

INDEX OF AUTHORS

- A**
- Agar, the late W. E., Drummond, F. H., Tiegs, O. W. and Gunson, M. M.** Fourth (final) report on a text of McDougall's Lamarckian experiment on the training of rats 307
- Ashwell, D. G.** See MITCHISON and SWANN
- B**
- Bailey, L.** The respiratory currents in the tracheal system of the adult honey-bee 589
- Barnes, H.** Some tables for the ionic composition of sea water 582
— See also ROTHSCHILD and BARNES
- Batham, E. J. and Pantin, C. F. A.** Slow contraction and its relation to spontaneous activity in the sea-anemone *Metridium senile* (L.) 84
- Berg, Roelof van den.** See EWER and BERG
- Billingham, R. E. and Sparrow, Elizabeth M.** Studies on the nature of immunity to homologous grafted skin, with special reference to the use of pure epidermal grafts 16
- Blaschko, H. and Himms, Jean M.** Enzymic oxidation of amines in decapods 1
- Browning, T. O.** Water balance in the tick *Ornithodoros moubata* Murray, with particular reference to the influence of carbon dioxide on the uptake and loss of water 331
- Burke, W.** An organ for proprioception and vibration sense in *Carcinus maenas* 127
- C**
- Chambers, Robert,** See KAO and CHAMBERS
- D**
- Dainton, Barbara H.** The activity of slugs. I. The induction of activity by changing temperatures 165
— II. The effect of light and air currents 188
- Downing, Kathleen N.** The influence of dissolved oxygen concentration on the toxicity of potassium cyanide to rainbow trout 161
- Drummond, F. H.** See AGAR, DRUMMOND, TIEGS and GUNSON
- E**
- Edney, E. B.** See SPENCER and EDNEY
- Ellis, Peggy E. and Hoyle, G.** A physiological interpretation of the marching of hoppers of the African migratory locust (*Locusta migratoria migratorioides* R. and F.) 271
- Ewer, D. W. and Berg, Roelof van den.** A note on the pharmacology of the dorsal musculature of *Peripatopsis* 497
- Ewer, D. W.** See POPLE and EWER
- F**
- Fidanza, A.** See MAURICE and FIDANZA
- G**
- Gray, F. V., Pilgrim, A. F. and Weller, R. A.** Functions of the omasum in the stomach of the sheep 49
- Gray, F. V.** See WELLER and GRAY
- Gross, Warren J.** Osmotic responses in the sipunculid *Dendrostomum zosteriolum* 402
- Gunson, M. M.** See AGAR, DRUMMOND, TIEGS and GUNSON
- H**
- Harris, J. E. and Whiting, H. P.** Structure and function in the locomotory system of the dogfish embryo. The myogenic stage of movement 501
- Healey, E. G.** The colour change of the minnow (*Phoxinus laevis* Ag.). II. Effects of spinal section between vertebrae 1 and 15 and of anterior antonomic section on the responses of the melanophores 473
- Himms, Jean M.** See BLASCHKO and HIMMS
- Horridge, G. A.** The nerves and muscles of medusae. I. Conduction in the nervous system of *Aurellia aurita* Lamarck 594
- Hoyle, G.** Changes in the blood potassium concentration of the African migratory locust (*Locusta migratoria migratorioides* R. and F.) during food deprivation, and the effect on neuromuscular activity 260
— See also ELLIS and HOYLE
- K**
- Kao Chien-Yuan and Chambers, Robert.** Internal hydrostatic pressure of the *Fundulus* egg. I. The activated egg 139
- Kitching, J. A.** The effects of high hydrostatic pressures on a suctorian 56
— The physiology of contractile vacuoles. IX. Effects of sudden changes in temperature on the contractile vacuole of a suctorian; with a discussion of the mechanism of contraction 68
— X. Effects of high hydrostatic pressure on the contractile vacuole of a suctorian 76
- M**
- Mannell, W. A. and Rossiter, R. J.** Wallerian degeneration in the rat. The effect of age on the concentration of nucleic acid and phospholipid in intact and sectioned nerves 198

- Maurice, D. M. and Fidanza, A.** The structure of the yolk of the hen's egg, investigated by means of its permeability to ^{82}Br 573
- Mitchison, J. M. and Swann, M. M.** The mechanical properties of the cell surface. I. The cell elastimeter (With an Appendix by D. G. ASHWELL) 443
— II. The unfertilized sea-urchin egg 461
- Murray, A. J.** See STOPPANI, PIERONI and MURRAY
- P**
- Pantin, C. F. A.** See BATHAM and PANTIN
- Parry, D. A.** On the drinking of soil capillary water by spiders 218
- Parry, G.** Ionic regulation in the palaemonid prawn, *Palaemon* (= *Leander*) *serratus* 601
- Pieroni, P. J.** See STOPPANI, PIERONI and MURRAY
- Pilgrim, A. F.** See GRAY, PILGRIM and WELLER
- Pople, Walter and Ewer, D. W.** Studies on the myoneural physiology of Echinodermata. I. The pharyngeal retractor muscle of *Cucumaria* 114
- Potts, W. T. W.** The inorganic composition of the blood of *Mytilus edulis* and *Anodonta cygnea* 376
— The rate of urine production of *Anodonta cygnea* 614
— The energetics of osmotic regulation in brackish- and fresh-water animals 618
- Pringle, J. W. S.** A physiological analysis of cicada song 525
- R**
- Ramsay, J. A.** Active transport of water by the Malpighian tubules of the stick insect, *Dixippus morosus* (Orthoptera, Phasmidae) 104
- Robertson, James D.** The chemical composition of the blood of some aquatic chordates, including members of the Tunicata, Cyclostomata and Osteichthyes 424
- Rossiter, R. J.** See MANNELL and ROSSITER
- Rothschild, Lord and Barnes, H.** Constituents of bull seminal plasma 561
- Rothschild, Lord and Tyler, A.** The physiology of sea-urchin spermatozoa. Action of versene 252
- Rowlands, Anne.** The influence of water and light and the pituitary upon the pigmentary system of the common toad (*Bufo bufo bufo*) 151
- S**
- Sparrow, Elizabeth M.** See BILLINGHAM and SPARROW
- Spencer, J. O. and Edney, E. B.** The absorption of water by woodlice 491
- Stoppani, A. O. M., Pieroni, P. F. and Murray, A. J.** The role of peripheral nervous system in colour changes of *Bufo arenarum* Hensel 631
- Swann, M. M.** See MITCHISON and SWANN
- T**
- Thomas, H. J.** The oxygen uptake of the lobster (*Homarus vulgaris* Edw.) 228
- Thomsen, Ellen.** Studies on the transport of neurosecretory material in *Calliphora erythrocephala* by means of ligaturing experiments 322
- Tiegs, O. W.** See AGAR, DRUMMOND, TIEGS and GUNSON
- Treherne, John E.** The exchange of labelled sodium in the larva of *Aedes aegypti* L. 386
- Trueman, E. R.** Observations on the mechanism of the opening of the valves of a burrowing lamellibranch, *Mya arenaria* 291
- Tyler, A.** See ROTHSCCHILD and TYLER
- V**
- Vowles, D. M.** The orientation of ants. I. The substitution of stimuli 341
— II. Orientation to light, gravity and polarized light 356
- W**
- Walker, P. M. B.** The mitotic index and interphase processes 8
- Weller, R. A. and Gray, F. V.** The passage of starch through the stomach of the sheep 40
- Weller, R. A.** See GRAY, PILGRIM and WELLER
- Whiting, H. P.** See HARRIS and WHITING
- Wilson, V. J.** Slow and fast responses in cockroach leg muscle 280
- Y**
- Yčas, Martynas.** The respiratory and glycolytic enzymes of sea-urchin eggs 208