

The Journal of Experimental Biology

EDITED BY

V. B. WIGGLESWORTH and J. A. RAMSAY

Contents

	PAGE
KOPOWITZ, H. and EWER, D. W. Observations on the myo-neural physiology of a Polyclad flatworm: Inhibitory systems	1
RUNION, H. I. and PIPA, R. L. Electrophysiological and endocrinological correlates during the metamorphic degeneration of a muscle fibre in <i>Galleria Mellonella</i> (L.) (Lepidoptera)	9
OKASHA, A. Y. K., HASSANEIN, A. M. M. and FARAHAT, A. Z. Effects of sub-lethal high temperature on an insect, <i>Rhodnius Prolixus</i> (Stål.). IV. Egg Formation, Oviposition and Sterility	25
OKASHA, A. Y. K. Effects of sub-lethal high temperature on an insect, <i>Rhodnius Prolixus</i> (Stål.). V. A possible mechanism of the inhibition of reproduction	37
HILL, B. J. and POTTER, I. C. Oxygen consumption in ammocoetes of the Lamprey <i>Ichthyomyzon Hubbsi</i> Raney	47
POTTER, I. C., HILL, B. J. and GENTLEMAN, SUSAN. Survival and behaviour of ammocoetes at low oxygen tensions	59
SMITH, RALPH I. Chloride regulation at low salinities by <i>Nereis Diversicolor</i> (Annelida, Polychaeta). I. Uptake and exchanges of chloride	75
SMITH, RALPH I. Chloride regulation at low salinities by <i>Nereis Diversicolor</i> (Annelida, Polychaeta). II. Water fluxes and apparent permeability to water	93
SMITH, RALPH I. Hypo-osmotic urine in <i>Nereis Diversicolor</i>	101
TREHERNE, J. E., LANE, N. J., MORETON, R. B. and PICHON, Y. A quantitative study of potassium movements in the central nervous system of <i>Periplaneta Americana</i>	109
MCKAY, J. M. Central Control of an insect sensory interneurone	137
GREENAWAY, PETER. Sodium regulation in the freshwater mollusc <i>Limnaea Stagnalis</i> (L.) (Gastropoda: Pulmonata)	147
SANJEEVA-REDDY, P. and RAO, KANDULA PAMPAPATHI. The central course of the hair afferents and the pattern of contralateral activation in the central nervous system of the Scorpion, <i>Heterometrus Fulvipes</i>	165
BERRIDGE, M. J. The role of 5-hydroxytryptamine and cyclic AMP in the control of fluid secretion by isolated salivary glands	171
BERGFORS, T., MILD, K. H. and LØVTRUP, S. Modifications in the automatic diver balance technique	187
PICHON, Y. Ionic content of <i>Haemolymph</i> in the Cockroach, <i>Periplaneta Americana</i>	195
MCFARLANE, I. D. Control of preparatory feeding behaviour in the sea anemone <i>Tealia Felina</i>	211
YINON, U. The visual mechanisms of <i>Tenebrio molitor</i> : some aspects of the spectral response	221
PICKERING, A. D. and MORRIS, R. Osmoregulation of <i>Lampetra fluviatilis</i> L. and <i>Petromyzon marinus</i> (Cyclostomata) in Hyperosmotic solutions	231
KING, P. E. and RAFAI, JAMAL. Host discrimination in a gregarious parasitoid <i>Nasonia vitripennis</i> (Walker) (Hymenoptera: Pteromalidae)	245

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 52s. net (U.S.A. \$8.50). Subscription per volume £6. (U.S.A. \$19.50)

Published once every two months. Second class postage paid at New York, N.Y.