

INDEX TO VOL. CVI. (B)

- Adrian (E. D.) The Effects of Injury on Mammalian Nerve Fibres, 596.
- Amphibian tadpoles, distortion of development (Sladden), 318.
- Apanteles* sp., nucleal reaction (Mukerji), 131.
- Apples, respiratory activity during senescence (Kidd and West), 93.
- Aqueous solution, vapour pressure (Hill), 252.
- Basalt prisms, ball-and-socket jointing (Preston), 87.
- Bayliss (L. E.), Boyland (E.) and Ritchie (A. D.) The Adductor Mechanism of *Pecten*, 363.
- Beattie (J.), Brow (G. R.) and Long (C. N. H.) Physiological and Anatomical Evidence for the Existence of Nerve Tracts Connecting the Hypothalamus with Spinal Sympathetic Centres, 253.
- Blyth (J. S. S.) See Greenwood and Blyth.
- Bourdillon (R. B.), Gaddum (J. H.) and Jenkins (R. G. C.) The Production of Histamine from Histidine by Ultra-Violet Light and the Absorption Spectra of these Substances, 388.
- Boyland (E.) See Bayliss and others.
- Brow (G. R.) See Beattie and others.
- Buxton (P. A.) Evaporation from the Meal-Worm (*Tenebrio*: Coleoptera) and Atmospheric Humidity, 560.
- Cells, observations on movement (Moppet), 175.
- Cellular individuality in the higher animals (Todd), 20.
- Clover nodules, parasitism (Thornton), 110.
- Collodion gel films, filtration (Elford), 216.
- Corpora lutea of mouse (Deanesly), 578.
- Crinkle A (Salaman), 50.
- Cytochrome (Keilin), 418.
- Deanesly (R.) The Corpora Lutea of the Mouse, with Special Reference to Fat Accumulation during the Æstrous Cycle, 578.
- Diphtheria toxin, composition (Marrack and Smith), 1.
- Dipterous pupa, adaptation (Lamborn), 83.
- Discussion on Geological Climates, 299.
- Eccles (J. C.) and Sherrington (Sir Charles) Numbers and Contraction-Values of Individual Motor-Units Examined in some Muscles of the Limb, 326.
- Elford (W. J.) Structure in very Permeable Collodion Gel Films and its Significance in Filtration Problems, 216.
- Evaporation from meal-worm (Buxton), 560.
- Field soils, fluctuations of bacterial numbers and nitrate content (Thornton and Gray), 399.
- Filtration, significance of gel film structure (Elford), 216.

- Frequency distribution of red cell resistance to saponin (Ponder), 543
 Fruit, physiology (Kidd and West), 93.
- Gaddum (J. H.) *See* Bourdillon and others.
 Geological climates, discussion (Simpson), 299.
 Gray (P. H. H.) *See* Thornton and Gray.
 Greenwood (A. W.) and Blyth (J. S. S.) The Results of Testicular Transplantation in Brown Leghorn Hens, 189.
- Hæmolysins, simple (Ponder and Yeager), 506.
 Hæmolytic systems, cell content (Ponder), 532.
 Heape, W., obituary, xv.
 Hill (A. V.) A Thermal Method of Measuring the Vapour Pressure of an Aqueous Solution (Abstract), 252. The State of Water in Muscle and Blood and the Osmotic Behaviour of Muscle, 477.
 Hill (A. V.) and Kupalov (P. S.) The Vapour Pressure of Muscle, 445.
 Histamine, production from histidine (Bourdillon and others), 388.
- Iridescent colours of birds and insects (Rayleigh) (Abstract), 618.
- Jenkins (R. G. C.) *See* Bourdillon and others.
- Keeble (Sir F.), Nelson (M. G.) and Snow (R.) The Integration of Plant Behaviour, II, 182.
 Keilin (D.) Cytochrome and Intracellular Oxidase, 418.
 el Kelaney (M. A.) and Searle (G. O.) The Chemical Sectioning of Plant Fibres, 357.
 Kidd (F.) and West (C.) Physiology of Fruit, I, 93.
 Kupalov (P. S.) *See* Hill and Kupalov.
- Lactic acid, formation in amphibian muscles (Smith and Moran), 122.
 Lamborn (W. A.) The Remarkable Adaptation by which a Dipterous Pupa (Tabanidæ) is preserved from the Danger of Fissures in Drying Mud, 83.
 Lankester, E. R., obituary, x,
 Leghorn hens, testicular transplantation (Greenwood and Blyth), 189.
 Le Pelley (R. H.) *See* Salaman and Le Pelley.
 Long (C. N. H.) *See* Beattie and others.
 Lucerne, parasitism (Thornton), 110.
- Mammalian nerve fibres, effects of injury (Adrian), 596.
 Marrack (J. R.) and Smith (F. C.) The Composition of Diphtheria Toxin—Antitoxin Floccules, I.
 Marrack (J. R.) *See also* Smith and Marrack
 Marsupial enamel, organic content and reactions (Sprawson), 376.
 Moppett (W.) Observations on the Movement of Cells *in vitro*, 175.
 Moran (T.) *See* Smith and Moran.
 Motor-units, numbers and contraction-values (Eccles and Sherrington), 326.
 Mukerji (R. N.) The "Nucleal Reaction" in *Apanteles* sp., with Special Reference to the Secondary Nuclei and the Germ-Cell Determinant of the Egg, 131.
 Muscle, vapour pressure (Hill and Kupalov), 445.

Nelson (M. G.) *See* Keeble and others.

Nerve fibres, effects of injury (Adrian), 596.

Nerve tracts, physiological and anatomical evidence (Beattie and others), 253.

Obituary notices :—

Heape, W., xv.

Lankester, E. R., x.

Spencer, Sir Baldwin, vi.

Thislton-Dyer, Sir William, xxiii.

Thomas, M. R. O., i.

Wager, H. W. T., xix.

Osmotic behaviour of muscle (Hill), 477.

Oxidase, intracellular (Keilin), 418.

Para-crinkle (Salaman and Pelley), 140.

Parasitism in lucerne and clover nodules (Thornton), 110.

Pecten, adductor mechanism (Bayliss and others), 363.

Plant behaviour (Keeble and others), 182.

Plant fibres, chemical sectioning (el Kelaney and Searle), 357.

Ponder (E.) The Effect of Variations in the Cell Content of Hæmolytic Systems, 532.

The Form of the Frequency Distribution of Red Cell Resistance to Saponin, 543.

Ponder (E.) and Yeager (J. F.) The Use of *n*th Order Equations to Describe the Action of Simple Hæmolysins, 506.

Potato, crinkle "A" disease (Salaman), 50.

Preston (F. W.) Ball-and-Socket Jointing in Basalt Prisms, 87.

Radium, delayed lethal effect (Spear), 44.

Rapid chemical changes, time course (Roughton) (Abstract), 251.

Rayleigh (Lord) The Iridescent Colours of Birds and Insects (Abstract), 618.

Rhone glacier (Slater), 203.

Ritchie (A. D.) *See* Bayliss and others.

Roaf (H. E.) Visual Acuity in Light of Different Colours, 276.

Roughton (F. J. W.) The Time Course of the Heat Effects in Rapid Chemical Changes (Abstract), 251.

Salaman (R. N.) Crinkle "A," an Infectious Disease of the Potato, 50.

Salaman (R. N.) and Le Pelley (R. H.) Para-Crinkle: a Potato Disease of the Virus Group, 140.

Searle (G. O.) *See* el Kelaney and Searle.

Sherrington (Sir Charles) *See* Eccles and Sherrington.

Simpson (G. C.) and others. Discussion on Geological Climates, 299.

Sladden (D. E.) Experimental Distortion of Development in Amphibian Tadpoles, 318.

Slater (G.) Studies on the Rhone Glacier, 1927, 203.

Smith (E. C.) and Moran (T.) The Formation of Lactic Acid in Desiccated Amphibian Muscles, 122.

Smith (F. C.) and Marrack (J. R.) Further Observations on the Ultra-Violet Absorption Spectra of the Serum Proteins, 292.

Smith (F. C.) *See also* Marrack and Smith.

Snow (R.) *See* Keeble and others.

Spear (F. G.) The Delayed Lethal Effect of Radium on Tissue Cultures *in vitro*, 44.

Spectra of histamine and histidine (Bourdillon and others), 388.

- Spectrum, ultra-violet absorption of the serum (Smith and Marrack), 292.
 Spencer, Sir Walter, obituary, vi.
 Sprawson (E.) On the Histological Evidences of the Organic Content and Reactions of Marsupial Enamel, with a Note on Human Enamel, 376.
- Testicular transplantation in hens (Greenwood and Blyth), 189.
 Thiselton-Dyer, Sir William, obituary, xxiii.
 Thomas, M. R. O., obituary, i.
 Thornton (H. G.) The Influence of the Host Plant in Inducing Parasitism in Lucerne and Clover Nodules, 110.
 Thornton (H. G.) and Gray (P. H. H.) The Fluctuations of Bacterial Numbers and Nitrate Content of Field Soils, 399.
 Tissue cultures, effect of Radium (Spear), 444.
 Todd (C.) Cellular Individuality in the Higher Animals, with Special Reference to the Individuality of the Red Blood Corpuscle, 20.
 Tracheal respiration, a theory (Wigglesworth), 229.
- Ultra-violet absorption spectra of the serum (Smith and Marrack), 292.
- Vapour pressure of an aqueous solution (Hill), 252.
 Visual acuity in light of different colours (Roaf), 276.
- Wager, H. W. T., obituary, xix.
 Water, state in muscle and blood (Hill), 477.
 West (C.) *See* Kidd and West.
 Wigglesworth (V. B.) A Theory of Tracheal Respiration in Insects, 229.
- Yeager (J. F.) *See* Ponder and Yeager.

END OF THE ONE HUNDRED AND SIXTH VOLUME (SERIES B).

12.115