

**Name of Journal:** *World Journal of Gastroenterology*

**Manuscript NO:** 48244

**Manuscript Type:** ORIGINAL ARTICLE

### *Basic Study*

**High mobility group box-1 release from H<sub>2</sub>O<sub>2</sub>-injured hepatocytes due to sirt1 functional inhibition**

Ye TJ *et al.* H<sub>2</sub>O<sub>2</sub>-injured hepatocytes release HMGB1

Ting-Jie Ye, Yan-Lin Lu, Xiao-Feng Yan, Xu-Dong Hu, Xiao-Ling Wang

### **Abstract**

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## HMGB1 release by H2O2-induced hepatocytes is regulated ...

[www.nature.com](http://www.nature.com) › [cell death discovery](#)

Apr 10, 2017 · **HMGB1 release** induced by H<sub>2</sub>O<sub>2</sub> is calcium dependent. (a) The rate of cell injury was measured using a Cytotoxicity LDH Assay Kit.(b) The cells ...

**Author:** Pei Zhao, Tingjie Ye, Xiaofeng Yan, Xu... **Publish Year:** 2017

**Author:** Pei Zhao

## High mobility group box 1 is a novel deacetylation target ...

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High mobility group box 1 (HMGB1) undergoes acetylation, nuclear-to-cytoplasmic translocation and **release** from stressed kidneys, unleashing a signaling cascade of events leading to systemic inflammation. Here we tested whether the deacetylase activity of Sirtuin1 (SIRT1) participates in ...

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## Macrophage activation by factors released from ...

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Jun 15, 2011 · The mechanisms underlying the ability of ethyl pyruvate to block **HMGB1 release** have not been established. In lung epithelial cells, ethyl pyruvate-mediated **inhibition** of **HMGB1 release** appears to be **due** to a switch from necrotic to apoptotic cell death (Lim et al., 2007). It remains to be determined if a similar mechanism is involved in the ...

**Cited by:** 74

**Author:** Ana-Cristina Dragomir, Jeffrey D. Laskin, ...

**Publish Year:** 2011

## Ethyl pyruvate inhibits the acetylation and release of ...

<https://www.sciencedirect.com/science/article/pii/S156757691630443X>

In addition, **inhibition** of **HMGB1 release** by SIRT1-mediated HMGB1 deacetylation has also been reported to protect non-alcoholic fatty liver disease in rats . These findings strongly suggest that SIRT1 activation plays an important role in the deacetylation of HMGB1 in various inflammatory disorders.

**Cited by:** 18

**Author:** Young Min Kim, Eun Jung Park, Jung Hw...

**Publish Year:** 2016

## Inhibition of High Mobility Group Box 1-Toll-Like Receptor ...

[https://www.researchgate.net/publication/295682379\\_Inhibition\\_of...](https://www.researchgate.net/publication/295682379_Inhibition_of...)

**Inhibition** of High Mobility Group Box 1-Toll-Like Receptor-4 Signaling by Glycyrrhizin Contributes to the Attenuation of Cold Ischemic Injury of Liver in a Rat Model ... SIRT1, HMGB1, autophagy ...





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## High mobility group box 1 is a novel deacetylation target ...

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High mobility group box 1 (HMGB1) undergoes acetylation, nuclear-to-cytoplasmic translocation and release from stressed kidneys, unleashing a signaling cascade of events leading to systemic inflammation. Here we tested whether the deacetylase activity of Sirtuin1 (SIRT1) participates in ...

Cited by: 66 Author: May M. Rabadi, Sandhya Xavier, Radova...  
Publish Year: 2015

## High-mobility group box 1 induces endoplasmic reticulum ...

<https://www.nature.com/articles/s41374-018-0085-9>

Jun 29, 2018 · We elucidated the mechanism by which the nuclear-damage-associated molecular pattern molecule, high-mobility group box 1 (HMGB1) was released from the impaired hepatocytes and induced endoplasmic ...

Cited by: 1 Author: Qin He, Yu Fu, Xiangming Ding, Dongxia...  
Publish Year: 2018 Author: Qin He

## High-mobility group box 1 is a novel deacetylation target ...

<https://www.sciencedirect.com/science/article/pii/S0085253815300120>

High-mobility group box 1 protein (HMGB1) is a ubiquitous 215-amino-acid nuclear protein that binds to DNA and promotes its bending, while maintaining genome stability, DNA processing, and repair, and controlling autophagy and autophagic clearance of defective mitochondria by regulating the transcription of heat-shock protein 27. 1 In addition to these intracellular homeostatic functions and ...

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Publish Year: 2015

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<https://www.ahajournals.org/doi/10.1161/strokeaha.110.590463>

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### Sirtuin 1 (Protein)

Sirtuin 1, also known as NAD-dependent deacetylase sirtuin-1, is a protein that in humans is encoded by the...