

▼ **Inside JEB**

Hairy Crickets Detect Sneaky Predators i; Struggling Upstream i; Virtual Reality Lab Rats Are On The Ball ii; Homeward Bound iii

Outside JEB

Can Flies Tell The Time? iv; Snakes Eating More Than Their Tails v; Eel's Unique Urea Transporter Exposed v; Competing Memories vi; Master Of Mitochondrial Number vii

Book Review

Graham, J. B. A Chondrichthyan compendium. 419-420

Research Articles

► **Castro-Santos, T.** Optimal swim speeds for traversing velocity barriers: an analysis of volitional high-speed swimming behavior of migratory fishes. 421-432

Jiang, D., Tresser, J. W., Horie, T., Tsuda, M. and Smith, W. C. Pigmentation in the sensory organs of the ascidian larva is essential for normal behavior. 433-438

Doke, J., Donelan, J. M. and Kuo, A. D. Mechanics and energetics of swinging the human leg. 439-445

Sun, M. and Xiong, Y. Dynamic flight stability of a hovering bumblebee. 447-459

► **Dangles, O., Magal, C., Pierre, D., Olivier, A. and Casas, J.** Variation in morphology and performance of predator-sensing system in wild cricket populations. 461-468

► **Gagliardo, A., Odetti, F. and Ioalè, P.** Factors reducing the expected deflection in initial orientation in clock-shifted homing pigeons. 469-478

Vetter, A. E. and O'Grady, S. M. Sodium and anion transport across the avian uterine (shell gland) epithelium. 479-486

Kleinke, T., Wagner, S., John, H., Hewett-Emmett, D., Parkkila, S., Forssmann, W.-G. and Gros, G. A distinct carbonic anhydrase in the mucus of the colon of humans and other mammals. 487-496

Li, P., Temple, S., Gao, Y., Haimberger, T. J., Hawryshyn, C. W. and Li, L. Circadian rhythms of behavioral cone sensitivity and long wavelength opsin mRNA expression: a correlation study in zebrafish. 497-504

Kádár, E., Costa, V., Santos, R. S. and Lopes, H. Behavioural response to the bioavailability of inorganic mercury in the hydrothermal mussel *Bathymodiolus azoricus*. 505-513

McClelland, G. B., Dalziel, A. C., Fragoso, N. M. and Moyes, C. D. Muscle remodeling in relation to blood supply: implications for seasonal changes in mitochondrial enzymes. 515-522

Iwamoto, M., Sugino, K., Allen, R. D. and Naitoh, Y. Cell volume control in *Paramecium*: factors that activate the control mechanisms. 523-537

Winter, Y. and Stich, K. P. Foraging in a complex naturalistic environment: capacity of spatial working memory in flower bats. 539-548

Barton, B., Ayer, G., Heymann, N., Maughan, D. W., Lehmann, F.-O. and Vigoreaux, J. O. Flight muscle properties and aerodynamic performance of *Drosophila* expressing a *flightin* transgene. 549-560

► **Hölscher, C., Schnee, A., Dahmen, H., Setia, L. and Mallot, H. A.** Rats are able to navigate in virtual environments. 561-569

Król, E., Redman, P., Thomson, P. J., Williams, R., Mayer, C., Mercer, J. G. and Speakman, J. R. Effect of photoperiod on body mass, food intake and body composition in the field vole, *Microtus agrestis*. 571-584

► Article featured 'Inside JEB'