

## INDEX TO VOL. LXXXI. (B)

---

- Acidalia virgularia*, cross-breeding of two races of (Prout and Bacot), 133.
- Alcohol, ether, and chloroform, comparative power of, as measured by action on isolated muscle (Waller), 545.
- Ancestral gametic correlations of a Mendelian population mating at random (Pearson), 225.
- Armstrong (H. E.) The Origin of Osmotic Effects. II.—Differential Septa, 94.
- Bacilli, influence of glucosides on growth of acid-fast, and new method of isolating tubercle bacilli (Twort), 248.
- Bacot (A.) See Prout and Bacot.
- Bacteria, etc., differentiated by rate of diffusion into living cells (Ross), 97; — effects of nitrogen-fixing, on non-leguminous plants (Bottomley), 287; — electrical reactions of certain, and application in detection of tubercle bacilli (Russ), 314.
- Bacterial endotoxins, effect on opsonising action of rabbit serum (Hewlett), 325.
- Bacterium, a giant sulphur (West and Griffiths), 398.
- Balloons, rubber, and hollow viscera, elasticity of (Osborne and Sutherland), 485.
- Barratt (J. O. W.) and Yorke (W.) A Method of Estimating the Total Volume of Blood contained in the Living Body, 381.
- Bashford (E. F.) and Murray (J. A.) The Incidence of Cancer in Mice of Known Age, 310.
- Bateman (Capt. H. R.) See Bruce (Sir D.) and others.
- Bayliss, (W. M.) The Properties of Colloidal Systems. I.—The Osmotic Pressure of Congo-red and of some other Dyes, 269.
- Blood from diseases in man, presence of hæm-agglutinins, etc., in (Dudgeon), 207; — in cholera, variations in pressure and composition of (Rogers), 291; — in living body, method of estimating total volume of (Barratt and Yorke), 381; — supposed presence of carbon monoxide in (Buckmaster and Gardner), 515.
- Blood-platelets, vacuolation of (Ross), 351.
- Bottomley (W. B.) Some Effects of Nitrogen-fixing Bacteria on the Growth of Non-leguminous Plants, 287.
- Brown (A. J.) The Selective Permeability of the Covering of the Seeds of *Hordeum vulgare*, 82.
- Bruce (Sir D.) and others. A Trypanosome from Zanzibar, 14; — *Trypanosoma ingens*, n. sp., 323; — The Development of *Trypanosoma gambiense* in *Glossina palpalis*, 405; — A Note on the Occurrence of a Trypanosome in the African Elephant, 414.
- Buckmaster (G. A.) and Gardner (J. A.) On the Supposed Presence of Carbon Monoxide in Normal Blood and in the Blood of Animals anæsthetised with Chloroform, 515.
- Cambridge (P. J.) Observations on the Urine in Chronic Disease of the Pancreas, 372.
- Cancer, incidence of, in mice of known age (Bashford and Murray), 310.
- Carbon monoxide in normal blood and in blood of chloroformed animals, supposed presence of (Buckmaster and Gardner), 515.
- Cholera, variations in pressure and composition of blood in (Rogers), 291.

- Cholesterol, origin and destiny of the organism, Part III (Dorée and Gardner), 109 ;  
 — Part IV (Ellis and Gardner), 129 ; — Part V (Fraser and Gardner), 230 ; —  
 Part VI (Ellis and Gardner), 505.
- Colloidal systems, properties of (Bayliss), 269.
- Colloids, electrolytes and (Wood and Hardy), 38.
- Crepidula fornicata*, protandric hermaphroditism in (Orton), 468.
- Croonian Lecture (Schäfer), 442.
- Darbishire (A. D.) An Experimental Estimation of the Theory of Ancestral Contributions in Heredity, 61.
- Dendy (A.) The Intracranial Vascular System of *Sphenodon*, 290.
- Desmids, distribution of British (West and West), 165.
- Diffusion of stain, etc., into living cells, determination of coefficient of rate of (Ross), 97.
- Dorée (C.) and Gardner (J. A.) The Origin and Destiny of Cholesterol in the Animal Organism. Part III.—The Absorption of Cholesterol from the Food and its Appearance in the Blood, 109.
- Dudgeon (L. S.) On the Presence of Hæm-agglutinins, Hæm-opsonins, and Hæmolysins in the Blood obtained from Infectious and Non-infectious Diseases in Man. (Second Report), 207.
- Elasticity of rubber balloons and hollow viscera (Osborne and Sutherland), 485.
- Electrical state of living tissues, effect of heat upon (Waller), 303.
- Ellis (G. W.) and Gardner (J. A.) The Origin and Destiny of Cholesterol in the Animal Organism. Part IV.—The Cholesterol Contents of Eggs and Chicks, 129 ;  
 — Part VI.—The Excretion of Cholesterol by the Cat, 505.
- Ewart (J. C.) The Possible Ancestors of the Horses living under Domestication, 392.
- Fantham (H. B.) and Porter (A.) The Modes of Division of *Spirochæta recurrentis* and *S. duttoni* as observed in the Living Organisms, 500.
- Fermentation of glucose, etc., by yeast-juice (Harden and Young), 336.
- Flowers, colours and pigments of, with reference to genetics (Wheldale), 44.
- Fraser (M. T.) and Gardner (J. A.) The Origin and Destiny of Cholesterol in the Animal Organism. Part V.—On the Inhibitory Action of the Sera of Rabbits fed on Diets containing Varying Amounts of Cholesterol on the Hæmolysis of Blood by Saponin, 230.
- Fraser (Sir T. R.) and Gunn (J. A.) The Action of the Venom of *Sepedon hæmachates* of South Africa, 80.
- Fry (W. B.) See Plimmer and Fry.
- Gardner (J. A.) See Buckmaster and Gardner, Dorée and Gardner, Ellis and Gardner, and Fraser and Gardner.
- Genetics, colours and pigments of flowers, with reference to (Wheldale), 44.
- Gluten, physical state of (Wood and Hardy), 38.
- Goitre, summary of researches on etiology of (McCarrison), 31.
- Griffiths (B. M.) See West and Griffiths.
- Gunn (J. A.) See Fraser and Gunn.
- Hadwen (S.) See Nuttall and Hadwen.
- Hæm-agglutinins, hæm-opsonins, etc., in blood from diseases in man (Dudgeon), 207.
- Hamerton (Captain A. E.) See Bruce (Sir D.) and others.
- Hamilton (D. J.) Obituary notice of, i.

- Harden (A.) and Young (W. J.) The Alcoholic Ferment of Yeast-juice. Part IV.—The Fermentation of Glucose, Mannose, and Fructose by Yeast-juice, 336.
- Hardy (W. B.) See Wood and Hardy.
- Heape (W.) The Proportion of the Sexes produced by Whites and Coloured Peoples in Cuba, 32.
- Heredity, experimental estimation of ancestral contributions in (Darbishire), 61 ; — Theory of ancestral contributions in (Pearson), 219.
- Hermaphroditism in mollusc *Crepidula fornicata* (Orton), 468.
- Hewlett (R. T.) The Effect of the Injection of Intracellular Constituents of Bacteria (Bacterial Endotoxins) on the Opsonising Action of the Serum of Healthy Rabbits, 325.
- Hexosephosphate formed by yeast-juice from hexose and phosphate (Young), 528.
- Hillhousia mirabilis*, a giant sulphur bacterium (West and Griffiths), 398.
- Hordeum vulgare*, selective permeability of seed coverings of (Brown), 82.
- Horses living under domestication, possible ancestors of (Ewart), 392.
- Hudleston (W. H.) Obituary Notice of, vi.
- Innervation, reciprocal, of antagonistic muscles (Sherrington), 249.
- Jaundice in dog, malignant, discovery of a remedy for (Nuttall and Hadwen), 348.
- King (Sir George) Obituary Notice of, xi.
- McCarrison (R.) A Summary of further Researches on the Etiology of Endemic Goitre, 31.
- Mackie (Capt. F. P.) See Bruce (Sir D.) and others.
- Martin (C. H.) and Robertson (M.) Preliminary Note on *Trypanosoma eberthi* (Kent) (= *Spirochaeta eberthi*, Lühe), and some other Parasitic Forms from the Intestine of the Fowl, 385.
- Medals, award of, 8.
- Murray (J. A.) See Bashford and Murray.
- Muscle, action of alcohol, ether, and chloroform upon (Waller), 545.
- Nerves of atrio-ventricular bundle (Wilson), 151.
- Nitrogen-fixing bacteria, effects on growth of non-leguminous plants (Bottomley), 287.
- Nuttall (G. F.) and Hadwen (S.) The Discovery of a Remedy for Malignant Jaundice in the Dog, and for Redwater in Cattle, 348.
- Obituary notices :—  
     Hamilton (D. J.), i.  
     Hudleston, (W. H.), vi.  
     King (Sir G.), xi.
- Opsonising action of rabbit serum, effect of bacterial endotoxins on (Hewlett), 325.
- Orton (J. H.) On the Occurrence of Protandric Hermaphroditism in the Mollusc *Crepidula fornicata*, 468.
- Osborne (W. A.) and Sutherland (W.) The Elasticity of Rubber Balloons and Hollow Viscera, 485.
- Osmotic effects, origin of (Armstrong), 94.
- Osmotic pressure of Congo-red and some other dyes (Bayliss), 269.
- Pancreas, the urine in chronic disease of (Cambridge), 372.
- Pearson (K.) The Theory of Ancestral Contributions in Heredity, 219 ; — On the Ancestral Gametic Correlations of a Mendelian Population mating at Random, 225.

- Phytoplankton, British freshwater, with special reference to Desmids (West and West), 165.
- Pituitary body, functions of the (Schäfer), 442.
- Plimmer (H. G.) and Fry (W. B.) Further Results of the Experimental Treatment of Trypanosomiasis : being a Progress Report to a Committee of the Royal Society, 354.
- Porter (A.) See Fantham and Porter.
- President's anniversary address, 1.
- Prout (L. B.) and Bacot (A.) On the Cross-breeding of Two Races of the Moth *Acidalia virgularia*, 133.
- Rayleigh (Lord) Anniversary Address, 1908, 1.
- Redwater in cattle, discovery of a remedy for (Nuttall and Hadwen), 348.
- Robertson (M.) See Martin and Robertson.
- Rogers (L.) The Variations of Pressure and Composition of the Blood in Cholera ; and their Bearing on the Success of Hypertonic Saline Transfusion in its Treatment, 291.
- Ross (H. C.) On the Determination of a Coefficient by which the Rate of Diffusion of Stain and other Substances into Living Cells can be measured, and by which Bacteria and other Cells may be differentiated, 97 ; — The Vacuolation of the Blood-platelets : an Experimental Proof of their Cellular Nature, 351.
- Russ (C.) The Electrical Reactions of certain Bacteria, and an Application in the Detection of Tubercle Bacilli in Urine by means of an Electric Current, 314.
- Schäfer (E. A.) The Functions of the Pituitary Body (Croonian Lecture), 442.
- Seeds, resting, ferments and latent life of (White), 417.
- Sepedon hamachates*, action of venom of (Fraser and Gunn), 80.
- Sexes, proportion of, produced by whites and coloured peoples in Cuba (Heape), 32.
- Sherrington (C. S.) Reciprocal Innervation of Antagonistic Muscles. Fourteenth Note.—On Double Reciprocal Innervation, 249.
- Sphenodon, intracranial vascular system of (Dendy), 290.
- Spirochaeta eberthi* (Lühe), preliminary note on (Martin and Robertson), 385.
- Spirochaeta recurrentis* and *S. duttoni*, modes of division of (Fantham and Porter), 500.
- Sutherland (W.) See Osborne and Sutherland.
- Trypanosoma eberthi* (Kent), Preliminary Note on (Martin and Robertson), 385 ; — *gambiense*, development in *Glossina palpalis* (Bruce and others), 405 ; — *ingens*, n. sp. (Bruce and others), 323.
- Trypanosome from Zanzibar (Bruce and others), 14 ; — note on occurrence of, in African elephant (Bruce and others), 414.
- Trypanosomiasis, further results of experimental treatment of (Plimmer and Fry), 354.
- Twort (F. W.) The Influence of Glucosides on the Growth of Acid-fast Bacilli, with a New Method of Isolating Human Tubercle Bacilli, 248.
- Urine in chronic disease of pancreas (Cammidge), 372.
- Venom of *Sepedon*, action of (Fraser and Gunn), 80.
- Waller (A. D.) The Effect of Heat upon the Electrical State of Living Tissues, 303 ; — The Comparative Power of Alcohol, Ether, and Chloroform as measured by their Action upon Isolated Muscle, 545.
- West (G. S.) and Griffiths (B. M.) *Hillhousia mirabilis*, a Giant Sulphur Bacterium, 398.
- West (W. and G. S.) The British Freshwater Phytoplankton, with Special Reference to the Desmid-plankton and the Distribution of British Desmids, 165.

- Wheldale (M.) The Colours and Pigments of Flowers with Special Reference to Genetics, 44.
- White (Jean) The Ferments and Latent Life of Resting Seeds, 417.
- Wilson (J. G.) The Nerves of the Atrio-ventricular Bundle, 151.
- Wood (T. B.) and Hardy (W. B.) Electrolytes and Colloids.—The Physical State of Gluten, 38.
- Yeast-juice, alcoholic ferment of, Part IV (Harden and Young), 336 ; — hexose-phosphate formed by (Young), 528.
- Yorke (W.) See Barratt and Yorke.
- Young (W. J.) The Hexosephosphate formed by Yeast-juice from Hexose and Phosphate, 528 ; — See Harden and Young.

END OF THE EIGHTY-FIRST VOLUME (SERIES B).