

## MOLECULAR BIOLOGY

### Advanced Edit

~~We looked for the effects of modulation of~~The objective of our study was to determine whether ~~cytokines modulated the expression of~~ mimitin expression and ~~for mimitin-its~~ binding partners. ~~Our~~ previous studies have shown that ~~Proinflammation-proinflammatory~~ cytokines ~~change-modulate the~~ expression of several mitochondrial proteins ~~engaging-participating~~ in ATP ~~production-generation, as it~~ ~~was shown our previous studies.~~ Further, our studies on primary cultures of rat hepatocytes have ~~revealed that~~ Cytokines ~~such as interleukin (IL)-1 and IL-6 are known as for affecting-regulate~~ energy metabolism and ~~the function of~~ mitochondrial ~~function by~~ significantly inhibiting ~~of~~ ATP production and ~~utilization in a timely-time-~~ and dose-~~related-dependent manner,-was shown our previous studies of~~ primary cultures of rat hepatocytes. In this ~~studies~~study, we ~~witness-observed that increase-of the~~ levels of ~~the~~ mimitin transcript and mimitin protein ~~increased after 12 and 18 h in HepG2 cells exposed to IL-1 and IL-6 for 12 h and 18 h, respectively-of HepG2 cells exposed to IL-1 and IL-6.~~ These cytokines also ~~catalyzed-stimulated the expression of the~~ luciferase reporter gene under ~~the control by-of the~~ mimitin gene promoter. ~~It should conclude~~These observations indicate that both ~~the~~ cytokines ~~affect~~ ~~regulate~~ mimitin gene expression ~~in-at the~~ transcriptional level.

**Comment [A1]:** This sentence has been rephrased to convey its meaning more effectively.

**Comment [A2]:** "Catalyzed" is typically used only in reference to enzyme action. Its use in this context is not appropriate. Please let me know if my revision does not convey your intended meaning.

Source: [Mimitin – a novel cytokine-regulated mitochondrial protein](#) by Paulina Wegrzyn, Stephen J Yarwood, Nathalie Fiegler, et al. used under [CC-BY](#).