## Accepted Manuscript

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PII: S0304-3940(18)30263-5

DOI: https://doi.org/10.1016/j.neulet.2018.04.008

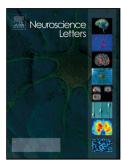
Reference: NSL 33531

To appear in: Neuroscience Letters

Received date: 20-12-2017 Revised date: 14-3-2018 Accepted date: 3-4-2018

Please cite this article as: Meina Wu, Fang Zhou, Xiuli Cao, Junting Yang, Yu Bai, Xudong Yan, Jimin Cao, Jinshun Qi, Abnormal circadian locomotor rhythms and Per gene expression in six-month-old triple transgenic mice model of Alzheimer's disease, Neuroscience Letters https://doi.org/10.1016/j.neulet.2018.04.008

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### ACCEPTED MANUSCRIPT

Abnormal circadian locomotor rhythms and *Per* gene expression in six-month-old triple transgenic mice model of Alzheimer's disease

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## Highlights

- 3xTg-AD mice exhibit behavioral circadian rhythm disturbance (CRD) at the age of six months.
- Female 3xTg-AD mice show obviously less CRD compared with the male 3xTg-AD mice.
- CRD observed in 3xTg-AD mice is at least partly associated with the alteration of *Per1* and *Per2* transcription patterns in the SCN.

#### **Abstract**

Circadian rhythm disturbance (CRD) is one of the iconic manifestations in Alzheimer's disease (AD), a disease tightly associated with age, but the characteristics and gender difference of CRD occurred in AD have not been well demonstrated. Using 6-month-old

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