

Direct modulation of hepatocyte hepcidin signaling by iron



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## Signaling pathways regulating hepcidin

<https://pubmed.ncbi.nlm.nih.gov/30798816>

The signaling pathways and molecules described here have been shown to primarily affect hepcidin at a **transcriptional level**, but these **transcriptional** changes correlate with changes in systemic **iron** levels as well, supporting the functional effects of hepcidin regulation by these signaling pathways.

Cited by: 4

Author: Gautam Rishi, V. Nathan Subramaniam

Publish Year: 2019

## Association of Hepcidin mRNA Expression With Hepatocyte ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4286710>

The lack of hepcidin results in retained activity of ferroportin and finally affects modulation of **iron** export from cells. Hepcidin response to inflammation is mainly mediated by interleukin 6 (IL-6) which stimulates hepcidin transcription through signal transducer and activator of transcription 3 (STAT3) (14).

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Author: Katarzyna Sikorska, Tomasz Romanowsk...

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**Name of Journal:** *World Journal of Hepatology*

**Manuscript NO:** 64921

**Manuscript Type:** ORIGINAL ARTICLE

*Basic study*

**Direct modulation of hepatocyte hepcidin signaling by iron**

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Sebastian Mueller



Direct modulation of hepatocyte hepcidin signaling by iron



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Modulation of hepcidin and ferroportin expression during infection and inflammation couples iron metabolism to host defense and **decreases iron availability to invading pathogens**. This response also restricts the iron supply to erythropoietic precursors and may cause or contribute to the anemia associated with infections and inflammatory disorders.

**Author:** Tomas Ganz**Cited by:** 1020**Publish Year:** 2011[Hepcidin and iron regulation, 10 years later | Blood ...](#)[ashpublications.org/blood/article/117/17/4425/20844/Hepcidin-and-iron-regulati...](#)

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