



Cover: An exaggerated nose-leaf is a distinguishing feature of bat species that produce echolocation signals consisting of both constant-frequency (CF) and frequency-modulated (FM) units. Other than the well-known Doppler shift compensation ability, any other potential benefit of the CF–FM signal was unknown in these bats. Lu et al. (jeb225284) provide evidence that two species of CF–FM bats, *Hipposideros armiger* and *Hipposideros pratti* (pictured), are able to differentially modulate the amplitude of the CF and FM units in the presence of masking noise, a process that, until now, has been observed only for human speech. Photo credit: Quan Zhou.

INSIDE JEB

Serotonin key for trap-jaw ant aggression

Knight, K.

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Real-world recreation makes a difference for brown anole lizards

Knight, K.

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OUTSIDE JEB

A mucous house built for feeding

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jeb214544

Bats pay the price for crying out loud

Evans, A.

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Andean condors take cheap flights

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Wasps choose their battles wisely

Lesser, E.

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A beach festival isn't a sound idea to fish

Ruhr, I.

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Artificial lighting impairs mate attraction in a nocturnal capital breeder

Stewart, A. J. A., Perl, C. D. and Niven, J. E.

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Humming hummingbirds, insect flight tones and a model of animal flight sound

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Friend or foe? Effects of host immune activation on the gut microbiome in the caterpillar *Manduca sexta*

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Additive effects of temperature and water availability on pregnancy in a viviparous lizard

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Echolocating bats exhibit differential amplitude compensation for noise interference at a sub-call level

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Serotonergic control in initiating defensive responses to unexpected tactile stimuli in the trap-jaw ant *Odontomachus kuroi*wae

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Ecologically relevant thermal fluctuations enhance offspring fitness: biological and methodological implications for studies of thermal developmental plasticity

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A highly stable, non-digestible lectin from *Pomacea diffusa* unveils clade-related protection systems in apple snail eggs

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