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[\[PDF \(136K\)\]](#) [\[References\]](#)**Expression of ubiquitin-related enzymes in the suprachiasmatic nucleus with special reference to ubiquitin carboxy-terminal hydrolase UchL1**Xin DONG¹⁾, Kazuhiro YAGITA¹⁾, Jing ZHANG¹⁾ and Hitoshi OKAMURA¹⁾

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ABSTRACT

There is growing evidence that ubiquitin-proteasome system plays an important role for the generation of circadian rhythms in mice as in *Drosophila*. Here we examined the expression of ubiquitin-related enzymes (Ubc5, UbcM4, Ube2v, Ube2d2, UchL1, UchL3, Ubp41, Ufd1L, β -TrCP) in the suprachiasmatic nucleus (SCN). At mRNA level, the expression of these enzymes were faint to moderate except ubiquitin carboxy-terminal hydrolase L1 (UchL1), a dominant deubiquitinating salvaging enzyme. Although strongly expressed in the SCN, UchL1 mRNA did not show the rhythm in the SCN in both light-dark and constant dark conditions.

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