

The Journal of Experimental Biology

EDITED BY

V. B. WIGGLESWORTH and J. A. RAMSAY

Contents

	PAGE
MADDELL, S. H. P. Excretion in the blood-sucking bug, <i>Rhodnius prolixus</i> Stål. III. The control of the release of the diuretic hormone	459
MAKINGS, P. 'Slifer's patches' and the thermal sense in Acrididae (Orthoptera)	473
MEADOWS, P. S. Experiments on substrate selection by <i>Corophium</i> species: films and bacteria on sand particles	499
DAVEY, K. G. and TREHERNE, J. E. Studies on crop function in the cockroach (<i>Periplaneta americana</i> L.). III. Pressure changes during feeding and crop-emptying	513
PYE, J. D. Nervous control of chromatophores in teleost fishes. I. Electrical stimulations in the minnow (<i>Phoxinus phoxinus</i> (L.))	525
PYE, J. D. Nervous control of chromatophores in teleost fishes. II. The influence of certain drugs in the minnow (<i>Phoxinus phoxinus</i> (L.))	535
PYE, J. D. Nervous control of chromatophores in teleost fishes. III. Local temperature responses in the minnow (<i>Phoxinus phoxinus</i> (L.))	543
PYE, J. D. Nervous control of chromatophores in teleost fishes. IV. A comparative survey of local temperature responses	553
FRASER ROWELL, C. H. Central control of an insect segmental reflex. I. Inhibition by different parts of the central nervous system	559
DOMROESE, K. A. and GILBERT, L. I. The role of lipid in adult development and flight-muscle metabolism in <i>Hyalophora cecropia</i>	573
POTTS, W. T. W. and PARRY, G. Sodium and chloride balance in the prawn, <i>Palaemonetes varians</i>	591
DICKMANN, Z. and DZIUK, P. J. Sperm penetration of the zona pellucida of the pig egg	603
STADDON, B. W. Water balance in <i>Corixa dentipes</i> (Thoms.) (Hemiptera, Heteroptera)	609
WELLS, M. J. Detour experiments with octopuses	621
PASSANO, L. M. and McCULLOUGH, C. B. Co-ordinating systems and behaviour in <i>Hydra</i> . I. Pacemaker system of the periodic contractions	643
TODD, M. E. Osmotic balance in <i>Hydrobia ulvae</i> and <i>Potamopyrgus jenkinsi</i> (Gastropoda: Hydrobiidae)	665

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 22, N.Y.