



Cover: Circadian systems have evolved to temporally coordinate an animal's physiology with environmental cycles. Although circadian rhythms have been described in a variety of insect species, the praying mantis has received limited attention. Schirmer, Prete and colleagues (pp. 3853–3861) used a multilevel experimental approach to assess whether circadian rhythms modulate the visual physiology and behavior of the praying mantis *Hierodula patellifera* (pictured). The results of these experiments suggest that circadian rhythms are widespread and operate at the cellular, cellular systems and organismal levels in this species. Photo credit: Joe Davis, Northeastern Illinois University.

INSIDE JEB

- 3767** Running birds prioritise safety on uneven terrain; Double pole cross-country skiing more like sliding run; Bumblebees ration energy use when oxygen is low; French grunts grind teeth

OUTSIDE JEB

- 3770** The kangaroo's fifth leg; Electric fish confront the paradox of selfhood; Anthropogenic pollutants disturb moth navigation; Energy availability drives timing of moult in a songbird

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