

Accepted Manuscript

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PII: S0024-3205(17)30536-2
DOI: doi:[10.1016/j.lfs.2017.10.023](https://doi.org/10.1016/j.lfs.2017.10.023)
Reference: LFS 15392

To appear in: *Life Sciences*

Received date: 14 August 2017
Revised date: 8 October 2017
Accepted date: 17 October 2017

Please cite this article as: Jinfeng Zang, Min Sha, Chi Zhang, Jun Ye, Kezhi Zhang, Junye Gao, Senescent hepatocyte secretion of matrix metalloproteinases is regulated by nuclear factor- κ B signaling. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Lfs(2017), doi:[10.1016/j.lfs.2017.10.023](https://doi.org/10.1016/j.lfs.2017.10.023)

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Senescent hepatocyte secretion of matrix metalloproteinases is regulated by nuclear factor- κ B signaling

Jinfeng Zang¹, Min Sha², Chi Zhang¹, Jun Ye², Kezhi Zhang¹, Junye Gao¹

1, Department of Hepatobiliary Surgery, Taizhou People's Hospital, the Fifth Affiliated Hospital of Medical School of Nantong University.

2, Central Laboratory, Taizhou People's Hospital, the Fifth Affiliated Hospital of Medical School of Nantong University

Corresponding author: Jinfeng Zang, Department of Hepatobiliary Surgery, Taizhou People's Hospital, , the Fifth Affiliated Hospital of Medical School of Nantong University, No. 210, Yingchun Road, Taizhou 225300, Jiangsu Province, China. Tel: +86-13775687933, Fax: +86-523-86225199. E-mail: xkfy1979@126.com

ABSTRACT

Aims: Cellular senescence and matrix metalloproteinases (MMPs) play an important role in liver diseases. The source and regulating factors of MMPs in senescent hepatocytes are not known. We investigated whether senescent hepatocytes secreted MMPs and if this was regulated by nuclear factor (NF)- κ B.

Materials and Methods: The TGF- α transgenic mouse hepatocyte line AML12 was treated with H₂O₂ to induce senescence. NF- κ B signaling was examined by Western blotting and luciferase reporter assays. Quantitative reverse transcription polymerase chain reaction was used to evaluated expression of MMP-2, -9 and -13.

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