The Journal of Experimental Biology

J. E. TREHERNE

WITH W. A. FOSTER & P. K. SCHOFIELD

	PAGE
CARROLL, LESLIE S., CARROW, GRANT M. AND CALABRESE, RONALD L. Localization and release of FMRFamide-like immunoreactivity in the cerebral neuroendocrine system of <i>Manduca sexta</i> .	1
Arechiga, H., Chiquet, M., Kuffler, D. P. and Nicholls, J. G. Formation of specific connections in culture by identified leech neurones containing serotonin, acetylcholine and peptide transmitters.	15
BOUTILIER, R. G., GLASS, M. L. AND HEISLER, N. The relative distribution of pulmocutaneous blood flow in <i>Rana catesbeiana</i> : effects of pulmonary or cutaneous hypoxia	33
CLAIBORNE, J. B. AND HEISLER, N. Acid-base regulation and ion transfers in the carp (Cyprinus carpio): pH compensation during graded long- and short-term environmental hypercapnia, and the effect of bicarbonate infusion	41
MARSH, RICHARD L. AND BENNETT, ALBERT F. Thermal dependence of contractile properties of skeletal muscle from the lizard <i>Sceloporus occidentalis</i> with comments on methods for fitting and comparing force-velocity curves.	63
MARSH, RICHARD L. AND BENNETT, ALBERT F. Thermal dependence of sprint performance of the lizard Sceloporus occidentalis	79
MORISAWA, SACHIKO AND MORISAWA, MASAAKI. Acquisition of potential for sperm motility in rainbow trout and chum salmon.	89
HELLER, KLAUS-GERHARD. Warm-up and stridulation in the bushcricket, Hexacentrus unicolor Serville (Orthoptera, Conocephalidae, Listroscelidinae)	97
OKA, TAKASHI, NAKOAKA, YASUO AND OOSAWA, FUMIO. Changes in membrane potential during adaptation to external potassium ions in <i>Paramecium caudatum</i>	111
O'Donnell, M. J. Action potentials in <i>Rhodnius</i> oocytes: repolarization is sensitive to potassium channel blockers	119
BOUTILIER, R. G. AND SHELTON, G. Gas exchange, storage and transport in voluntarily diving Xenopus laevis	133
Neil, Douglas M. and Miyan, Jaleel A. Phase-dependent modulation of auxiliary swimmeret muscle activity in the equilibrium reactions of the Norway lobster, <i>Nephrops norvegicus</i> L	157
MIYAN, JALEEL A. AND NEIL, DOUGLAS M. Swimmeret proprioceptors in the lobsters Nephrops norvegicus L. and Homarus gammarus L	181
Webber, D. M. and O'Dor, R. K. Monitoring the metabolic rate and activity of free-swimming squid with telemetered jet pressure	205
AXELSSON, MICHAEL AND NILSSON, STEFAN. Blood pressure control during exercise in the Atlantic	225

WAINWRIGHT, PETER C. Motor correlates of learning behaviour: feeding on novel prey by pumpkinseed sunfish (Lepomis gibbosus)	237
CONLEY, KEVIN E. AND PORTER, WARREN P. Heat loss from deer mice (<i>Peromyscus</i>): evaluation of seasonal limits to thermoregulation	249
WOOD, CHRIS M., BOUTILIER, R. G. AND RANDALL, D. J. The physiology of dehydration stress in the land crab, Cardisoma carnifex: respiration, ionoregulation, acid-base balance and nitrogenous	
Waste excretion	271
BEAL, A. M. Effects of flow rate, duration of stimulation and mineralocorticoids on the electrolyte concentrations of mandibular saliva from the red kangaroo (Macropus rufus)	315
STEPHENSON, R., BUTLER, P. J. AND WOAKES, A. J. Diving behaviour and heart rate in tufted ducks (Aythya fuligula)	341
RIEGEL, J. A. The absence of an arterial pressure effect on filtration by perfused glomeruli of the hagfish, <i>Eptatretus stouti</i> (Lockington)	361
KUTERBACH, DEBORAH A. AND WALCOTT, BENJAMIN. Iron-containing cells in the honey-bee (Apis mellifera). I. Adult morphology and physiology	375
KUTERBACH, DEBORAH A. AND WALCOTT, BENJAMIN. Iron-containing cells in the honey-bee (Apis mellifera). II. Accumulation during development	389
EVANS, PETER D. AND MYERS, CAMILLA M. The modulatory actions of FMRFamide and related peptides on locust skeletal muscle	403
BRACKENBURY, J. H. Blood gases and respiratory pattern in exercising fowl: comparison in normoxic and hypoxic conditions	423
HIGUCHI, TAKASHIRO, NAKAMURA, HIROYUKI, SAWAUCHI, KATSUHIKO AND OKUMURA, HIROSHI. Withdrawal reflex and conduction block in the giant axons of a sabellid worm (Pseudopotamilla occelata)	433
SILLAR, KEITH T. AND ELSON, ROBERT C. Slow active potentials in walking-leg motor neurones triggered by non-spiking proprioceptive afferents in the crayfish	445
PINDER, ALAN W. AND BURGGREN, WARREN W. Ventilation and partitioning of oxygen uptake in the frog Rana pipiens: effects of hypoxia and activity	453
MALLEFET, J. AND BAGUET, F. Oxygen consumption and luminescence of Maurolicus photophores stimulated by potassium cyanide	469
ALDRIDGE, H. D. J. N. Kinematics and aerodynamics of the greater horseshoe bat, <i>Rhinolophus ferrumequinum</i> , in horizontal flight at various flight speeds	479
WRIGHT, PATRICIA, HEMING, TOM AND RANDALL, DAVID. Downstream pH changes in water flowing over the gills of rainbow trout	499
SHORT COMMUNICATIONS	
MUNTZ, W. R. A. The spectral sensitivity of Nautilus pompilius	513
Funk, G. D., Webb, C. L. and Milsom, W. K. Non-invasive measurement of respiratory tidal volume in aquatic, air-breathing animals	519
TAUTZ, JURGEN AND HAMM, IRIS. Interneurones sensitive to water vibrations in the second abdominal ganglion of the crayfish	525
EUSEBIO, EMMANUEL J. AND MOODY, WILLIAM J. Calcium-dependent action potentials in the prothoracic gland of Manduca sexta	531
INDEX TO VOLUMES 120 to 126	i

The Company of Biologists Limited 1986

Department of Zoology, University of Cambridge, Downing Street, Cambridge CB2 3EJ

ISSN: 0022-0949

© The Company of Biologists Limited 1986