

The Journal of
**Experimental
Biology**

Contents Volume 207 (20) 2004

▼Inside JEB

**Keeping A Toe Hold i; Wherefore Art Thou, Romeo? i;
View To A Krill ii; *Drosophila* Lose Their Boost iii**

Commentary

Ordway, G. A. and Garry, D. J. Myoglobin: an essential hemoprotein in striated muscle. 3441-3446

Review Article

Bartels, H. and Potter, I. C. Cellular composition and ultrastructure of the gill epithelium of larval and adult lampreys. Implications for osmoregulation in fresh and seawater. 3447-3462

Research Articles

Maruska, K. P. and Tricas, T. C. Test of the mechanotactile hypothesis: neuromast morphology and response dynamics of mechanosensory lateral line primary afferents in the stingray. 3463-3476

Gibbs, A. G. and Johnson, R. A. The role of discontinuous gas exchange in insects: the chthonic hypothesis does not hold water. 3477-3482

Young, B. A., Dunlap, K., Koenig, K. and Singer, M. The buccal buckle: the functional morphology of venom spitting in cobras. 3483-3494

Liao, J. C. Neuromuscular control of trout swimming in a vortex street: implications for energy economy during the Kármán gait. 3495-3506

Dutto, D. J., Hoyt, D. F., Cogger, E. A. and Wickler, S. J. Ground reaction forces in horses trotting up an incline and on the level over a range of speeds. 3507-3514

► **Zumstein, N., Forman, O., Nongthomba, U., Sparrow, J. C. and Elliott, C. J. H.** Distance and force production during jumping in wild-type and mutant *Drosophila melanogaster*. 3515-3522

► **Deily, J. A. and Schul, J.** Recognition of calls with exceptionally fast pulse rates: female phonotaxis in the genus *Neoconocephalus* (Orthoptera: Tettigoniidae). 3523-3529

► **Rinkevich, B. and Yankelevich, I.** Environmental split between germ cell parasitism and somatic cell synergism in chimeras of a colonial urochordate. 3531-3536

► **Nevitt, G., Reid, K. and Trathan, P.** Testing olfactory foraging strategies in an Antarctic seabird assemblage. 3537-3544

Griffin, T. M., Main, R. P. and Farley, C. T. Biomechanics of quadrupedal walking: how do four-legged animals achieve inverted pendulum-like movements? 3545-3558

Henry, J. R. and Harrison, J. F. Plastic and evolved responses of larval tracheae and mass to varying atmospheric oxygen content in *Drosophila melanogaster*. 3559-3567

Werth, A. J. Models of hydrodynamic flow in the bowhead whale filter feeding apparatus. 3569-3580

Tierney, M. L., Osborn, K. E., Milburn, P. J., Stowell, M. H. B. and Howitt, S. M. Phylogenetic conservation of disulphide-linked, dimeric acetylcholine receptor pentamers in southern ocean electric rays. 3581-3590

Smith, M. E., Kane, A. S. and Popper, A. N. Acoustical stress and hearing sensitivity in fishes: does the linear threshold shift hypothesis hold water? 3591-3602

Rogers, S. M., Matheson, T., Sasaki, K., Kendrick, K., Simpson, S. J. and Burrows, M. Substantial changes in central nervous system neurotransmitters and neuromodulators accompany phase change in the locust. 3603-3617

Shashar, N., Sabbah, S. and Cronin, T. W. Transmission of linearly polarized light in seawater: implications for polarization signaling. 3619-3628

► Article featured 'Inside JEB'