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Multiple inflammatory mediators crosstalk networks in the plasticity of liver fibrosis

Zhangdi HJ *et al.* Inflammatory mediator in liver fibrosis

Han-Jing Zhangdi, Si-Biao Su, Fei Wang, Zi-Yu Liang, Yu-Dong Yan, Shan-Yu Qin, Hai-Xing Jiang

Abstract

Liver fibrosis is the common pathological basis of all chronic liver diseases, and is the necessary stage for the development of chronic liver disease to cirrhosis. As one of pathogenic factors, inflammation play a predominant role in liver fibrosis via communication and interaction between inflammatory cell, cytokine and their related signaling pathways. Damaged hepatocytes induce

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In contrast to pathogenic effect of chemokines in **liver fibrosis**, the CX3CL1-CX3CR1 interaction on **liver** macrophages negatively regulates **liver inflammation** by enhancing macrophage survival and partly inducing an anti-**inflammatory** phenotype (72,73). CX3CL1 is mainly expressed on HSCs, which suggests an anti-**inflammatory** property of HSCs.

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Tissue damage and **inflammation** are important triggers for regeneration and **fibrosis**. Tissue damage not only induces **inflammation** in general, it also determines the type and polarization of **inflammation** by recruiting and activating a variety of different cells types of the innate and adaptive immune system.

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Jul 26, 2014 · **Inflammation** is one of the most characteristic features of chronic **liver** disease of viral, alcoholic, fatty, and autoimmune origin. **Inflammation** is typically present in all disease stages and associated with the development of **fibrosis**, cirrhosis, and hepatocellular carcinoma.

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