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Name of Journal: *World Journal of Hepatology*

Manuscript NO: 59622

Manuscript Type: ORIGINAL ARTICLE

*Clinical and Translational Research*

Production and activity of metalloproteinases during <sup>4</sup>liver fibrosis progression of <sup>13</sup>chronic hepatitis C patients

Martinez-Castillo M *et al.* Metalloproteinases-2, 7 and 9 in liver fibrosis evolution

Moises Martinez-Castillo, Abigail Hernandez-Barragan, Ivonne Flores-Vazconcelos, Marina Galicia-Moreno, Dorothy Rosique-Oramas, Jose L Perez-Hernandez, <sup>13</sup>Fatima Higuera-De la Tijera, Eduardo E Montalvo-Jave, Aldo Torre-Delgadillo, Paula Cordero-Perez, Linda Muñoz-Espinosa, David Kershenobich, Gabriela Gutierrez-Reyes

**Abstract**

## BACKGROUND



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Matrix metalloproteinases and liver fibrosis ...

<https://www.sciencedirect.com/science/article/pii/S0945053X17303530>

Aug 01, 2018 · **Liver fibrosis** is a common pathologic consequence of a wide variety of **chronic liver** diseases, including **hepatitis B** and **C** virus infections, alcoholic **liver** disease, nonalcoholic fatty **liver** disease (NAFLD) especially nonalcoholic steatohepatitis (NASH), as well as primary biliary cholangitis (PBC), primary sclerosing cholangitis (PSC), and other autoimmune **liver** diseases (AIH).

Cited by: 32 Author: Elke Roeb

Publish Year: 2017

Matrix Metalloproteinase Gene Delivery for Liver Fibrosis

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2245995>

INTRODUCTION. **Liver fibrosis** results from continuous damage to the **liver**, including viral **hepatitis**, alcohol abuse, drugs, metabolic diseases involving an overload of iron or copper, autoimmune diseases, or congenital abnormalities (1,2). The end stage of **liver fibrosis**, cirrhosis, is characterized by increased deposition and altered composition of the ECM and the appearance of regenerative ...

Cited by: 88 Author: Yuji Iimuro, David A. Brenner, David A. Bren...

Publish Year: 2008

Clinical Advances in Fibrosis Progression of Chronic ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4521239>

Dec 15, 2014 · During the postinflammatory stage, there is an imbalance of **ECM production** and degradation, which are controlled by regulation of **matrix metalloproteinases (MMPs)** and tissue inhibitors of **metalloproteinases (TIMPs)**, respectively, resulting in an overabundance of ECM accumulation and, ultimately, the development of **liver fibrosis** (see Fig. 1).5.

Cited by: 4 Author: Ye-Jiao Wu, Ming-Yi Xu, Lun-Gen Lu

Publish Year: 2014

Liver fibrosis improvement in chronic hepatitis C after ...

<https://www.sciencedirect.com/science/article/pii/S1590865820301948>

Oct 01, 2020 · In regards to the fibrogenesis-fibrinolysis balance **during the progression of chronic liver** disease, MMPs and TIMPs have been considered as important indicators of HCV-induced **fibrosis**. In this sense, MMPs-2 and -9 gelatinases are especially important for the evaluation of **liver** disease **progression in chronic hepatitis C** [5,7].

Author: Thalia Medeiros, Geórgia N Saraiva, Lai... Publish Year: 2020

Senescence mirrors the extent of liver fibrosis in chronic ...

<https://onlinelibrary.wiley.com/doi/full/10.1111/apt.14802>

To investigate the role of senescence and different senescence markers for **fibrosis progression** in **patients with chronic hepatitis C** virus (HCV ) infection. Methods. The expression of the cell cycle inhibitors p21, p27 and p16 as well as the senescence markers p-HP 1γ and γ-H2AX was analysed in **liver** tissue with different **fibrosis stages**.

Cited by: 4 Author: F. Wandrer, B. Han, S. Liebig, J. Schlue, M. P...

Publish Year: 2018

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<https://www.sciencedirect.com/science/article/pii/S0945053X17303530>

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### PEOPLE ALSO ASK

What are the scoring systems for chronic hepatitis?



What are serum markers for hepatic fibrosis?



How is hepatic fibrosis diagnosed?



Feedback

## [Clinical Advances in Fibrosis Progression of Chronic ...](#)