

The Journal of Experimental Biology

EDITED BY

V. B. WIGGLESWORTH and J. A. RAMSAY

Contents

	PAGE
BURROWS, M. and HORRIDGE, G. A. The action of the eyecup muscles of the crab, <i>Carcinus</i> , during optokinetic movements	223
BURROWS, M. and HORRIDGE, G. A. Motoneurone discharges to the eyecup muscles of the crab <i>Carcinus</i>	251
HORRIDGE, G. A. and BURROWS, M. Tonic and phasic systems in parallel in the eyecup responses of the crab <i>Carcinus</i>	269
BURROWS, M. and HORRIDGE, G. A. Eyecup withdrawal in the crab, <i>Carcinus</i> , and its interaction with the optokinetic response	285
HORRIDGE, G. A. and BURROWS, M. The onset of the fast phase in the optokinetic response of the crab, <i>Carcinus</i>	299
HORRIDGE, G. A. and BURROWS, M. Efferent copy and voluntary eyecup movement in the crab, <i>Carcinus</i>	315
FLETCHER, G. L. and HOLMES, W. N. Observations on the intake of water and electrolytes by the duck (<i>Anas platyrhynchos</i>) maintained on fresh water and on hypertonic saline	325
USHERWOOD, P. N. R. and MACHILI, P. Pharmacological properties of excitatory neuromuscular synapses in the locust	341
ANDERSON, MARGARET. Electrophysiological studies on initiation and reversal of the heart beat in <i>Ciona intestinalis</i>	363
MACKIE, G. O. Electrical activity in the hydroid <i>Cordylophora</i>	387
WELLS, M. J. and YOUNG, J. Z. Changes in textural preferences in <i>Octopus</i> after lesions	401
YOUNG, J. Z. Reversal of a visual preference in <i>Octopus</i> after removal of the vertical lobe	413
RUNION, H. I. and USHERWOOD, P. N. R. Tarsal receptors and leg reflexes in the locust and grasshopper	421
LENFANT, CLAUDE and JOHANSEN, KJELL. Respiration in the African lungfish <i>Protopterus aethiopicus</i> . I. Respiratory properties of blood and normal patterns of breathing and gas exchange	437
JOHANSEN, KJELL and LENFANT, CLAUDE. Respiration in the African lungfish <i>Protopterus aethiopicus</i> . II. Control of breathing	453
ELLENBY, C. Desiccation survival of the infective larva of <i>Haemonchus contortus</i>	469

Published for The Company of Biologists Limited

CAMBRIDGE UNIVERSITY PRESS

BENTLEY HOUSE, 200 EUSTON ROAD, LONDON, N.W.1

AMERICAN BRANCH: 32 EAST 57TH STREET, NEW YORK, N.Y.10022

Price 30s. net (U.S.A. \$5.00). Subscription per volume 80s. (U.S.A. \$14.00)

Published bi-monthly. Second class postage paid at New York, N.Y.