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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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