

Contents Volume 207 (26) 2004

▼Inside JEB

**Underwater Glue i; Protein-Recycling Woodchucks i;
Manganese Reveals All ii; Blindingly Cold iii**

Book Review

Woods, A. A bug's strife: abiotic angst in the microcosmos. 4489-4490

Review Article

Weihrauch, D., Morris, S. and Towle, D. W. Ammonia excretion in aquatic and terrestrial crabs. 4491-4504

Research Articles

Ishii, Y., Watari, T. and Tsuchiya, T. Enhancement of twitch force by stretch in a nerve-skeletal muscle preparation of the frog *Rana porosa brevipoda* and the effects of temperature on it. 4505-4513

Nickel, M. Kinetics and rhythm of body contractions in the sponge *Tethya wilhelma* (Porifera: Demospongidae). 4515-4524

► **Reidy, S. P. and Weber, J.-M.** Metabolism of normothermic woodchucks during prolonged fasting. 4525-4533

Crisp, K. M. and Mesce, K. A. A cephalic projection neuron involved in locomotion is dye coupled to the dopaminergic neural network in the medicinal leech. 4535-4542

► **Herberholz, J., Mims, C. J., Zhang, X., Hu, X. and Edwards, D. H.** Anatomy of a live invertebrate revealed by manganese-enhanced Magnetic Resonance Imaging. 4543-4550

Banta, M. R., Lynott, A. J., VanSant, M. J. and Bakken, G. S. Partitioning heat loss from mallard ducklings swimming on the air-water interface. 4551-4557

Seron, T. J., Hill, J. and Linser, P. J. A GPI-linked carbonic anhydrase expressed in the larval mosquito midgut. 4559-4572

Radford, J. C., Terhzaz, S., Cabrero, P., Davies, S.-A. and Dow, J. A. T. Functional characterisation of the *Anopheles* leucokinins and their cognate G-protein coupled receptor. 4573-4586

Hart, N. S., Lisney, T. J., Marshall, N. J. and Collin, S. P. Multiple cone visual pigments and the potential for trichromatic colour vision in two species of elasmobranch. 4587-4594

Pavlova, E. L., Popova, L. B., Orlovsky, G. N. and Deliagina, T. G. Vestibular compensation in lampreys: restoration of symmetry in reticulospinal commands. 4595-4603

Hiong, K. C., Peh, W. Y. X., Loong, A. M., Wong, W. P., Chew, S. F. and Ip, Y. K. Exposure to air, but not seawater, increases the glutamine content and the glutamine synthetase activity in the marsh clam *Polymesoda expansa*. 4605-4614

Raja, G., Mills, S., Palmer, T. N. and Fournier, P. A. Lactate availability is not the major factor limiting muscle glycogen repletion during recovery from an intense sprint in previously active fasted rats. 4615-4621

Weihrauch, D., McNamara, J. C., Towle, D. W. and Onken, H. Ion-motive ATPases and active, transbranchial NaCl uptake in the red freshwater crab, *Dilocarcinus pagei* (Decapoda, Trichodactylidae). 4623-4631

► **Kiss, A. J., Mirarefi, A. Y., Ramakrishnan, S., Zukoski, C. F., DeVries, A. L. and Cheng, C.-H. C.** Cold-stable eye lens crystallins of the Antarctic nototheniid toothfish *Dissostichus mawsoni* (Norman). 4633-4649

Tu, M. S. and Daniel, T. L. Submaximal power output from the dorsolongitudinal flight muscles of the hawkmoth *Manduca sexta*. 4651-4662

Ando, H. and Kuwasawa, K. Neuronal and neurohormonal control of the heart in the stomatopod crustacean, *Squilla oratoria*. 4663-4677

Lovvorn, J. R., Watanuki, Y., Kato, A., Naito, Y. and Liggins, G. A. Stroke patterns and regulation of swim speed and energy cost in free-ranging Brünnich's guillemots. 4679-4695

Hall, J. R., MacCormack, T. J., Barry, C. A. and Driedzic, W. R. Sequence and expression of a constitutive, facilitated glucose transporter (GLUT1) in Atlantic cod *Gadus morhua*. 4697-4706

Maybury, W. J. and Lehmann, F.-O. The fluid dynamics of flight control by kinematic phase lag variation between two robotic insect wings. 4707-4726

► **Stewart, R. J., Weaver, J. C., Morse, D. E. and Waite, J. H.** The tube cement of *Phragmatopoma californica*: a solid foam. 4727-4734

Pepeis, P. P. L. M., Wendelaar Bonga, S. E. and Balm, P. H. M. Bacterial lipopolysaccharide (LPS) modulates corticotropin-releasing hormone (CRH) content and release in the brain of juvenile and adult tilapia (*Oreochromis mossambicus*; Teleostei) (Erratum). 4735

► Article featured 'Inside JEB'