

## Contents Volume 208 (17) 2005

### ▼Inside JEB

**Mosquitoes' Drinking Problem i; Clicking Porpoises Get Their Bearings ii; Leaping Birds Spring Into Action iii**

### Outside JEB

**Science To Get One's Teeth Into iv; Genes For The Long Run v; A Cinderella Story v; Python's Hearty Meal vi; Eat Little, Die Late? vii; Salty Worms? vii**

### Review Article

**Burggren, W. W. and Monticino, M. G.** Assessing physiological complexity. 3221-3232

### Research Articles

**Lehrer, M. and Campan, R.** Generalization of convex shapes by bees: what are shapes made of? 3233-3247

**Brainerd, E. L. and Azizi, E.** Muscle fiber angle, segment bulging and architectural gear ratio in segmented musculature. 3249-3261

**del Pilar Corena, M., VanEkeris, L., Salazar, Ma. I., Bowers, D., Fiedler, M. M., Silverman, D., Tu, C. and Linser, P. J.** Carbonic anhydrase in the adult mosquito midgut. 3263-3273

**Felder, A., Ward, S. R. and Lieber, R. L.** Sarcomere length measurement permits high resolution normalization of muscle fiber length in architectural studies. 3275-3279

►**Coast, G. M., Garside, C. S., Webster, S. G., Schegg, K. M. and Schooley, D. A.** Mosquito natriuretic peptide identified as a calcitonin-like diuretic hormone in *Anopheles gambiae* (Giles). 3281-3291

►**Henry, H. T., Ellerby, D. J. and Marsh, R. L.** Performance of guinea fowl *Numida meleagris* during jumping requires storage and release of elastic energy. 3293-3302

**Messinger, D. I., Kutz, K. K., Le, T., Verley, D. R., Hsu, Y.-W. A., Ngo, C. T., Cain, S. D., Birmingham, J. T., Li, L. and Christie, A. E.** Identification and characterization of a tachykinin-containing neuroendocrine organ in the commissural ganglion of the crab *Cancer productus*. 3303-3319

**Tattersall, G. J. and Gerlach, R. M.** Hypoxia progressively lowers thermal gaping thresholds in bearded dragons, *Pogona vitticeps*. 3321-3330

**Munns, S. L., Hartzler, L. K., Bennett, A. F. and Hicks, J. W.** Terrestrial locomotion does not constrain venous return in the American alligator, *Alligator mississippiensis*. 3331-3339

**Lorenzon, S., Edomi, P., Giulianini, P. G., Mettulio, R. and Ferrero, E. A.** Role of biogenic amines and cHH in the crustacean hyperglycemic stress response. 3341-3347

**Vickerstaff, R. J. and Di Paolo, E. A.** Evolving neural models of path integration. 3349-3366

**Schmidt, M.** Hind limb proportions and kinematics: are small primates different from other small mammals? 3367-3383

►**Verfuß, U. K., Miller, L. A. and Schnitzler, H.-U.** Spatial orientation in echolocating harbour porpoises (*Phocoena phocoena*). 3385-3394

**Gussekloo, S. W. S. and Bout, R. G.** The kinematics of feeding and drinking in palaeognathous birds in relation to cranial morphology. 3395-3407

**Gussekloo, S. W. S. and Bout, R. G.** Cranial kinesis in palaeognathous birds. 3409-3419

**Henninger, H. P. and Watson, W. H., III.** Mechanisms underlying the production of carapace vibrations and associated waterborne sounds in the American lobster, *Homarus americanus*. 3421-3429

►Article featured 'Inside JEB'