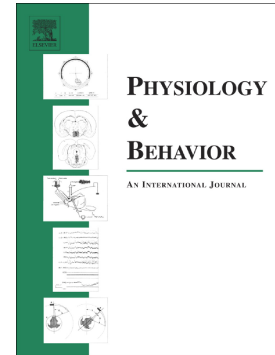


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Exposure to short photoperiod regime reduces ventral subicular lesion-induced anxiety-like behavior in Wistar rats

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Highlights

- Ventral subicular lesion (VSL) causes anxiety-like behavior in adult Wistar rats.
- VSL leads to neuronal loss in the paraventricular, suprachiasmatic and dorsomedial nuclei of the hypothalamus.
- Short photoperiod regime for 21 days ameliorates anxiety-like behavior in VSL rats.

Abstract

Neurodegeneration of hippocampal structures is implicated in Alzheimer's disease (AD). Patients with AD exhibit 'sundown syndrome' featuring mood swings and anxiety. Although there are studies demonstrating circadian rhythm disruption associated with sundown phenomenon, the mechanisms underlying the emotional disturbances remain elusive. In the

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