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Name of Journal: *World Journal of Gastroenterology*
Manuscript NO: 53944
Manuscript Type: MINIREVIEWS

Regulation of macrophage activation in the liver after acute injury: Role of the fibrinolytic system

Katherine Roth, Jenna Strickland, Bryan L Copple

Abstract

The liver functions, in part, to prevent exposure of the body to potentially harmful substances ingested in the diet. While it is highly efficient at accomplishing this, it is frequently prone to liver injury due to the biotransformation of xenobiotics into toxic metabolites. To counter this injury, the liver has evolved a unique capacity to rapidly and efficiently repair itself. Successful resolution of acute liver injury relies on hepatic macrophage populations that orchestrate the reparative response. After injury, Kupffer





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We tested the hypothesis that the **fibrinolytic** enzyme, plasmin, is a key regulator **of macrophage** function **after** APAP-induced **liver injury**. In these studies, inhibition of plasmin in mice with tranexamic acid delayed up-**regulation** of proinflammatory cytokines **after** APAP overdose.

Author: Katherine Roth, Jenna Strickland, Niki... **Publish Year:** 2019

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Jan 03, 2005 · **Macrophages** are associated with **liver** fibrosis during **injury** and repair. In order to determine the **role of macrophages** in **liver injury** and repair, we induced fibrosis (4 weeks of CCI 4), cirrhosis (12 weeks of CCI 4), and spontaneous recovery following both fibrosis and cirrhosis in rats as previously described (7, 24).

Cited by: 1575 **Author:** Jeremy S. Duffield, Stuart J. Forbes, Chri...

Publish Year: 2005

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<https://aasldpubs.onlinelibrary.wiley.com/doi/full/10.1002/hep4.1356>



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Dichotomous Role of Plasmin in Regulation of Macrophage ...

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Author: Katherine Roth, Jenna Strickland, Niki... **Publish Year:** 2019

Mesenchymal stromal cells promote liver regeneration ...

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Jan 22, 2020 · **Tumanov et al.** demonstrated that surface lymphotoxin secreted from T cells plays a critical **role in liver regeneration**, while a deficiency of T cells in mice leads to serious **liver injury** and reduced DNA synthesis after partial hepatectomy 48.

Author: Chenxia Hu, Zhongwen Wu, Lanjuan Li **Publish Year:** 2020

Liver Macrophages: Old Dogmas and New Insights - Guillot ...

<https://aasldpubs.onlinelibrary.wiley.com/doi/full/10.1002/hep4.1356>

In fact, **macrophage depletion** had detrimental consequences on **liver disease resolution**. 89, 90
Several reviews pondered beneficial versus detrimental **roles of macrophages during liver injury**. 91-94 A generally accepted view is that **proinflammatory macrophages**, derived from MoMFs, are required for **activating** regenerative mechanisms but may increase **tissue injury** through uncontrolled inflammation while **restorative macrophages** promote inflammation **resolution** ...

Cited by: 21 **Author:** Adrien Guillot, Adrien Guillot, Frank Tacke
Publish Year: 2019

Dichotomous Role of Plasmin in Regulation of Macrophage ...

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Liver immunology and its role in inflammation and ...

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