



Cover: A spearing mantis shrimp (Stomatopoda: *Lysiosquilla maculata*) extends its rapidly rotating raptorial appendages to capture evasive prey, such as this yellow-tail damselfly nymph. Mantis shrimp use a spectacular diversity of raptorial appendage morphologies and kinematics to capture and crush prey. McHenry et al. (pp. 3399-3411) analyzed the hydrodynamics of raptorial striking across mantis shrimp using both blade element and computational fluid dynamic analyses. Across the clade, the hydrodynamics are minimally affected by shape and instead are strongly impacted by size, kinematics and, to a lesser extent, the orientation of the stabbing dactyl. Photo credit: Roy Caldwell.

INSIDE JEB

- 3309** How thorny devils tap damp sand to slake thirst; Cooperative ants are more than the sum of their parts; Drag has not shaped mantis shrimp weapons; Chestnut-crowned babblers huddle for comfort

OUTSIDE JEB

- 3312** Fireflies' contrast-enhanced colored lights; What's on the vibrissa abscissa?; Bumblebees have a sweet tooth; Salmon versus dilbit: it's a matter of the heart

SHORT COMMUNICATION

- 3315** Hydrodynamic properties of fin whale flippers predict maximum rolling performance
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- 3329** Vision on the high seas: spatial resolution and optical sensitivity in two procellariiform seabirds with different foraging strategies
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- 3339** Object approach computation by a giant neuron and its relationship with the speed of escape in the crab *Neohelice oliva*, D. and Tomsic, D.
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- 3391** Annual life-stage regulation of lipid metabolism and storage and association with PPARs in a migrant species: the gray catbird (*Dumetella carolinensis*)
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- 3399** The comparative hydrodynamics of rapid rotation by predatory appendages
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- 3412** The opening–closing rhythms of the subelytral cavity associated with gas exchange patterns in diapausing Colorado potato beetle, *Leptinotarsa decemlineata*
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