

INDEX to VOL. LXXXVII. (B)

- After-images and successive contrast with pure colours (Porter and Edridge-Green), 190.
- Anthocyan pigments of plants.—Part VI (Keeble, Armstrong and Jones), 113.
- Anthocyanins and anthocyanidins, production of (Everest), 444.
- Arber (E. A. N.) On the Fossil Floras of the Wyre Forest, with Special Reference to the Geology of the Coalfield, etc., 317.
- Armstrong (E. F.) See Keeble, Armstrong, and Jones.
- Arterial pressure, measurement of (Hill and others), 344.
- Avebury (Lord). Obituary Notice of, i.
- Bacillus coli communis*, decomposition of formates by (Grey), 461 ; — decomposition of glucose and mannitol by (Grey), 472.
- Bacteria, oxidation of thiosulphate by (Lockett), 441.
- Barratt (J. O. W.) The Nature of the Coagulant of the Venom of *Echis carinatus*, a Small Indian Viper, 177.
- Bassett (H. LL.) See Wheldale and Bassett.
- Blacklock (B.) and Yorke (W.) The Trypanosomes causing Dourine (Mal de Coit or Beschâlseuche), 89.
- Blood pressure, resonance of tissues in transmission of (Hill and others), 255.
- Body weight and lethal dose of toxic substances (Dreyer and Walker), 319.
- Brain, mid-, postural and non-postural activities of (Brown), 145.
- Brodie (T. G.) A new Conception of the Glomerular Function, 571 ; — and Mackenzie (J. J.) On Changes in the Glomeruli and Tubules of the Kidney accompanying Activity, 593.
- Broom (R.) The Origin of Mammals, 87.
- Brown (T. G.) On the Question of Fractional Activity ("All or None" Phenomenon) in Mammalian Reflex Phenomena, 132 ; — On Postural and Non-postural Activities of the Mid-Brain, 145.
- Bruce (Sir D.) and others. Trypanosome Diseases of Domestic Animals in Nyasaland. III.—*T. pecorum*, 1 ; Morphology of Various Strains of the Trypanosome causing Disease in Man in Nyasaland.—The Mzimba Strain, 26 ; — The Trypanosome causing Disease in Man in Nyasaland.—Susceptibility of Animals to the Human Strain, 35 ; *Plasmodium cephalophi* (sp. nov.), 45 ; — Trypanosomes of the Domestic Animals in Nyasaland. I.—*T. simia*, sp. nov. Part II.—The Susceptibility of Various Animals to *T. simia*, 48 ; Part III, 58 ; — The Trypanosome causing Disease in Man in Nyasaland. Part III.—Development in *Glossina morsitans*, 516 ; — Description of a Strain of *Trypanosoma brucei* from Zululand. Part I.—Morphology, 493 ; Part II.—Susceptibility of Animals, 511 ; Part III.—Development in *Glossina morsitans*, 526.
- Bullock (W. E.) and Cramer (W.) Contributions to the Biochemistry of Growth.—On the Lipids of Transplantable Tumours of the Mouse and the Rat, 236.
- Chlorophyll extracts, formaldehyde as oxidation product of (Warner), 378 ; — action of light on (Wager), 386.
- Chloroplasts of green cells, presence of iron compounds in (Moore), 556.
- Cholesterol content of growing chickens under different diets (Gardner and Lander), 229.

- Church (A. H.) On the Floral Mechanism of *Welwitschia mirabilis* (Hooker), 354.
 "Clot" formations, investigations on phenomena of, II (Schryver), 366.
 Compton (A.) The Optimum Temperature of Salicin Hydrolysis by Enzyme Action is Independent of the Concentrations of Substrate and Enzyme, 245.
 Cramer (W.) See Bullock (W. E.) and Cramer (W.)
 Creatine, excretion in carbohydrate starvation (Graham and Poulton), 205.
 Croonian Lecture (Broom), 87 ; (Brodie), 571.
- Darwin (Sir F.) On a Method of Studying Transpiration, 269 ; — The Effect of Light on the Transpiration of Leaves, 281.
 Dosage of drugs (Dreyer and Walker), 319.
 Dourine, trypanosomes causing (Blacklock and Yorke), 89.
 Dreyer (G.) and Walker (E. W. A.) The Determination of the Minimal Lethal Dose of Various Toxic Substances and its Relationship to the Body Weight in Warm-blooded Animals, etc., 319.
 Dye (D. W.) See Glazebrook and Dye.
- Echis carinatus*, the coagulant of venom of (Barratt), 177.
 Edridge-Green (F. W.) See Porter and Edridge-Green.
 Enzymes in decomposition of glucose, etc., by *B. coli communis* (Grey), 472.
 Everest (A. E.) The Production of Anthocyanins and Anthocyanidins, 444.
- Flack (M.) See Hill, McQueen, and Flack.
 Flower-colour, chemical interpretation of Mendelian factors for (Wheldale and Bassett), 300.
 Formaldehyde as oxidation product of chlorophyll extracts (Warner), 378 ; — synthesis of, from carbon dioxide and water (Moore and Webster), 163.
 Fossil floras of the Wyre Forest (Arber), 317.
- Gardner (J. A.) and Lander (P. E.) The Origin and Destiny of Cholesterol in the Animal Organism. Part XI.—The Cholesterol Content of Growing Chickens under Different Diets, 229.
 Gel, formation of, from cholate solutions (Schryver), 366.
 Genetics of tetraploid plants in *Primula* (Gregory), 484.
 Glazebrook (R. T.) and Dye (D. W.) On the Heat Production associated with Muscular Work, 311.
 Graham (G.) and Poulton (E. P.) The Alleged Excretion of Creatine in Carbohydrate Starvation, 205.
 Gregory (R. P.) On the Genetics of Tetraploid Plants in *Primula sinensis*, 484.
 Grey (E. C.) The Decomposition of Formates by *Bacillus coli communis*, 461 ; — The Enzymes which are concerned in the Decomposition of Glucose and Mannitol by *B. coli communis*, 472.
 Growth, biochemistry of (Bullock and Cramer), 236.
Gunda ulvæ, regeneration in (Lloyd), 355.
 Gunn (J. A.) The Action of Certain Drugs on the Isolated Human Uterus, 551.
- Hamerton (A. E.) See Bruce (Sir D.) and others.
 Hammond (J.) and Marshall (F. H. A.) The Functional Correlation between the Ovaries, Uterus, and Mammary Glands in the Rabbit, with Observations on the Œstrous Cycle, 422.
Helix pomatia, spermatocyte metaphases of (Meek), 192.
 Heredity in sea-urchins, studies in (MacBride), 240.

- Hill (L.) and McQueen (J. M.) and Ingram (W. W.) The Resonance of the Tissues as a Factor in the Transmission of the Pulse and in Blood Pressure, 255 ; — — — and Flack (M.) The Conduction of the Pulse Wave and the Measurement of Arterial Pressure, 344.
- Ingram (W. W.) See Hill, McQueen, and Ingram.
- Jones (W. N.) See Keeble, Armstrong, and Jones.
- Keeble (F.), Armstrong (E. F.), and Jones (W. N.) The Formation of the Anthocyan Pigments of Plants.—Part VI, 113.
- Kennedy (R.) Experiments on the Restoration of Paralysed Muscles by means of Nerve Anastomosis. Part II.—Anastomosis of the Nerves Supplying Limb Muscles, 331.
- Kent (A. F. S.) Neuro-muscular Structures in the Heart, 198.
- Kidd (F.) The Controlling Influence of Carbon Dioxide in the Maturation, Dormancy, and Germination of Seeds.—Part I, 408 ; — Part II, 609.
- Kidney, glomerular function (Brodie), 571 ; — changes in glomeruli and tubules (Brodie and Mackenzie), 593.
- Lander (P. E.) See Gardner and Lander.
- Life, origin of, photo-synthesis and, iron compounds in green-cell chloroplasts in relation to (Moore), 556.
- Lipoids of transplantable tumours (Bullock and Cramer), 236.
- Lloyd (D. J.) The Influence of the Position of the Cut upon Regeneration in *Gunda ulva*, 355.
- Lockett (W. T.) Oxidation of Thiosulphate by Certain Bacteria in Pure Culture, 441.
- MacBride (E. W.) Studies in Heredity. II.—Further Experiments in Crossing British Species of Sea-urchins, 240.
- Macdonald (J. S.) Studies in the Heat-Production associated with Muscular Work, 96.
- Mackenzie (J. J.) See Brodie and Mackenzie.
- McQueen (J.) See Hill and others.
- Malaria parasite of man, new (Stephens), 375.
- Malarial parasites, growth, &c., in culture tube and human host (Thomson), 77.
- Mammals, origin of (Broom), 87.
- Marshall (F. H. A.) See Hammond and Marshall.
- Medullosa pusilla* (Scott), 221.
- Meek (C. F. U.) The Ratio between Spindle Lengths in the Spermatocyte Metaphases of *Helix pomatia*, 192.
- Moore (B.) The Presence of Inorganic Iron Compounds in the Chloroplasts of the Green Cells of Plants, considered in Relationship to Natural Photo-synthesis and the Origin of Life, 556 ; — and Webster (T. A.) Synthesis by Sunlight in Relationship to the Origin of Life.—Synthesis of Formaldehyde from Carbon Dioxide and Water by Inorganic Colloids, 163.
- Muscular work, heat production associated with (Macdonald), 96 ; — (Glazebrook and Dye), 311.
- Nerve anastomosis and restoration of paralysed muscles (Kennedy), 331.
- Obituary Notices :—
 Avebury, Lord, i.
 Slater, P. L., iii.
- Œstrous cycle, observations on (Hammond and Marshall), 422.

- Origin of life, synthesis by sunlight in relation to (Moore and Webster), 163.
- Ovaries, uterus, and mammary glands, functional correlation between (Hammond and Marshall), 422.
- Pixell (H. L. M.) Notes on *Toxoplasma gondii*, 67.
- Plasmodium cephalophi*, sp. nov. (Bruce and others), 45.
- Porter (A. W.) and Edridge-Green (F. W.) Negative After-Images and Successive Contrast with Pure Spectral Colours, 190.
- Poulton (E. P.) See Graham and Poulton.
- Primula sinensis*, genetics of tetraploid plants in (Gregory), 484.
- Pulse, resonance of tissues in transmission of (Hill and others), 255.
- Pulse wave and measurement of arterial pressure (Hill and others), 344.
- Reflex phenomena, question of fractional activity in (Brown), 132.
- Salicin hydrolysis by enzyme action, optimum temperature of (Compton), 245.
- Schryver (S. B.) Investigations dealing with the Phenomena of "Clot" Formations. Part II.—The Formation of a Gel from Cholate Solutions, etc., 366.
- Sc Slater (P. L.) Obituary Notice of, iii.
- Scott (D. H.) On *Medullosa pusilla*, 221.
- Sea-urchins, experiments in crossing (MacBride), 240.
- Seeds, influence of carbon dioxide on maturation, etc. (Kidd), 408, 609.
- Sex ratio in *Mus rattus*, variations in, associated with unusual adult female mortality (White), 335.
- Stephens (J. W. W.) A New Malaria Parasite of Man, 375.
- Synthesis by sunlight and origin of life (Moore and Webster), 163.
- Thiosulphate oxidised by bacteria (Lockett), 441.
- Thomson (J. G. and D.) The Growth and Sporulation of the Benign and Malignant Tertian Malarial Parasites in the Culture Tube and in the Human Host, 77.
- Tissue growth in autogenous and homogenous plasma (Walton), 452.
- Toxic substances, minimal lethal dose of, and relationship to body weight (Dreyer and Walker), 319.
- Toxoplasma gondii* (Pixell), 67.
- Transpiration, method of studying (Darwin), 269 ; — effect of light on (Darwin), 281.
- Tristichaceæ and Podostemaceæ, lack of adaptation in (Willis), 532.
- Trypanosoma brucei*, description of strain from Zululand (Bruce and others), 493, 511, 526.
- Trypanosoma simia*, susceptibility of various animals to (Bruce and others), 48 ; — development in *Glossina* (Bruce and others), 58.
- Trypanosome causing disease in Man in Nyasaland.—The Mzimba strain (Bruce and others), 26 ; susceptibility of animals to Human strain (Bruce and others), 35 ; development in *G. morsitans* (Bruce and others), 516.
- Trypanosome diseases of domestic animals in Nyasaland. III.—*Trypanosoma pecorum* (Bruce and others), 1.
- Trypanosomes causing dourine (Blacklock and Yorke), 89.
- Uterus, action of drugs on isolated human (Gunn), 551.
- Venom of *Echis carinatus*, nature of coagulant of (Barratt), 177.
- Wager (H.) The Action of Light on Chlorophyll, 386.
- Walker (E. W. A.) See Dreyer and Walker.
- Walton (A. J.) Variations in the Growth of Adult Mammalian Tissue in Autogenous and Homogenous Plasma, 452.

- Warner (C. H.) Formaldehyde as an Oxidation Product of Chlorophyll Extracts, 378.
 Watson (D. P.) See Bruce (Sir D.) and others.
 Webster (T. A.) See Moore and Webster.
Welwitschia mirabilis, floral mechanism of (Church), 354.
 Wheldale (M.) and Bassett (H. Ll.) The Chemical Interpretation of some Mendelian Factors for Flower-Colour, 300.
 White (F. N.) Variations in the Sex Ratio of *Mus rattus* associated with an Unusual Mortality of Adult Females, 335.
 Willis (J. C.) On the Lack of Adaptation in the Tristichaceæ and Podostemaceæ, 532.
 Wyre Forest, fossil floras of (Arber), 317.
 Yorke, W. See Blacklock and Yorke.

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