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ONLINE ISSN : 1880-313X

PRINT ISSN : 0388-6107

**Biomedical Research**

Vol. 29 (2008) , No. 2 April pp.93-98

[\[PDF \(1436K\)\]](#) [\[References\]](#)**Circadian expression of 86- and 84-kDa heat shock proteins in the mouse suprachiasmatic nucleus**Tsuyoshi FUKUYAMA<sup>1)</sup>, Masao DOI<sup>1)2)</sup>, Masahiro MATSUO<sup>1)2)</sup>, Hiromi NISHINAGA<sup>1)2)</sup>, Shigeru MIYAKE<sup>1)</sup> and Hitoshi OKAMURA<sup>1)2)</sup>

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(Received December 27, 2007)

(Accepted January 7, 2008)

**ABSTRACT**

Circadian rhythm pervades in many aspects of the biological processes including basic cellular functions. Here we examined the circadian gene expression of two forms of 90 kDa heat shock proteins referred to HSP86 and HSP84 in the mouse suprachiasmatic nucleus, the circadian center. In both light-dark, and constant dark conditions, *Hsp86* mRNA showed an overt circadian rhythm showing a peak at (subjective) night and a trough at (subjective) day. *Hsp84* mRNA also showed the similar expression profile, but the amplitude was weaker. These results indicate that gene expression of molecular chaperone such as *Hsp86* and *Hsp84* are regulated by the circadian clock.

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Tsuyoshi FUKUYAMA, Masao DOI, Masahiro MATSUO, Hiromi NISHINAGA, Shigeru MIYAKE and Hitoshi OKAMURA; "Circadian expression of 86- and 84-kDa heat shock proteins in the mouse suprachiasmatic nucleus", *Biomedical Research*, Vol. **29**, pp.93-98

(2008) .

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doi:10.2220/biomedres.29.93

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