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 ~~C~~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.