation, growth, and programmed cell death. Cell proliferation and growth are regulated in a cooperative manner by interleukin (IL)-6/janus kinase (Jak)/signal transducers and activators of transcription-3 (STAT3), and phosphoinositide 3-kinase (PI3-K)/phosphoinositide-dependent protein kinase 1 (PDK1)/Akt pathways.

Cited by: 7 Author: Michitaka Ozaki
Publish Year: 2020

Cellular and molecular mechanisms of liver regeneration ...

<https://www.sciencedirect.com/science/article/pii/S1084952118302945>

Apr 01, 2020 - This review describes the specific role of cell death (apoptosis) in the termination phase of normal, healthy liver regeneration and discusses the possible molecular mechanisms involved. It has also been shown that hepatocytes possess a self-protective mechanism against oxidative stress and cell death, which prepares the liver for possible insults and achieving liver regeneration [[5] , [6] , [7] , [8]].

Cited by: 7 Author: Michitaka Ozaki
Publish Year: 2020

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What is regenerative capacity of the liver?	▾
Can hepatocytes cause liver regeneration?	▾
Is the liver protected?	▾
How does aging compromise liver regeneration?	▾

Feedback

(PDF) A molecular view of liver regeneration

https://www.researchgate.net/publication/6780592_A...

The authors undertook a review of scientific publications with a focus on the liver regeneration. The cellular processes involved in liver regeneration require multiple systematic actions related