The *Biochemical Journal* is conducted by the Biochemical Society and is published by the Cambridge University Press.

This Society has been instituted for the purpose of facilitating intercourse between those biologists and chemists who are interested in the investigation of problems common to both, such as the chemical problems connected with Agriculture, Brewing, Animal and Vegetable Physiology and Pathology, &c. Persons interested in Biochemistry are eligible for election.

Meetings are held at different centres for the communication of papers to the Society.

The annual subscription is 35s., which includes a copy of the Journal, and becomes due on January 1st. Further information may be obtained on application to the Hon. Sec., Dr H. D. Kay, Medical Unit, London Hospital, Whitechapel, London, E. 1, or to the Hon. Treas., Mr J. Addyman Gardner, 13 Campden Grove, Kensington, W. 8, to whom subscriptions should be sent.

Papers for publication should be sent to Prof. A. Harden, F.R.S., Lister Institute, Chelsea Gardens, S.W. 1. Communications respecting the printing of the articles, or respecting the purchase of offprints should be addressed to the University Press, Cambridge.

The Journal is issued about every two months and the date at which each paper is received by the editors is printed at the beginning of the paper.

All communications respecting the purchase of copies of the parts or volumes, whether current or back issues, or respecting subscriptions in the case of non-members of the Biochemical Society (£3 net per volume (post free) payable in advance) should be addressed to The Cambridge University Press, Fetter Lane, London, E.C. 4, or to the Hon. Treas., Mr J. Addyman Gardner, 13 Campden Grove, Kensington, W. 8. For prices of back numbers and volumes see list on p. 4 of Wrapper.

Quotations can be given for Buckram binding cases and for binding Subscribers' Sets.

The Cambridge University Press has appointed the University of Chicago Press agent for the sale of the *Biochemical Journal* in the United States of America and has authorised the following subscription price. $15.00 net.

**Notice to Contributors.**

1. Contributors who are members of the Biochemical Society receive 25 copies of their papers free and can purchase additional copies if notice be given when their proofs are returned. Other contributors may purchase reprints but receive no free copies.

2. Papers forwarded to the Editors for publication are understood not to be offered to any other Journal for prior or simultaneous publication.

3. All communications intended for publication must be type-written.

4. References. References to literature should be arranged alphabetically according to authors' names at the end of the communication, each accompanied by the date, title of Journal, volume and page, thus: Ackermann (1912, 1), *Z. Biol.* 59, 17. In the text the reference should be indicated by the author's name and the date, enclosed in brackets, thus [Ackermann, 1912, 1]. If reference is made to several papers published by one author in a single year, these should be numbered in sequence and the number quoted along with the year both in the text and in the collected references.

5. Chemical formulae should be written, as far as possible, in a single horizontal line.

6. Illustrations and curves accompanying the papers must be carefully drawn, about twice the size of the finished block, on smooth white Bristol boards or ordinary curve paper in Indian ink. Any lettering on these drawings should be lightly inserted in pencil. Further information can be obtained from the Editors.

MSS. for the successive numbers of Vol. 22 should be in the hands of the Editors before the 1st of January, March, May, July, September and November respectively. Contributors are specially requested to arrange references in the manner uniformly adopted in this Journal.
BIOLOGICAL MEASUREMENTS

CONTRIBUTORS OF PAPERS involving extensive numerical observations, are requested to consult the recommendations of the British Association Committee on Biological Measurements 1927, obtainable from the British Association, Burlington House, W. 1, price 6d.

Arrangements have been made whereby original data, too extensive for complete publication, may be deposited at the British Museum (Natural History) or with the Royal Society of Edinburgh and so be made available for future workers. Authors desirous of depositing data, whether zoological or botanical, in this manner should communicate with either the Keeper of Zoology, Natural History Museum, S.W. 7, or the General Secretary, The Royal Society of Edinburgh, 22 George Street, Edinburgh, enclosing full bibliographic reference to the publication in which the results are summarised.

Biochemical Journal, xxi. 6
INDEX

Absorption spectra of oils and oil constituents with special reference to pro-vitamin D (Heilbron, Kanam and Morton), 1279

Adrenaline, determination of (Baker and Marrian), 1005

effect of, on ketosis in phloridzinised and normal rats (Anderson and Anderson), 1398

photo-oxidation of (Vacek), 457

Aestralata lessoni, stomach oil of, vitamin D content of (Leigh-Clare), 725

Albumin, urinary, identity of (Hewitt), 1109

Alcohol, effect of, on pH values of phosphate and bicarbonate solutions (Billmann and Katagiri), 441

Alcoholic fermentation, equation of (Harden and Henley), 1216

Alimentary canal of cockroach, pH in (Wigglesworth), 791

Alkalosis, effect of, on excretion of chloride and carbohydrate metabolism (Goldblatt), 991

Alveolar carbon dioxide, variations in, during forced breathing (Lepper and Marland), 823

Amino-acid synthesis, Erlenmeyer's method of (Harington and McCartney), 852

Amino-acids, effect of, on hydrolysis by pancreatic lipase (Dawson), 398

in proteins of hen's egg during development, changes in (Plimmer and Lowndes), 254

Aminonico production by kidney, in vitro (Holmes and Watchorn), 827

by kidney, in vitro, effect of glucose on (Watchorn and Holmes), 1391

Amylase, liver (Eadie), 314

Anaerobic oxidation of sulphur compounds, catalytic action of iron and copper on (Harrison), 335

Anderson, A. B. and Anderson, M. D. The effect of adrenaline on ketosis in phloridzinised and normal rats, 1398

Anderson, M. D. see Anderson, A. B.

Anslow, W. K. and King, H. Neutral salt addition compounds of alkaline earth glutamates and aspartates, 1168

Antimony trichloride test for vitamin A, reaction of fatty extracts of certain organs with (Wilson), 1054

Antineuritic vitamin, possible second factor of (Rosedale), 1266

synthesis of, by yeast (Hawking), 728;
(Peskett), 1102

Antineuritic yeast concentrates (Kinnersley and Peters), 777

Antirachitic value of fresh spinach (Roscoe), 211

Antiscorbutic fraction of lemon juice (Zilva), 689;
(Hoyle and Zilva), 1121

of lemon juice, precipitation of (Zilva), 354

Asparagine, enzymic deamidation of, in higher plants (Grover and Chibnall), 857

Aspartates, alkaline earth, neutral salt addition compounds of (Analog and King), 1168

Autocatalytic oxidation of sulphur compounds (Harrison), 1404

Bacillus coli communis, decomposition of hexosephosphates by (Manning), 349

Bacteria, experiments on, in relation to mechanism of enzyme action (Quastel and Wooldridge), 1224

resting, effects of chemical and physical changes in environment on (Quastel and Wooldridge), 148

Bacterial decomposition of tobacco (Faitelovitz), 262

Bacterial growth, significance of gelatin for (Platt), 16


Baker, L. C. see also Marrian, G. F.

Bakes, W. E. see Thaysen, A. C.

Balanidium coli Malm, toxicity of phenylarsinic acids for, in cultures (Corbet and Jameson), 986

Barger, G. see Harington, C. R.

Barton-Wright, E. C. see Dorè, C.

Bayliss, L. E. A conductivity method for the determination of carbon dioxide, 652

Beriberi symptoms, temporary spontaneous disappearance of, in pigeons on vitamin B-deficient diets (Kon), 834

Bicarbonate of plasma, variations in, during forced breathing (Lepper and Marland), 823

Bicarbonate solutions, pH of, effect of glucose, alcohol and carbon dioxide on (Billmann and Katagiri), 441

Billmann, E. and Katagiri, H. Influence of glucose, alcohol, and carbon dioxide at barometric pressure on the pH values of phosphate and bicarbonate solutions, determined by means of hydroquinhydrone electrodes, 441

Bishop, L. R. The estimation of cyanogenic glucosides, 1162

Blagoveschenksy, A. V. and Sossiedyov, N. I. The specific action of plant enzymes. III. The specific conditions of action of leaf salicinases, 1206

Blood, capillary and venous, urea content of (Svensgaard), 522

inorganic phosphate of, effect of dihydroxyacetone on (Lambie and Redhead), 549

iron in, micro-determination of (Smirk), 36

pH of, during hyperpnoea, influence of meals on (Lepper and Marland), 831
Blood, whole, behaviour of, towards maltose in vitro (Hynd and Macfarlane), 322
whole, chlorine in, micro-determination of (Smirk), 31
Blood-corpuscles, dispersed phase of (Ege), 967
Blood-fat and exercise (Patterson), 958
Blood-serum, interaction of lead suspension with (Brooks), 766
oxidation processes of (Parsons and Parsons), 1194
Boas, M. A. The effect of desiccation upon the nutritive properties of egg-white, 712
Bond, M. see Lowenfeld, M. F.
Bone phosphatase (Martland and Robison), 665
Brain tissue
Bonds, R. and exercise (Patterson), 958
Brain tissue of depancreatized cats, carbohydrate metabolism of (Holmes and Holmes), 412
Brinkman, R. see Buynendyk, F. J. J.
Brooks, J. The interaction of a finely divided lead suspension with blood-serum, Ringer solution, and aqueous phosphate solution, 766
Butcher, R. W., Pentelow, F. T. K. and Woodley, J. W. A. The diurnal variation of the gaseous constituents of river waters, 945
Butcher, R. W., Pentelow, F. T. K. and Woodley, J. W. A. The diurnal variations of the gaseous constituents of river waters. Part II, 1423
Cabbage leaf cytoplasm, ether-soluble substances of (Chibnall and Channon), 225, 233, 479; (Channon and Chibnall), 1112
Calcium, absorption and excretion of, action of parathyroid hormone on (Stewart and Percival), 301
serum-, of rabbits, variations in (Culhane), 1015
Calcium content of serum, action of parathyroid hormone on (Stewart and Percival), 301
Calcium metabolism (Stewart and Percival), 301
of lactating animal, effects of cod-liver oil on (Harvey), 1298
Calow, E. H. and Hele, T. S. Studies in the sulphur metabolism of the dog. V. Toxic action of mercapturic acids, 606
Cannan, R. K. Echinochrome, 184
Cannan, R. K. and Knight, B. C. J. G. Dissociation constants of cystine, cysteine, thiglycollic acid and α-thiolactic acid, 1384
Carbohydrate metabolism (Kermack, Lambie and Slater), 40; (Lambie and Redhead), 549
effect of alkalosis on (Goldblatt), 991
of blood of depancreatized cats (Holmes and Holmes), 412
of yeast (Dauney and Smedley MacLean), 373
Carbohydrates, digestion of, in cockroach (Wigglesworth), 797
Carbon dioxide, determination of (Bayliss), 662
effect of, on pH values of phosphate and bicarbonate solutions (Bilman and Kata-giri), 441
Carbon monoxide, action of, on oxidising enzymes (Dixon), 1211
as a tissue poison (Halfdan), 1068
Carbonic acid, true dissociation-constant of, determination of (Buynendyk, Brinkman, and Mook), 576
Carter, C. L. and Malcolm, J. Observations on the biochemistry of "mutton bird" oil, 484
Casenogone, action of alkali on (Rimington), 204
dephosphorised (Rimington), 204
phosphorus nucleus of (Posternak), 289
phosphorus of (Rimington), 1179, 1187
trypsin digests of, isolation of phosphorus-containing peptone from (Rimington), 1179
Cathcart, E. P. and Markowitz, J. A note on the hypoglycaemic action of dibhydroxy-acetone in man, 1419
Cereals, vitamin B potency of (Plummer, Rosendale and Raymond), 1141
Channon, H. J. and Chibnall, A. C. The ether-soluble substances of cabbage leaf cytoplasm. IV. Further observations on diglycerocephosphoric acid, 1112
Channon, H. J. see also Chibnall, A. C.
Charcoal, norite, use of, in concentration of torulin (Kinnear and Peters), 777
Chibnall, A. C. and Channon, H. J. The ether-soluble substances of cabbage leaf cytoplasm. I. Preparation and general characters, 225
Chibnall, A. C. and Channon, H. J. The ether-soluble substances of cabbage leaf cytoplasm. II. Calcium salts of glycerocephosphoric acids, 233
Chibnall, A. C. and Channon, H. J. The ether-soluble substances of cabbage leaf cytoplasm. III. The fatty acids, 479
Chibnall, A. C. see also Channon, H. J. and Grover, C. E.
Chick, H. and Roscoe, M. H. On the composite nature of the water-soluble B vitamin, 698
Chicken sarcoma, glutathione content of (Yaoi and Nakahara), 1277
Chickens, fat-soluble vitamin requirements of (Plummer, Rosendale and Raymond), 940
Chloride, excretion of, effect of alkalosis on (Goldblatt), 991
Chlorine in milk, determination of (Husband and Godden), 259
micro-determination of, in whole blood, serum or corpuscles (Smirk), 31
Cholesterol, absorption spectrum of, and its biological significance with reference to vitamin D (Heilbron, Kamm and Morton), 78
action of X-rays on (Hieger), 407
chromatographic properties in, development of, by heat (Moore and Willimott), 585
relation of, to vitamin D (Rosenheim and Webster), 127
Cholesterol content of human plasma (Gardner and Gainsborough), 130, 141
INDEX

Chromobacterium violaceum, pigment produced by (Reilly and Pyne), 1059
CLIFFORD, W. M. The effect of halogen salts on digestive enzyme, 544
CLUTTERBUCK, P. W. Experiments on the formation of succinic acid in the body. Part I. The determination of succinic acid and its formation in muscle and liver pulp, 512
Cockroach, digestion in (Wigglesworth), 791
Cod-liver oil, colorimetric testing of, method for (Rosenheim and Schuster), 1329
COOMBS, H. I. The micro-determination of metals in salts, 404
COOMBS, H. I. Studies in the sulphur metabolism of the dog. VII. The effect of fluorobenzene on sulphur metabolism, 623
COOMBS, H. I. Studies on xanthine oxidase. IX. The specificity of the system. II, 1259
COOMBS, H. I. and HELE, T. S. Studies in the sulphur metabolism of the dog. VI. The sulphur metabolism of the pig and dog compared, 611
Copper, catalytic action of, on anaerobic oxidation of sulphurlyd compounds (Harrison), 335
CORBET, A. S. and JAMESON, A. P. The toxicity of phenylarsenic acids for Balantidium coli Malm. in cultures, in relation to their chemical constitution, 986
Corpuscles, chloride in, micro-determination of (Smirk), 31
Coryne diphtheriae, active principle of culture filtrates of, precipitation of (Watson and Langstaff), 426
CULHANE, K. Variations in the serum-calcium of rabbits, 1015
Cyanide, effect of, on Schardinger enzyme (Dixon), 840
Cyanides and glucosone, antagonism of, in vivo (Hynd), 1094
Cyanogenetic glucosides, determination of (Bishop), 1102
Cystine, dissociation constants of (Cannan and Knight), 1384
Cystine, dissociation constants of (Cannan and Knight), 1384
estimation of, in the modified van Slyke method (Plimmer and Lowndes), 247
Cytoplasm, cabbage leaf, ether-soluble substances of (Chibnall and Channon), 225, 233, 479; (Channon and Chibnall), 1112
DAUNBREY, C. G. and SMEADLEY MACLEAN, I. The carbohydrate and fat metabolism of yeast. IV. The nature of the phospholipids, 373
DAUNBREY, C. G. and SMEADLEY MACLEAN, I. Note on the unsaponifiable matter of yeast-fat, 869
DAVIES, W. L. The titration of protein hydrolysates, 815
Dawson, E. R. The influence of amino-acids on hydrolysis by pancreatic lipase, 398
Deamidation, enzyme, of asparagine in higher plants (Grover and Chibnall), 857
DELBUE, G. see PERLZWEIG, W. A.
Desoxy-glucose, fate of, in the rabbit (Winter), 54
Diastase, liver (Lesser), 1128
DICKEN, F., DODDS, E. C., LAWSON, W. and MACLAGAN, N. F. The purification and properties of insulin, 560
Diets rich in protein, relation of yeast to growth of rats on (Hassan and Drummond), 653
synthetic, growth and reproduction on (Hartwell), 1076
Digestion in the cockroach (Wigglesworth), 791
Dicyclohexylphosphoric acid (Channon and Chibnall), 1112
Dihydroxyacetone, effect of, on respiratory metabolism and inorganic phosphate of blood (Lambie and Redhead), 549
hypoglycaemic action of, in man (Cathcart and Markowitz), 1419
5:6 Dihydroxyindole, from tyrosine, production of (Raper), 89
5:6 Dihydroxyindole-2-carboxylic acid from tyrosine, production of (Raper), 89
Dispersion of proteins (Hewitt), 216
Dissociation constants of cystine, cysteine, thyoglycolic acid and L-thiolactic acid (Cannan and Knight), 1384
DIXON, M. The effect of cyanide on the Schardinger enzyme, 840
DIXON, M. The action of carbon monoxide on certain oxidising enzymes, 1211
DIXON, M. and TUNNICLiffe, H. E. On the reducing power of glutathione and cysteine, 844
DODDS, E. C. see DICKENS, F.
Dogs, nuclear-plasmic ratio in, in carbohydrate and protein feeding and in starvation (Truszkowski), 1047
DORSEY, C. and BARTON-WRIGHT, E. C. Contributions to the study of lignin. Part I. Metalignin, a new type of alkali lignin, 290
DRUMMOND, J. C. see HASSAN, A., KON, S. K. and MARKAN, G. F.
DUDLEY, H. W., ROSENHEIM, O. and STARLING, W. W. The constitution and synthesis of spermidine, a newly discovered base isolated from animal tissues, 97
DUKE-ELDER, S. The biochemistry of the aqueous humour, 66
INDEX

EADIE, G. S.  On liver amylase, 314
ECHINOCROME (Cannan), 184
EDWARDS, G. R. and ROGERSON, H.  The constituents of Fabiana imbricata, 1010
EGG, R.  The dispersed phase of the blood-corpuscles, 967
Egg, amino-acids in proteins of, changes in, during development of (Plimmer and Lowndes), 264
Egg-white, nutritive properties of, effect of desication on (Boas), 712
EGGLETON, G. P. see EGGLETON, P.
EGGLETON, P. and EGGLETON, G. P.  The inorganic phosphate and a labile form of organic phosphate in the gastrocnemius of the frog, 190
Electrode, hydroquinhydrone, for pH determination (Grossman), 267
Electrodes, hydroquinhydrone, pH of phosphate and bicarbonate solutions determined by means of, effect of glucose, alcohol and carbon dioxide at barometric pressure on (Bilimann and Katagiri), 441
Enzyme, Scharinger's, effect of cyanide on (Dixon), 840
Enzyme action, mechanism of (Quastel and Wooldridge), 1224
Enzyme reactions, and structure (Przyłęcki, R. and Majewski), 1025
Enzymes, oxidising, action of carbon monoxide on (Dixon), 1211
plant, specific action of (Blagoveshenski and Sossidov), 1206
Enzymic deamidation of asparagine in higher plants (Grover and Chibnall), 857
Ergosterol, induced fluorescence of (Rosenheim), 1335
Etiolated wheat shoots, vitamin A formation in (Moore), 870
Excretion of chloride, effect of alkalosis on (Goldblatt), 991
Exercise, effect of, on blood-fat (Patterson), 958
Fabiana imbricata, constituents of (Edwards and Rogerson), 1010
FAIRBLOWZ, A.  The bacterial decomposition of tobacco as leading to the formation of bases in the presence of water, 262
Fat formed by living organisms, effect of temperature on (Pearson and Raper), 875
Fat metabolism of yeast (Daubeney and Smedley MacLean), 373
Fatty acids and their salts, effect of, on alcoholic fermentation by yeast (Katagiri), 494
PEARSON, W. R. and M'KENNA, C. B.  The photosynthesis of urea from ammonium carbonate, 1087
Fermentation, alcoholic, by yeast, effect of fatty acids and hydroxy-acids and their salts on (Katagiri), 494
alcoholic, equation of (Harden and Henley), 1216
Fibres, unsealed (King), 434
Fluorobenzene, effect of, on sulphur metabolism of the dog (Coombs), 623
Fodor, A. and REIPENBERG, A.  The enzymic production of volatile products from nicotine under the influence of tobacco leaf extracts. (A reply to A. Faitelowitz), 765
Forced breathing, PH and bicarbonate of plasma and alveolar CO2 during, variations in (Lepper and Martland), 823
Frog, gastrocnemius of, labile phosphate in (Eggleton and Eggleton), 190
Frog's muscle, production of lactic acid in, in vivo (Woodrow and Wigglesworth), 812
Fulmarus glacialis, stomach oil of (Rosenheim and Webster), 111
Fumaric, malic and succinic acids, metabolic relationships of (Needham), 739
GAINSBOROUGH, H. see GARDNER, J. A.
GARDNER, J. A. and GAINSBOROUGH, H.  Studies on the cholesterol content of normal human plasma. Part I, 130
GARDNER, J. A. and GAINSBOROUGH, H.  Studies on the cholesterol content of normal human plasma. Part II. The attraction of the proteins of plasma for sterols, 141
Gas scrubber (Southgate), 347
Gases of river waters, diurnal variations of (Butcher, Pentelow and Woodley), 1423
Gastrocnemius of frog, labile phosphate in (Eggleton and Eggleton), 190
Gastro-intestinal tract, pH of, possible significance of, in rickets (Redman, Williott and Wokes), 899
Gelatin, absorption of water by (Jordan Lloyd and Pless), 1352
diamino-fraction of hydrolysis products of, effect of acid and alkali on (Thornley), 1302
for bacterial growth, significance of (Platt), 16
scission of, into constituent proteins (Schryver and Thimann), 1284
Gestation, weight of rat during (Hartwell), 572
Glucose, effect of, on ammonia and urea production of kidney tissue growing in vitro (Wathorn and Holmes), 1380
effect of, on pH values of phosphate and bicarbonate solutions (Bilimann and Katagiri), 441
renal threshold for (Mackay), 760
Glucose metabolism of kidney tissue in vitro (Irving), 890
Glucosides, cyanogenetic, determination of (Bishop), 1162
Glucosone and cyanides in vivo, antagonism of (Hynd), 1094
Glutamates, alkaline earth, neutral salt addition compounds of (Anslow and King), 1168
Glutathione in tissues, modification of Tunncliffe's method for determination of (Perlweig and Delrue), 1416
reducing power of (Dixon and Tunncliffe), 844
Glutathione content of chicken sarcoma (Yaoi and Nakahara), 1277
Glycerol-phosphoric acids, calcium salts of (Chibnall and Channon), 233
Glycine, effect of, on pigeons on vitamin B-deficient diet (Kon), 857
GOODEN, W. see HUSBAND, A. D. and RICHARDS, M. B.
GOLDBLATT, M. W.  The effect of alkalosis on the excretion of chloride and on carbohydrate metabolism, 991
GROSSMAN, F. The use of the hydroquinone-hydride electrode for pH determination in the fluids of the organism, 267

GROVER, C. E. and CHINNALL, A. C. The enzymic deamination of asparagine in the higher plants, 827

Growth, bacterial, significance of gelatin for (Platt), 16

of micro-organisms, effect of changes of surface tension of culture medium on (Reader), 908

of micro-organisms, relation of, to composition of medium (Reader), 901, 908

of rats, effect of excessive radiation with ultra-violet light on (Leigh-Clare), 208

of rats on protein-rich diets, relation of yeast to (Hassan and Drummond), 653

of yeast (Peskett), 490

of yeast, effect of volume of medium on (Peskett), 104

on synthetic diets (Hartwell), 1076

Haematin, reduction of (Hill and Holden), 625

Haemocyanin, dependence of shape of oxygen dissociation curve on ionisation of (Stedman and Stedman), 533

Haemoglobin, fresh and denatured, free basic and acidic groups of (Lewis), 46

Haemolytic systems, kinetics of (Ponder), 56, 119

HALDANE, J. B. S. Carbon monoxide as a tissue poison, 1068

Halogen salts, effect of, on peptic digestion (Clifford), 544

Harden, A. and Henley, F. R. Note on the preparation of yeast-juice by Buchner’s method, 196

Harden, A. and Henley, F. R. The equation of alcoholic fermentation, 1216

Harington, C. R. and Barger, G. Chemistry of thyroxine. III. Constitution and synthesis of thyroxine: with a note by D. M. Lyon, 169

Harington, C. R. and McCartney, W. Note on the Erlenmeyer amino-acid synthesis, 852

Harrison, D. C. The catalytic action of traces of iron and copper on the anaerobic oxidation of sulphydryl compounds, 335

Harrison, D. C. Oxidations by hydrogen peroxide in presence of sulphydryl compounds, 507

Harrison, D. C. The autacatalytic oxidation of sulphydryl compounds, 1404

Hartwell, G. A. The dietary value of potato protein, 282

Hartwell, G. A. A note on the weight of the rat during gestation, 572

Hartwell, G. A. Growth and reproduction on synthetic diets. II, 1076

Harvey, D. The effects of cod-liver oil on the calcium and phosphorus metabolism of the lactating animal, 1268

Hassan, A. and Drummond, J. C. The physiological rôle of vitamin B. Part IV. The relation of certain dietary factors in yeast to growth of rats on diets rich in proteins, 653

Hawking, F. The synthesis of the antineuritic factor (torulin) by yeast, 728

Heilbron, I. M., Kamm, E. D. and Morton, R. A. The absorption spectrum of cholesterol and its biological significance with reference to vitamin D. Part I. Preliminary observations, 78

Heilbron, I. M., Kamm, E. D. and Morton, R. A. The absorption spectra of oils and oil constituents with special reference to pro-vitamin D, 1279

Helle, T. S. see Callow, E. H. and Coombs, H. I.

Henley, F. R. see Harden, A.

Herrick, F. The photocapillary reaction of plant sap, 1253

Hewitt, L. F. Optical rotatory power and dispersion of proteins, 216

Hewitt, L. F. Identity of urinary albumin, 1109

Hewitt, L. F. Combination of proteins with phthalein dyes, 1305

Hewitt, L. F. see also Marrack, J.

Hexosediphosphoric acid (Morgan), 675

Hexosemonophosphoric acid, effect of, on insulin hypoglycaemia (Marks and Morgan), 530

Hexosephosphates, decomposition of, by B. coli communis (Manning), 349

Hexophosphoric esters, possible significance of, in ossification (Martiald and Robison), 665

Hieron, I. On the alleged action of X-rays upon cholesterol, 407

Hieron, I. see also Kennaway, E. L.

Hill, R. and Holden, H. F. The reduction of haematin and methaemoglobin, 625

Holden, H. F. see Hill, R.

Holmes, B. E. and Holmes, E. G. Contributions to the study of brain metabolism. IV. Carbohydrate metabolism of the brain tissue of depancreatised cats, 412

Holmes, B. E. and Watchorn, E. Studies in the metabolism of tissues growing in vitro. I. Ammonia and urea production by kidney, 327

Holmes, B. E. see also Watchorn, E.

Holmes, E. G. see Holmes, B. E.

Hormone, parathyroid, action of, on calcium content of serum and on absorption and excretion of calcium (Stewart and Percival), 301

Hoyle, E. and Zilva, S. S. The antiscorbutic fraction of lemon juice. VI, 1121

Hume, E. M., Lucas, N. S. and Smith, H. H. On the absorption of vitamin D from the skin, 362

Humification of vegetable tissues (Thaysen and Bakes), 895

Humour, aqueous, the biochemistry of (Duke-Elder), 66

Husband, A. D. and Godden, W. A note on the estimation of chlorine in milk, 259

Husband, A. D. see also Richards, M. B.

Hydrogen ion concentration, determination of, in fluids of the organism, hydroquinone-hydride electrode for (Grossman), 267
Hydrogen ion concentration, determination of, with neutral red and phenol red, protein error in (Lepper and Martin), 556 effect of, on osmotic pressure of serum-proteins (Marrack and Hewitt), 1129 in alimentary canal of cockroach (Wigglesworth), 791 of blood during hyperpnoea, effect of meals on (Lepper and Martland), 831 of gastro-intestinal tract, possible significance of, in rickets (Redman, Willimott and Wokes), 589 of plasma, variations in, during forced breathing (Lepper and Martland), 823

Hydrogen peroxide, oxidations by, in presence of sulphhydryl compounds (Harrison), 507

Hydroquinhydron electrode for pH determination (Grossman), 267

Hydroquinhydrone, pH values of phosphate and bicarbonate solutions determined by means of, effect of glucose, alcohol and carbon dioxide on (Bilman and Katagiri), 441

Hydroxy-acids and their salts, effect of, on alcoholic fermentation by yeast (Katagiri), 494

Hynd, A. The effect of certain sugar derivatives on insulinised mice, 1081

Hynd, A. The antagonism of glucosone and cyanides in vivo, 1094

Hynd, A. and Macfarlane, M. G. The behaviour of whole blood towards maltose in vivo, 322

Hyperpnoea, pH of blood during, effect of meals on (Lepper and Martland), 831

Hypoglycaemic action of dihydroxyacetone in man (Catheart and Markowitz), 1419

Inanition, relation of, to vitamin B deficiency in pigeons (Marrian, Baker, Drummond and Woollard), 1396

Insulin hypoglycaemia, effect of hexosediphosphoric acid and hexosemonophosphoric acid on (Marks and Morgan), 530 effect of methyglyoxal and other possible intermediaries on (Kermack, Lambie and Slater), 40

Insulin, properties and purification of (Dickens, Dodds, Lawson and Maclagan), 560

Insulinised mice, effect of sugar derivatives on (Hynd), 1081

Iron, catalytic action of, on anaerobic oxidation of sulphhydryl compounds (Harrison), 335 in blood, micro-determination of (Smirk), 36

Irving, J. T. The glucose metabolism of kidney tissue in vitro. I, 880

Jameson, A. P. see Conn, A. S.

Jordan Lloyd, D. and Fleass, W. B. The absorption of water by gelatin, 1352

Kamm, E. D. see Heilbron, I. M.

Katagiri, H. The influence of the fatty acids and hydroxy-acids and their salts on alcoholic fermentation by living yeast. Part II. Propionic, butyric, iso-butyric, glycollic, lactic, hydroxy-iso-butyric, α- and β-hydroxybutyric acids and their sodium salts, 494

Katagiri, H. see also Bilman, E.

Kay, H. D. see Brain, R. T.

Kennaway, E. L. and Higer, L. Quantitative studies of the nitroso-urea reaction in normal tissues and tumours, 731

Kermack, W. O., Lambie, C. G. and Slater, R. H. Studies in carbohydrate metabolism. II. Influence of methylglyoxal and other possible intermediaries upon insulin hypoglycaemia, 40

Kermack, W. O. and Slater, R. H. The preparation of taurine in considerable quantity, 1065

Ketosis, effect of adrenaline on, in phosphorinduced and normal rats (Anderson and Anderson), 1398

Kidney, production of ammonia and urea by, in vitro (Holmes and Watchorn), 327

Kidney phosphatase, in disease (Brain and Kay), 1104

Kidney tissue, glucose metabolism of, in vitro (Irving), 880 growing in vitro, ammonia and urea production of, effect of glucose on (Watchorn and Holmes), 1391

King, A. T. Unsealed fibres. A new aspect of fibre research, 434

King, H. see Ansloot, W. K.

Kinnersley, H. W. and Peters, R. A. Antineural yeast concentrates. II. The use of norite charcoal in the concentration of torulin, 777

Knight, B. C. J. G. see Cannan, R. K.

Kon, S. K. A note on the temporary spontaneous disappearance of typical beriberi symptoms in pigeons fed on diets deficient in vitamin B, 834

Kon, S. K. The effect of the administration of glycine to pigeons on a diet deficient in vitamin B, 837

Kon, S. K. and Drummond, J. C. The physiological rôle of vitamin B. Part III. Study of vitamin B deficiency in pigeons, 632

Kon, S. K. and Moore, T. Note on the attempted activation of tyrosine by ultraviolet irradiation, 1398

Lactating animal, effects of cod-liver oil on calcium and phosphorus metabolism of (Harvey), 1208

Lactic acid, production of, in frog's muscle in vivo (Woodrow and Wigglesworth), 812

Lambie, C. G. and Redhead, F. A. Studies in carbohydrate metabolism. III. The influence of dihydroxyacetone upon the respiratory metabolism and upon the inorganic phosphate of the blood, 549

Lambie, C. G. see also Kermack, W. O.

Langstaff, E. see Watson, A. F.

Lawson, W. see Dickens, F.

Lead suspension, interaction of, with blood-serum, Ringer solution, and phosphate solutio (Brooks), 786

Leaf cytoplasm, cabbage, ether-soluble substances of (Chibnall and Channon), 225, 233, 479; (Channon and Chibnall), 1112

Leaf salicinases, specific conditions of action of (Blagoveschenski and Sossiedov), 1206
LEIGH-CLARE, J. L. The effect of excessive radiation with ultra-violet light upon the growth of rats, 208
LEIGH-CLARE, J. L. A search for vitamin D in the diatom Nitzschia closterium (W. Sm.), 368
LEIGH-CLARE, J. L. A note on the vitamin D content of the stomach oil of the Australasian petrel (Austrelata lessonis), 725

Lemon juice, antiscorbutic fraction of (Zilva), 689; (Hoyle and Zilva), 1121

vitamin C from, precipitation of (Zilva), 354
LEPPER, E. H. and MARTIN, C. J. The protein error in estimating pK with neutral red and phenol red, 356
LEPPER, E. H. and MARTLAND, M. Variations in the pK and bicarbonate of the plasma and of the alveolar CO2 during forced breathing, 823
LEPPER, E. H. and MARTLAND, M. The influence of meals on the rise of the hydrogen ion concentration of the blood during hyperpnoea, 831
LESSER, E. F. Liver diastase, 1128
LEWIS, P. S. The heat-denaturation of proteins. Part IV. The free basic and acidic groups of fresh and denatured haemoglobin, 48

Light, effect of, on uroporphyrin (Squires), 437
LIGNIN (Dorée and Barton-Wright), 290
Lipase, pancreatic, hydrolysis by, effect of amino-acids on (Dawson), 308
LIVER, succinic acid in (Clutterbuck), 512
Liver amylase (Eadie), 314
Liver diastase (Lesser), 1128
LOWENFELD, M. F., WIDDOWS, S. T., BOND, M. and TAYLOR, E. I. A study of the variations in the chemical composition of normal human colostrum and early milk, 1
LOWNSDES, J. see PLIMMER, R. H. A.
LUCAS, N. S. see HUME, E. M.
LYON, D. M. see HARINGTON, C. R.
McCARTNEY, W. see HARINGTON, C. R.
MACFARLANE, M. G. see HYND, A.
MACKAY, R. L. Observations on the renal threshold for glucose, 760
M’KENNA, C. B. see FEARON, W. R.
MACLAGAN, N. E. see DICKENS, E.
MAJEWSKI, T. see PRZYLOCKI, ST. J.
MALCOM, J. see CARTER, C. L.
MALLE, succinic and fumaric acids, metabolic relationships of (Needham), 739
MALTose, behaviour of whole blood towards, in vitro (Hynd and Macfarlane), 322
MANNING, R. J. Decomposition of hexose-phosphates by B. coli communis, Escherich, 349
MARKOWITZ, J. see CATICART, E. P.
MARES, H. P. and MORGAN, W. T. J. The influence of hexosediphosphoric acid and hexosemonophosphoric acid upon insulin hypoglycaemia, 530
MARRACK, J. and HEWITT, L. F. The effect of hydrogen ion concentration and protein concentration on the osmotic pressure of serum-proteins, 1129
MARRYAN, G. F., BAKER, L. C., DRUMMOND, J. C. and WOOLARD, H. The physiological rôle of vitamin B. V. The relation of inanition to vitamin B deficiency in pigeons, 1336
MARRYAN, G. F. see BAKER, L. C.
MARTIN, C. J. see LEPPER, E. H.
MARTLAND, M. and ROBINSON, R. The possible significance of hexosephosphoric esters in ossification. VII. The bone phosphatase, 685
MARTLAND, M. see LEPPER, E. H.

Medium, culture, effect of changes of surface tension of, on growth of micro-organisms (Reader), 908
culture, synthetic, composition of, in relation to growth of micro-organisms (Reader), 901
MELANIN, precursors of (Raper), 89
MERCAPTURIC ACIDS, toxic action of (Callow and Hele), 606
METABOLISM, aerobic and anaerobic, of common cockroach (Slater), 198
basal, and purine content (Truszkowski), 1040
brain (Holmes and Holmes), 412
calcium (Stewart and Percival), 301
calcium and phosphorus, of lactating animal, effects of cod-liver oil on (Harvey), 1268
carbohydrate (Kermack, Lambie, and Slater), 40; (Lambie and Redhead), 549
carbohydrate and fat, of yeast (Dauney and Smedley MacLean), 373
carbohydrate, effect of alkalosis on (Goldblatt), 991
carbohydrate, of brain tissue of depancreatized cat (Holmes and Holmes), 412

glucose, of kidney tissue in vitro (Irving), 880

nitrogen and mineral, of growing pig, effect of variations of sodium : potassium ratio on (Richards, Godden and Husband), 971
pig and dog, comparison of (Coombs and Hele), 611
of tissues growing in vitro (Holmes and Watchorn), 327; (Watchorn and Holmes), 1391
purine (Truszkowski), 1040, 1047
respiratory, effect of dihydroxyacetone on (Lambie and Redhead), 549
sulphur, of the dog (Callow and Hele), 606; (Coombs and Hele), 611; (Coombs), 623
sulphur, of the dog, effect of fluorobenzene on (Coombs), 623
METHYLGLOXAL, effect of, on insulin hypoglycaemia (Kermack, Lambie, and Slater), 40-
and β-Methylhexosediphosphoric acids (Morgan), 675
MICRO-DETERMINATION of metals in salts (Coombs), 404
Micro-organisms, growth of, in relation to composition of medium (Reader), 901, 908
Milk, chlorine in, determination of (Husband and Godden), 259
Oxidases, classification

Oxidase, xanthine,
Ovomucoid possible
Optical rotatory power
pressure of
Osmotic

Mutton

Nutroprusside
reaction, bacterial, relation of to peroxide formation by pneumo-

Nitroprusside
reaction

Nitroprusside
reaction

Nicotine,

Morgan, H. see Buytendyke, F. J. J.

Moore, T. Vitamin A formation in the etio-
lated wheat shoot, 870

Moore, T. see also Kek, S. K. and Willmott, S. G. On the de-
velopment of chromogenic properties in
cholesterol by the action of heat, 885

Moore, T. see also Kek, S. K. and Willmott, S. G.

Morton, R. A. see Heilbron, I. M.

Muscle, frog’s, production of lactic acid in,
in vivo (Woodrow and Wigglesworth), 812
succinic acid in (Clutterbuck), 512; (Need-
ham), 739

“Mutton bird” oil (Carter and Malcolm), 484

Nakahara, W. see Yao, H.

Needham, D. M. A quantitative study of suc-
cinic acid in muscle. II. The metabolic
relationships of succinic, malic and fu-
maric acids, 739

Needham, J. On ovomucoid, 733

Nicotine, enzymic production of volatile pro-
ducts from, under influence of tobacco
leaf extracts (Fodor and Reifenberg), 765

Niedzwiedzka, H. see Przylecki, St. J.

Nitrogen metabolism of growing pig, effect of
variations of sodium : potassium ratio on
(Richards, Godden and Husband), 971

Nitroprusside reaction in normal and tumour
tissue (Kennaaway and Hieger), 751

Nitschka closterium, vitamin D in, search for
(Leigh-Clare), 368

Nuclear-plasmic ratio in dogs in carbohydrate
and protein feeding and in starvation
(Turner and Rockett), 1107

Nutrition (Plimmer, Rosedale and Raymond),
913, 940; (Plimmer, Rosedale, Raymond
and Lowndes), 1141

Obituary notice of J. Webster, 265

Oil, “mutton bird” (Carter and Malcolm), 484
stomach, of Australasian petrel, vitamin D
content of (Leigh-Clare), 725
stomach, of fulmar petrel (Rosenheim and
Webster), 111

Oils, absorption spectra of (Heilbron, Kamm
and Morton), 1379

Optical rotatory power of proteins (Hewitt), 216

Osmotic pressure of serum-proteins, effect of
pH and protein concentration on (Marrack
and Hewitt), 1129

Oxidase, xanthine, specificity of system of
(Coombs), 1259

Oxidases, classification of (Pugh and Raper), 1370

Oxidation, anaerobic, of sulphhydryl compounds,
catalytic action of iron and copper on
(Harrison), 335

Oxidation, catalytic, of sulphhydryl compounds
(Harrison), 1404

Oxidation-reduction reactions, bacterial, relation
of to peroxide formation by pneumoc-
coccus (Platt), 19

Oxidations by hydrogen peroxide in presence of
sulphhydryl compounds (Harrison), 507

Oxidising enzymes, action of carbon monoxide
on (Dixon), 1211

Pancreatic lipase, hydrolysis by, effect of
amino-acids on (Dawson), 398

Parathyroid hormone, action of, on calcium
content of serum and on absorption and
excretion of calcium (Stewart and Per-
cival), 301

Parsons, T. R. and Parsons, W. Observa-
tions on some processes of oxidation in
blood-serum, 1194

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.

Parsons, W. see Parsons, T. R.
Phosphatase, bone (Martland and Robison), 665
kidney, in disease (Brain and Kay), 1104
Pneumococcus, peroxide formation by (Platt), 19
Polysaccharide-aminase-charcoal system. (Przy- lecki, Niedzwiedzka and Majewski), 1025
PONDER, E. Studies on the kinetics of haemo- lytic systems. II. The series of Ryvoeh, 56
PONDER, E. Studies on the kinetics of haemo- lytic systems. III. Time-dilution curves and zones of action, 119
POSTERNAK, S. The phosphorus nucleus of caseinogen, 289
Potato protein, dietary value of (Hartwell), 282
Protein hydrolysates, titration of (Davies), 815
Protein, potato, dietary value of (Hartwell), 282 serum-, osmotic pressure of, effect of pK and protein concentration on (Marrack and Hewitt), 1129
Protein solutions, surface tension of (St Johnston), 1314
Proteins, analysis of (Plimmer and Lowndes), 247 combination of, with phthalein dyes (Hewitt), 1305 heat-denaturation of (Lewis), 46 of plasma, attraction of, for sterols (Gardner and Gainsborough), 141 of the hen’s egg, changes in amino-acids of, during development (Plimmer and Lowndes), 254 optical rotatory power and dispersion of (Hewitt), 216 phosphorylation of (Rimington), 272
Pro-vitamin D in oils, spectrographic examination for (Heilbron, Kamm and Morton), 1279
Przyłęcki, St. J., NIEDZWIEDZKA, H. and MAJEWSKI, T. Structure and enzyme reactions. I and II. The systems urea-urease-charcoal and polysaccharide-aminase-charcoal, 1025
PUGH, C. E. M. and RAPER, H. S. The action of tyrosinase on phenols; with some ob- servations on the classification of oxidases, 1370
Purine metabolism (Truszkowski), 1040, 1047
PYNE, G. see REILLY, J.
QuASTEL, J. H. and WoOLDRIDGE, W. R. The effects of chemical and physical changes in environment on resting bacteria, 148
QuASTEL, J. H. and WoOLDRIDGE, W. R. Experiments on bacteria in relation to the mechanism of enzyme action, 1224
Rabbit, deoxy-glucose in, fate of (Winter), 54
Rabbits, serum-calcium of, variations in (Culhan), 1015
RAPER, H. S. The tyrosinase-tyrosine reaction. VI. Production from tyrosine of 5: 6 dihydroxyindole and 5: 6 dihydroxyin- dole-2-carboxylic acid—the precursors of melanin, 89
Plants, specific action of (Blagoev-neschenko and Sossedov), 1206
Plant oxidation (Platt and Wormall), 26
Plant sap, photocapillary reaction of (Herfik), 1253
Plants, higher, enzymic deamination of aspara- ginic in (Grover and Chibnall), 857
Plasma, normal, human, cholesterol content of (Gardner and Gainsborough), 130, 141 P(NH)2 and bicarbonate of, variations in, during forced breathing (Lepper and Martland), 823 proteins of, attraction of, for sterols (Gardner and Gainsborough), 141
PLATT, B. S. A note on the significance of gelatin for bacterial growth, 16
PLATT, B. S. Peroxide formation by pneumo- coccius and its relation to bacterial oxidation-reduction reactions, 19
Platt, B. S. and WORMALL, A. A note on plant oxidation: the nature and reactions of the substance “tyrin,” 26
PLEASS, W. B. see JORDAN LLOYD, D.
PIMMER, R. H. A. and LOWNDES, J. Analysis of proteins. VIII. Estimation of cystine in the modified Van Slyke method, 247
PIMMER, R. H. A. and LOWNDES, J. Changes in the amino-acids in the proteins of the hen’s egg during development, 254
PIMMER, R. H. A., ROSEDALE, J. L. and RAYMOND, W. H. Experiments on nutrition. VI. Balance of food by vitamin B, 913
INDEX

RAFER, H. S. see also PEARSON, L. K. and PUGH, C. E. M.
Rat, growth of, effect of excessive radiation with ultra-violet light on (Leigh-Clare), 308
weight of, during gestation (Hartwell), 572
RAYMOND, W. H. see PLIMMER, R. H. A.
READER, V. The relation of the growth of certain micro-organisms to the composition of the medium. I. The synthetic culture medium, 901
READER, V. The relation of the growth of certain micro-organisms to the composition of the medium. II. The effect of changes of surface tension on growth, 908
REDHEAD, F. A. see LAMBIE, C. G.
REDMAN, T., WILLIMOTT, S. G. and WOKES, F. The pH of the gastro-intestinal tract of certain rodents used in feeding experiments, and its possible significance in rickets, 589
REIFFENBERG, A. see FODOR, A.
REILLY, J. and PYNES, G. On the pigment produced by Chromobacterium violaceum, 1059
Renal threshold for glucose (Mackay), 760
Reproduction on synthetic diets (Hartwell), 1076
Rice, effect of mill products of, on pigeons (Williams), 1349
RICHARDS, M. B., GODDEN, W. and HUSBAND, A. D. The influence of variations in the sodium : potassium ratio on the nitrogen and mineral metabolism of the growing pig, 971
Rickets, possible significance of pH of gastro-intestinal tract in (Redman, Willimott and Wokes), 589
RIMINGTON, C. Some phosphorus compounds of milk. III. Diphosphorised caseinogen. The action of alkali upon caseinogen, 204
RIMINGTON, C. Phosphorylation of proteins, 272
RIMINGTON, C. The phosphorus of caseinogen. I. Isolation of a phosphorus-containing peptide from tryptic digests of caseinogen, 1179
RIMINGTON, C. The phosphorus of caseinogen. II. Constitution of phosphopeptone, 1187
Ringer solution, interaction of lead suspension with (Brooks), 786
River waters, diurnal variation of gaseous constituents of (Butcher, Pentelow and Woodley), 945, 1423
Rohson, R. see MARLAND, M.
ROGERSON, H. see EDWARDS, G. R.
ROSCOE, M. H. A further note on the antirachitic value of fresh spinach, 211
ROSCOE, M. H. see also CHICK, H.
ROSEDALE, J. L. Studies on the antineuritic vitamin. I. Preliminary note on a possible second factor, 1286
ROSEDALE, J. L. see also PLIMMER, R. H. A.
ROSENHEIM, O. Note on some sterol colour reactions in their relation to vitamin A, 386
ROSENHEIM, O. Note on the induced fluorescence of ergosterol, 1335
ROSENHEIM, O. and SCHUSTER, E. A new colorimeter based on the Lovibond colour system, and its application to the testing of cod-liver oil and other purposes, 1329
ROSENHEIM, O. and WEBSTER, T. A. The stomach oil of the fulmar petrel (Fulmarus glacialis), 111
ROSENHEIM, O. and WEBSTER, T. A. The relation of cholesterol to vitamin D, 127
ROSENHEIM, O. and WEBSTER, T. A. The parent substance of vitamin D, 389
ROSENHEIM, O. see also DUDLEY, H. W.
Rychov, series of, for haemolytic systems (Ponder), 56

St JOHNSTON, J. H. The surface tension of protein solutions. Part III, 1314
Sallinases, leaf, specific conditions of action of (Blagoveshenski and Sossiedov), 1206
Sap, plant, photocapillary reaction of (Herédik), 1253
Sarcoma, chicken, glutathione content of (Yaoi and Nakahara), 1277
SCHYVER, S. B. and THIMANN, K. V. Investigations on gelatin. Part IX. The scission of gelatin into constituent proteins, 1284
SCHUSTER, E. see ROSENHEIM, O.
Serum, chlorine in, micro-determination of (Smirk), 31
Serum-calcium of rabbits, variations in (Culhane), 1015
Serum-proteins, osmotic pressure of, effect of pH and protein concentration on (Marrack and Hewitt), 1129
Skin, absorption of vitamin D from (Hume, Lucas and Smith), 362
SLATER, R. H. see KERMACK, W. O.
SLATER, W. K. The aerobic and anaerobic metabolism of the common cockroach (Periplaneta orientalis). II, 198
SMEDLEY MACLEAN, I. see DAUNSEY, C. G.
SMIRK, F. H. The micro-estimation of chlorine in whole blood, serum or corpuscles, 31
SMIRK, F. H. The micro-estimation of iron in blood, 36
SMITH, H. H. see HUME, E. M.
Sodium : potassium ratio, effect of variations of, on the nitrogen and mineral metabolism of the growing pig (Richards, Godden and Husband), 971
SOSSEDOV, N. I. see BLAGOYVESCHENSKI, A. V.
SOUTHGATE, H. W. Note on an efficient gas scrubber, 347
Spermididine, constitution and synthesis of (Dudley, Rosenheim and Starling), 97
Spinach, fresh, antirachitic value of (Roscce), 211
vitamin A and D of (Willimott and Wokes), 887
SQUIRES, B. T. Note on the effect of light on uroroporphyrin, 437
STARKING, M. W. see DUDLEY, H. W.
STEDMAN, E. and STEDMAN, E. Haemocyanin. Part IV. The dependence of the shape of the oxygen dissociation curve on the state of ionisation of the protein, 533
Sterol colour reactions, relation of, to vitamin A (Rosenheim), 386
Sterols, attraction of proteins of plasma for (Gardner and Gainsborough), 141
Vitamin B deficiency, in pigeons, relation of inanition to (Marrian, Baker, Drummond and Woollard), 1336

Vitamin B-deficient diet, effect of glycine on pigeons on (Kon), 837

Vitamin B-deficient diets, temporary spontaneous disappearance of beriberi symptoms in pigeons on (Kon), 834

Vitamin B potency of cereals (Plimmer, Rosedale, Raymond and Lowndes), 1141

Vitamin C of lemon juice (Zilva), 689; (Hoyle and Zilva), 1121

preparation of, from lemon juice (Zilva), 354

Vitamin D, absorption of, from skin (Hume, Lucas and Smith), 362

and the absorption spectrum of cholesterol (Heilbron, Kamm and Morton), 78

parent substance of (Rosenheim and Webster), 269

relation of cholesterol to (Rosenheim and Webster), 127

search for, in Nitzschia closterium (Leigh-Clare), 368

Vitamin D content of stomach oil of Australian petrel (Leigh-Clare), 725

Vitamins A and D of spinach (Willimott and Wokes), 887

Watchorn, E. and Holmes, B. E. Studies in the metabolism of tissues growing in vitro. II. Effect of glucose upon the ammonia and urea production of kidney tissue, 1391

Watchorn, E. see also Holmes, B. E.

Watson, A. F. and Langstaff, E. A note on the ammonium sulphate precipitation of the active principle of the culture filtrates of C. phytophthora, 426

Webster, T. A. see Rosenheim, O.

Wheat shoots, etiolated, vitamin A formation in (Moore), 870

Widdows, S. T. see Lowenfeld, M. F.

Wigglesworth, V. B. Digestion in the cockroach. I. The hydrogen ion concentration in the alimentary canal, 791

Wigglesworth, V. B. Digestion in the cockroach. II. The digestion of carbohydrates, 797

Wigglesworth, V. B. see also Woodrow, C. E.

Williams, R. R. A note on the effects on pigeons of an exclusive diet of rice meal, bran and polish, 1349

Willimott, S. G. and Moore, T. The feeding of xanthophyll to rats on a diet deficient in vitamin A, 86

Willimott, S. G. and Wokes, F. Vitamins A and D of spinach, 887

Willimott, S. G. see also Moore, T., Redman, T., and Wokes, F.

Wilson, W. H. Reaction of fatty extracts of certain organs with the antimony trichloride test for vitamin A. (Preliminary note), 1054

Winter, L. B. The fate of deoxy-glucose in the rabbit, 54

Winter, L. B. On the isolation from tissues of certain pentose derivatives, 467

Wokes, F. and Willimott, S. G. A study of the effect of heat and oxidation on cod-liver oil as measured by colour tests, 419

Wokes, F. see also Redman, T., and Willimott, S. G.

Woodley, J. W. A. see Butcher, J. W.

Woodrow, C. E. and Wigglesworth, V. B. The production of lactic acid in frog's muscle in vivo, 812

Woodbridge, W. R. see Quastel, J. H.

Woollard, H. see Marrian, G. F.

Wormald, A. see Platt, B. S.

X-rays, action of, on cholesterol (Hieger), 407

Xanthine oxidase, specificity of system of (Coombs), 1259

Xanthophyll, effect of, on rats, on a diet deficient in vitamin A (Willimott and Moore), 86

Yaoi, H. and Nakahara, W. The glutathione content of chicken sarcoma: a rejoinder, 1277

Yeast, alcoholic fermentation by, effect of fatty acids and hydroxy-acids and their salts on (Katagiri), 494

dietary factors in, relation of, to growth of rats on protein-rich diets (Hassan and Drummond), 653

growth of, effect of volume of medium on (Peckett), 104

metabolism, carbohydrate and fat, of (Daubney and Smedley MacLean), 373

synthesis of antineuritic factor by (Hawking), 728; (Peckett), 1102

Yeast concentrates, antineuritic (Kinnear and Peters), 777

Yeast-fat, unsaponifiable matter of (Daubney and Smedley MacLean), 869

Yeast growth (Peckett), 460

Yeast-juice, preparation of, by Buchner's method (Harden and Henley), 196

Yeast suspensions, nephelometric method of counting (Peckett), 460

Zilva, S. S. A note on the precipitation of the antiscorbutic fraction from lemon juice, 354

Zilva, S. S. The antiscorbutic fraction of lemon juice. V, 689

Zilva, S. S. see Hoyle, E.
### PRICES OF BACK NUMBERS AND VOLUMES.

**In Paper covers.**

<table>
<thead>
<tr>
<th>Volumes</th>
<th>Price</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>I–VI</td>
<td>31s. 6d. net per vol.</td>
<td>(Out of print.)</td>
</tr>
<tr>
<td>VII–X</td>
<td>5s. 6d. net.</td>
<td>(By post, 5s. 6d.)</td>
</tr>
<tr>
<td>Index of Authors and Subjects in Volumes I–X.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XI–XVI</td>
<td>5s. 6d. net.</td>
<td>(Out of print.)</td>
</tr>
<tr>
<td>XVII–XVIII</td>
<td>60s. net per vol.</td>
<td>(Out of print.)</td>
</tr>
<tr>
<td>XIX</td>
<td>60s. net.</td>
<td></td>
</tr>
<tr>
<td>XX</td>
<td>60s. net.</td>
<td></td>
</tr>
</tbody>
</table>

Quotations can be given by the publishers for bound copies of back numbers.

---

**For Notice to Contributors see page 2 of Wrapper**

---

### WANTED

**Biochemical Journal**

**COMPLETE SET**

also

YEARS 1921—1926

(BOUND)

and

VOLUMES 7 TO 15

(BOUND OR UNBOUND)

Kindly send all particulars to

T.F.D.

Wm. Dawson & Sons, Ltd.

Cannon House, Bream's Buildings

London, E.C.4
THE BIOCHEMICAL JOURNAL

EDITED FOR THE BIOCHEMICAL SOCIETY

BY

HAROLD WARD DUDLEY

AND

ARTHUR HARDEN

Index of Authors and Subjects
Vols. XI—XX

CAMBRIDGE UNIVERSITY PRESS
London: Fetter Lane, E.C. 4

also
H. K. LEWIS & Co., Ltd., 136, Gower Street, London, W.C. 1
WHELDON AND WESLEY, Ltd., 2–4, Arthur Street, New Oxford Street, W.C. 2

CHICAGO: The University of Chicago Press
(Agent for the United States)
BOMBAY, CALCUTTA, MADRAS: Macmillan and Co., Ltd.

1927
Price Ten Shillings nett
(Per Post 10s. 4d.)

PRINTED IN GREAT BRITAIN
The *Biochemical Journal* is conducted by the Biochemical Society and is published by the Cambridge University Press.

This Society has been instituted for the purpose of facilitating intercourse between those biologists and chemists who are interested in the investigation of problems common to both, such as the chemical problems connected with Agriculture, Brewing, Animal and Vegetable Physiology and Pathology, &c. Persons interested in Biochemistry are eligible for election.

Meetings are held at different centres for the communication of papers to the Society.

The annual subscription is 35s., which includes a copy of the Journal, and becomes due on January 1st. Further information may be obtained on application to the Hon. Sec., Dr H. D. Kay, Medical Unit, London Hospital, Whitechapel, London, E. 1, or to the Hon. Treas., Mr J. Addyman Gardner, 13 Campden Grove, Kensington, W. 8, to whom subscriptions should be sent.

Papers for publication should be sent to Prof. A. Harden, F.R.S., Lister Institute, Chelsea Gardens, S.W. 1. Communications respecting the printing of the articles, or respecting the purchase of offprints should be addressed to the University Press, Cambridge.

The Journal is issued about every two months and the date at which each paper is received by the editors is printed at the beginning of the paper.

All communications respecting the purchase of copies of the parts or volumes, whether current or back issues, or respecting subscriptions in the case of non-members of the Biochemical Society (£3 net per volume (post free) payable in advance) should be addressed to The Cambridge University Press, Fetter Lane, London, E.C. 4, or to the Hon. Treas., Mr J. Addyman Gardner, 13 Campden Grove, Kensington, W. 8. For prices of back numbers and volumes see list on p. 4 of Wrapper.

Quotations can be given for Buckram binding cases and for binding Subscribers' Sets.

The Cambridge University Press has appointed the University of Chicago Press agent for the sale of the *Biochemical Journal* in the United States of America and has authorised the following subscription price. $15.00 net.
INDEX OF AUTHORS

VOLS. 11—20

ACTON, H. W. and KING, H. The nephelometric estimation of quinine in blood, 1921, 15, 53
ADAIR, G. S. The penetration of electrolytes into gels. II. The application of Fourier's linear diffusion law, 1920, 14, 702
ADAIR, G. S. see also STILES, W.
ADAM, N. K. A modification of the Barcroft and Winterstein micro-respirometers, 1920, 14, 679
ADAM, N. K. Note on the oxygen consumption of amphibian muscle and nerve, 1921, 15, 143BISDALL
ADKINS, D. M. Digestibility of germinated beans, 1920, 14, 637
ALLAN, F. N. see Sokhey, S. S.
ALLOTT, E. N. The influence of glutathione on the oxidation of fats and fatty acids, 1926, 20, 566
ALFORT, A. C. The accurate estimation of calcium in whole blood, 1924, 18, 455
ANDERSON, A. B. and CARRUTHERS, A. Studies on carbohydrate metabolism. I. The relation between optical activity and reducing power of normal blood filtrates. II. A note on the interaction of muscle tissue, insulin and glucose, 1926, 20, 603
ANDERSON, G. H. The inorganic phosphorus content of the blood of normal children. (Preliminary communication), 1923, 17, 43
ANDRESEN, K. G. see KROOK, A.
ANDREWES, F. A. Observations on the accuracy of different methods of measuring small volumes of fluid, 1919, 13, 37
ANDREWS, S. The phosphate metabolism in fatigued mammalian muscle, 1925, 19, 242
ANDREWS, S., BEATTIE, F. and MILKOV, T. H. The acid-base exchange in mammalian voluntary muscle, 1924, 18, 993
ANNETT, H. E. Occurrence of raffinose in the seed of the poppy plant (Corchorus capenulare), 1917, 11, 112
ANNETT, H. E. Factors influencing alkaloidal content and yield of latex in the opium poppy (Papaver somniferum), 1920, 14, 618
ANNET, H. E. The enzymes of the latex of the Indian poppy (Papaver somniferum), 1922, 18, 765
ARCHIBALD, W. see STEWART, C. P.
ARCHENHUS, S. The viscosity of solutions, 1917, 11, 112
ATKINS, W. R. G. and PANTIN, C. F. A. A buffer mixture for the alkaline range of hydrogen ion concentration determinations, 1926, 20, 102
ATKINS, W. R. G. and WILSON, E. G. The colorimetric estimation of minute amounts of compounds of silicon, of phosphorus and of arsenic, 1926, 20, 1223

Bioch.

ATKINSON, E. and HAZLETON, E. O. A qualitative tannin test, 1922, 16, 516
AZUMA, R. and HARTEE, W. The absence of effect of insulin on the heat production in isolated frog's muscle, 1923, 17, 875

BACHARACH, A. L. A note on the basal vitamin B-free diet of Drummond and Watson, 1925, 19, 638
BACHARACH, A. L. see also JEFFCOCK, H.
BACOT, A. W. and HARDEN, A. Vitamin requirements of Drosophila. I. Vitamins B and C, 1922, 16, 148
BAIRD, W. H. see TREVAN, J. W.
Baker, J. L. and HULTON, H. F. E. The iodimetric estimation of sugars, 1920, 14, 754
BAKER, W. E. see THAYSEN, A. C.
BARCROFT, J. see SCOTT, J. M. D.
BARGER, G. and EWINS, A. J. The synthesis of Pr-2-methyltryptophan, 1917, 11, 58
BARGER, G. and TUTIN, F. Carnosine, constitution and synthesis, 1918, 12, 402
BARGER, G. and WHITE, F. D. The constitution of galegine, 1923, 17, 827
BARGER, G. and WHITE, F. D. Galuteolin, a new glucoside from Galega officinalis, 1923, 17, 836
BARNES, R. E. and HUME, E. M. Relative antiscorbutic value of fresh, dry and heated cow's milk, 1919, 13, 306
BARRATT, J. O. W. The action of thrombin upon fibrinogen, 1920, 14, 189
BARRATT, J. O. W. The action of sodium hydroxide upon coagulation of fibrinogen, 1921, 15, 4
BARRATT, J. O. W. Hydrolytic dissociation curves, 1925, 19, 875
BARTON-WRIGHT, E. C. see DOREEE, C.
BEATTIE, F. see ANDREWS, S.
BERKELEY, C. On the occurrence of manganese in the tube and tissues of Mesochactopterus taylori, Potts, and in the tube of Chaetoclonchus variopedatus, Renier, 1922, 16, 70
BEZSSONOFF, N. A simplified method of preparation of the Bezssonoff reagent for vitamin C and some polyphenols, 1923, 17, 429
BEZSSONOFF, N. Necessary conditions for testing with the reagent for vitamin C, 1924, 18, 384
BILOZERSKI, A. N. see BLAGOVESCHENSKI, A. V.
BLAGOVESCHENSKI, A. V. On the specific action of plant proteases, 1924, 18, 795
BLAGOVESCHENSKI, A. V. and BILLOZERSKI, A. N. The specific action of plant ferments. II. The specific conditions of action of leaf peptases, 1925, 19, 355

A
INDEX OF AUTHORS

BLAGOVESCHENSKI, A. V. and SOSSIDOV, N. I. The specific action of plant ferments. I. The specific conditions of action of leaf invertases, 1925, 18, 350

BOAS, M. A. An observation on the value of egg-white as the sole source of nitrogen for young growing rats, 1924, 18, 422

BOAS, M. A. A method for estimating the retention of calcium and phosphorus in young growing rats, 1924, 18, 425

BOAS, M. A. A further note on the value of egg-white as the sole source of nitrogen for young growing rats, 1924, 18, 1322

BOAS, M. A. The antirachitic value of winter spinach, 1926, 20, 153

BOAS, M. A. and CHICK, H. The influence of diet and management of the cow upon the deposition of calcium in rats receiving a daily ration of milk in their diet, 1924, 18, 433

BOLT, N. A. and HEERES, P. A. On the influence of the spleen upon red blood-corporules. I, 1922, 16, 754

BOND, M. A modification of basal diet for rat feeding experiments, 1922, 16, 479

BOOCK, E. and TREVAN, J. The food value of mangolds and the effects of deficiency of vitamin A on guinea-pigs, 1922, 16, 780

BORSOOK, H. and WASTEENYS, H. The interaction of free amino-nitrogen and glucose, 1925, 19, 1128

BORSOOK, H. see also HUNTER, A.

BOX, C. R. see MELLANGY, J.

BRADFORD, S. C. Adsorptive stratification in gels. II, 1917, 11, 14

BRADFORD, S. C. On the theory of gels. I, 1918, 12, 351

BRADFORD, S. C. Adsorptive stratification in gels. III, 1920, 14, 29

BRADFORD, S. C. On the theory of gels. II. The crystallisation of gelatin, 1920, 14, 91

BRADFORD, S. C. Adsorptive stratification in gels. IV, 1920, 14, 474

BRADFORD, S. C. On the theory of gels. III, 1921, 15, 553

BRADFORD, S. C. An improvised electric thermostat constant to 0.02°, 1922, 16, 49


BRADFORD, S. C. A simple electric thermo-regulator, 1924, 18, 381

BRAHMACHARI, U. N. and SEN, P. Some observations on the haemolytic action of certain quinine salts on the erythrocytes of different individuals and on the resistance of newly formed red corpuscles to haemolysis under the influence of distilled water, 1921, 15, 465

BRIGGS, G. E. A further note on the kinetics of enzyme action, 1925, 19, 1037

BRIGGS, G. E. The relation of the enzymes trypsin and pepsin to their substrates, 1926, 20, 574

BRIGGS, G. E. and HALDANE, J. B. S. Note on the kinetics of enzyme action, 1925, 19, 335

BROUWER, E. Note on anaemia, urbinilinuria and intestinal haemorrhage in rabbits in consequence of exclusive nutrition with cow’s and goat’s milk, 1926, 20, 105

BROWN, H. C. see HENRY, T. A.

BROWN, W. Further contributions to the technique of preparing membranes for dialysis, 1917, 11, 40

BROWNLEE, J. On the position of the optimum temperature of the action of a ferment or lysin, 1924, 18, 16

BROWNLEE, J. An arithmetical test of the validity of the theory of Bayliss regarding fermentation and adsorption, 1925, 19, 162

BROWNLEE, J. On the methods of fitting the formula of Michaelis in relation to the effect of hydrogen ion concentration on enzyme action to the data: with some discussion of the results, 1925, 19, 377

BRUCE, J. R. Changes in the chemical composition of the tissues of the herring in relation to age and maturity, 1924, 18, 469

BRUCE, J. R. The respiratory exchange of the mussel (Mytilus edulis, L.), 1926, 20, 829

BULLEY, E. C. Note on xerophthalmia in rats, 1919, 13, 103

BUNKER, H. J. see THAYSEN, A. C.

BURNS, D. A note on the effect of purgation on the creatinine content of urine, 1920, 14, 94

BURTT, A. W. see MORGAN, G. T.

BUSHILL, J. H. see LING, A. R.

BUSTON, H. W. and SCHRYVER, S. B. A method for the separation of amino-acids from the products of hydrolysis of proteins and other sources. (Preliminary communication), 1921, 16, 636

BUSTON, H. W. and SCHRYVER, S. B. The isolation from cabbage leaves of a carbohydrate, hitherto undescribed, containing three carbon atoms, 1923, 17, 470

BUTLER, W. and COSTE, J. H. Seasonal variations in the dissolved oxygen content of the water of the Thames Estuary. (With special reference to the phenomenon of supersaturation), 1923, 17, 49

CAHEN, E. and HURTLEY, W. H. The oxidation of the alkali butyriates by hydrogen peroxide with the production of succinic acid, 1917, 11, 164

CALLOW, A. B. The oxygen uptake of bacteria, 1924, 18, 507

CALLOW, A. B. The heat-stable peroxidase of bacteria, 1926, 20, 247

CALLOW, A. B. and ROBINSON, M. E. The nitroprusside reaction of bacteria, 1925, 19, 19

CALLOW, E. H. The autolysis of the muscle of the cod fish, 1925, 19, 1

CALLOW, E. H. and HELE, T. S. Studies in the sulphur metabolism of the dog. III. The effect of benzene and of some derivatives of benzene on sulphur metabolism, 1926, 20, 598

CALVERT, E. G. B. Estimation of sugar in the blood, 1923, 17, 117

CALVERT, E. G. B. Estimation of sugar in the blood, 1924, 18, 839

CAMPBELL, J. A. Nitrogen partition in the urine of the races in Singapore, 1919, 13, 239
INDEX OF AUTHORS

CLARK, A. B. see RAISTRICK, H. and STEPHENSON, M.
CLARKE, G. and SCHERRY, S. B. The preparation of plant nucleic acids, 1917, 11, 319
CLIFFORD, W. M. A method for the colorimetric estimation of carnosine, 1921, 15, 400
CLIFFORD, W. M. The distribution of carnosine in the animal kingdom, 1921, 15, 725
CLIFFORD, W. M. The effect of cold storage on the carnosine content of muscle, 1922, 16, 341
CLIFFORD, W. M. The catalytic destruction of carnosine in vitro, 1922, 16, 792
CLIFFORD, W. M. A heat-stable catalyst in animal tissues which destroys the iminazole ring and unmarks amino groups, 1923, 17, 549
CLIFFORD, W. M. The hydrolysis of protein by a heat-stable catalyst present in muscle, 1924, 18, 669
CLIFFORD, W. M. The effect of halogen salts on salivary digestion, 1925, 19, 218
CLIFFORD, W. M. The effect of short periods of cold storage on beef and mutton, 1925, 19, 998
CLUTTERBUCK, P. W. and RAFFER, H. S. A study of the oxidation of the ammonium salts of normal saturated fatty acids and its biological significance, 1925, 19, 385
CLUTTERBUCK, P. W. and RAFFER, H. S. The fate in the animal body of phenylsaccharinic acid and β-phenylhexoic acid, 1925, 19, 911
COATES, V. and RAIMENT, P. C. The calcium content of the blood serum in cases of gout, 1924, 18, 921
COHEN, A. Xylenol blue and its proposed use as a new and improved indicator in chemical and biochemical work, 1922, 16, 31
COHEN, A. Bromoxylenol blue. A true-neutrality point indicator, 1923, 17, 535
COHEN, H. Estimation of uric acid by Benedict’s method, 1924, 18, 1327
COHEN, I. The occurrence of diastase in the cerebrospinal fluid, 1925, 19, 290
COHEN, I. The concentration of diastase in the urine throughout the day, 1926, 20, 253
COHEN, J. B. and DAWSON, E. R. T.
COMPTON, A. Blood enzymes. I. On the occurrence of maltase in mammalian blood, 1921, 15, 681
COMPTON, A. Blood enzymes. II. The influence of temperature on the action of the maltase of dog’s serum, 1922, 16, 490
COMPTON, A. Blood enzymes. III. On the glycojenolytic activity of mammalian sera—with remarks on serum toxicity, 1923, 17, 536
COMPTON, A. Blood enzymes. IV. Studies on the maltase of dog’s serum: influence on activity of the reaction of the medium, and of the state of digestion, 1924, 18, 173
CONNELL, S. J. B. The colorimetric estimation of protein, 1924, 18, 1157
CONNELL, S. J. B. and ZILVA, S. S. The reducing properties of antiscorbutic preparations, 1924, 18, 638
CONNELL, S. J. B. and ZILVA, S. S. The differential dialysis of the antiscorbutic factor, 1924, 18, 641
COOMBS, H. I. and HELE, T. S. Studies in the sulphur metabolism of the dog. IV. The mechanism of mercapturic acid formation in the dog, 1926, 20, 606
COOMBS, H. I. and STEPHENSON, M. The chemistry of the hemicellulose of plants, 1921, 460
COORNS, H. I. and HELE, T. S. Studies in the sulphur metabolism of the dog. III. The hemicellulose of plants, 1921, 493
COOPER, E. A. Dentrification as a means of sewage purification, 1921, 15, 513
COOPER, E. A. The action of paraldehyde upon proteins and lipins, 1924, 18, 948
COOPER, E. A. and COOPER, A. E. On the importance of geological factors in sewage purification, 1918, 12, 275
COOPER, E. A. and EDGAR, S. H. The biological significance of cis-trans isomerism, 1926, 20, 1060
COOPER, E. A. and FORSTNER, G. E. Studies on selective bactericidal action, 1924, 18, 941
COOPER, E. A. and Heward, J. A. Observations on the albuminoid ammonia test, 1919, 13, 25
COOPER, E. A. and NICHOLAS, S. D. The solubility of proteins and proteoses in aldehydes and other organic solvents, 1925, 19, 533
COOPER, E. A. and WALKER, H. The nature of the reducing substance in human blood, 1921, 15, 415
COOPER, E. A. and WALKER, H. Further observations on the nature of the reducing substance in human blood, 1922, 16, 455
COOPER, E. A. and WOODHOUSE, D. L. On the relations of the phenols and their derivatives to proteins. A contribution to our knowledge of the mechanism of disinfection. Part IV. The halogen phenols, 1923, 17, 600
COOPER, E. A. see also COOPER, A. E. and MOY, E. R. T.
CORMACK, G. A. Fat content of breads and cereals, 1926, 20, 1052
CORNISH, E. C. V. and WILLIAMS, R. S. Colour changes produced by two groups of bacteria upon caseinogen and certain amino-acids, 1917, 11, 180
### INDEX OF AUTHORS

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corran, J. W. and Lewis, W. C. M.</td>
<td>The hydrogen ion concentration of the whole blood of normal males and of cancer patients measured by means of the quinhydrone electrode, 1924, 18, 1358</td>
</tr>
<tr>
<td>Corran, J. W. and Lewis, W. C. M.</td>
<td>Lecithin and cholesterol in relation to the physical nature of cell membranes, 1924, 18, 1364</td>
</tr>
<tr>
<td>Coste, J. H.</td>
<td>see Butler, W.</td>
</tr>
<tr>
<td>Coward, K. H.</td>
<td>The formation of vitamin A in plant tissues. II, 1923, 17, 134</td>
</tr>
<tr>
<td>Coward, K. H.</td>
<td>The association of vitamin A with the lipochromes of plant tissues, 1923, 17, 145</td>
</tr>
<tr>
<td>Coward, K. H.</td>
<td>Some observations on the extraction and estimation of lipochromes from animal and plant tissues, 1924, 18, 1114</td>
</tr>
<tr>
<td>Coward, K. H.</td>
<td>The lipochromes of etiolated wheat seedlings, 1924, 18, 1123</td>
</tr>
<tr>
<td>Coward, K. H.</td>
<td>Synthesis of vitamin A by a fresh-water alga, Chlorella (ep.?), 1925, 19, 240</td>
</tr>
<tr>
<td>Coward, K. H.</td>
<td>The persistence of vitamin A in plant tissues, 1925, 19, 500</td>
</tr>
<tr>
<td>Coward, K. H. and Drummond, J. C.</td>
<td>Researches on the fat-soluble accessory substance. IV. Nuts as a source of vitamin A, 1920, 14, 665</td>
</tr>
<tr>
<td>Coward, K. H. and Drummond, J. C.</td>
<td>The formation of vitamin A in living plant tissues, 1921, 15, 676</td>
</tr>
<tr>
<td>Coward, K. H. and Drummond, J. C.</td>
<td>On the significance of vitamin A in the nutrition of fish, 1922, 16, 631</td>
</tr>
<tr>
<td>Coward, K. H.</td>
<td>see also Drummond, J. C., Golding, J., Jameson, H. L. and Zilva, S. S.</td>
</tr>
<tr>
<td>Craig, J. M. and Rahnston, C. R.</td>
<td>Disturbances in metabolism. I. Variations in protein metabolism as indicated by sulphur excretion, 1924, 18, 85</td>
</tr>
<tr>
<td>Craemer, W.</td>
<td>On the biochemical mechanism of growth. The effect of sodium and calcium ions on the growth of a transplantable mouse carcinoma, 1918, 12, 210</td>
</tr>
<tr>
<td>Crevel, S. van</td>
<td>Some experiments and remarks on the possible transformation of d-glucose in the intestine and on the action of blood-sugar, 1923, 17, 880</td>
</tr>
<tr>
<td>Crichton, A.</td>
<td>see McGowan, J. P. and P. M. R. H. A.</td>
</tr>
<tr>
<td>Crowther, C. and Hynd, A.</td>
<td>The distribution of fatty acids in the milk fat of the cow and sheep, 1917, 11, 139</td>
</tr>
<tr>
<td>Cruickshank, E. W. H.</td>
<td>Studies in experimental tetany. III. On alkalosis and acidosis. IV. On the hydrogen ion concentration of the blood. V. On the alveolar carbon dioxide tension, 1924, 18, 47</td>
</tr>
<tr>
<td>Crump, L. M.</td>
<td>see Cutler, D. W.</td>
</tr>
<tr>
<td>Cullis, W. C. and Hewer, E. E.</td>
<td>The “ammonia coefficient” of pregnancy, 1920, 14, 757</td>
</tr>
<tr>
<td>Currie, A. N.</td>
<td>Note on the separation of a fat pigment from accompanying fat, 1924, 18, 231</td>
</tr>
<tr>
<td>Currie, A. N.</td>
<td>The lipochrome of adipose tissue in malignant disease, 1924, 18, 235</td>
</tr>
<tr>
<td>Currie, A. N.</td>
<td>A method for the estimation of small quantities of copper in tissues, 1924, 18, 1224</td>
</tr>
<tr>
<td>Cuthbertson, D. P.</td>
<td>The distribution of phosphorus and fat in the resting and fatigued muscle of the cat, with a note on the partition of phosphorus in the blood, 1925, 19, 896</td>
</tr>
<tr>
<td>Cutler, D. W. and Crump, L. M.</td>
<td>The influence of washing on the reproductive rate of Colpidium colpoda, 1925, 19, 450</td>
</tr>
<tr>
<td>Dakin, H. D.</td>
<td>On amino-acids. Part I, 1918, 12, 290</td>
</tr>
<tr>
<td>Dakin, H. D. and Dale, H. F.</td>
<td>Chemical structure and antigenic specificity. A comparison of the crystalline egg-albumins of the hen and the duck, 1919, 13, 248</td>
</tr>
<tr>
<td>Dale, H. F.</td>
<td>see Dakin, H. D.</td>
</tr>
<tr>
<td>Daniel, K. J. and Doran, W.</td>
<td>Some chemical constituents of the mussel (Mytilus edulis), 1926, 20, 676</td>
</tr>
<tr>
<td>Daunsey, C. G. and Zilva, S. S.</td>
<td>The action of reducing agents on the antiscorbutic factor inactivated by aeration, 1926, 20, 519</td>
</tr>
<tr>
<td>Daunsey, C. G. and Zilva, S. S.</td>
<td>The antiscorbutic fraction of lemon juice. IV, 1926, 20, 1055</td>
</tr>
<tr>
<td>Davy, A. J.</td>
<td>Determination of the minimum doses of some fresh Citrus fruit juices which will protect a guinea-pig from scurvy, together with some observations on the preservation of such juices, 1921, 15, 83</td>
</tr>
<tr>
<td>Davis, J. G. and Slater, W. K.</td>
<td>The aerobic and anaerobic metabolism of the common cockroach (Periplaneta orientalis), 1926, 20, 1167</td>
</tr>
<tr>
<td>Davis, J. G., Slater, W. K. and Smith, V.</td>
<td>A thermal study of a possible source of energy in anaerobic metabolism with some notes on the properties of sorbitol, 1926, 20, 1155</td>
</tr>
<tr>
<td>Dawson, E. R.</td>
<td>see also Platt, B. S.</td>
</tr>
</tbody>
</table>
| Delp, E. M. | The antiscorbutic value of cabbage. I. The antiscorbutic and growth-promoting properties of raw and heated
INDEX OF AUTHORS

cabbage. With an appendix by Tozer, F. M. On the histological diagnosis of experimental scurvy, 1918, 12, 416
Delph, E. M. Effect of heat on the antiscorbutic accessory factor of vegetable and fruit juices, 1920, 14, 211
Delph, E. M. On the properties of certain S. African oils with respect to their content of vitamin A, 1924, 18, 93
Delph, E. M. The antiscorbutic value of fresh and canned English tomatoes, 1924, 18, 674
Delph, E. M. The influence of storage on the antiscorbutic value of fruits and vegetable juice, 1925, 19, 141
Delph, E. M. and Skelton, R. F. The antiscorbutic value of cabbage. II. The effect of drying on the antiscorbutic and growth-promoting properties of cabbage, 1918, 12, 445
Delph, E. M. see also Chick, H.
Dickens, F., Dodds, E. C. and Wright, S. Observations upon the preparation and standardisation of the ovarian hormone, 1929, 19, 853
Dickens, F. see also Davies, D. T.
Distaso, A. and Suginen, J. H. Entero-intoxication—its causes and treatment, 1919, 13, 153
Dixon, M. Studies on xanthine oxidase. V. The function of catalase, 1925, 19, 507
Dixon, M. Studies on xanthine oxidase. VII. The specificity of the system, 1926, 20, 703
Dixon, M. and Kodama, K. On the further purification of xanthine oxidase, 1926, 20, 1104
Dixon, M. and Thurlow, S. Studies on xanthine oxidase. I. Preparation and properties of the active material, 1924, 18, 971
Dixon, M. and Thurlow, S. Studies on xanthine oxidase. II. The dynamics of the oxidase system, 1924, 18, 976
Dixon, M. and Thurlow, S. Studies on xanthine oxidase. III. The reduction of nitrates, 1924, 18, 989
Dixon, M. and Thurlow, S. Studies on xanthine oxidase. VI. A cell oxidation system independent of iron, 1925, 19, 672
Dockray, G. C. see Fearon, W. R.
Dodds, E. C., Lawson, W. and Mottram, J. C. Some metabolic differences, following X-radiation, between normal rats and rats immune to Jensen's rat sarcoma, 1925, 19, 750
Dodds, E. C. see also Davies, D. T. and Dickens, F.
Donegan, J. F. see Milroy, T. H.
Doran, W. see Daniel, R. J.
Douéé, C. The action of sea water on cotton and other textile fabrics, 1920, 14, 709
Douéé, C. and Barton-Wright, E. C. The stone cells of the pear, 1926, 20, 502
Dowds, J. H. A note on the distribution of reducing sugar and the mode of glycolysis in human blood, 1926, 20, 1173
Drummond, J. C. The nitrogenous extractives of tomatoes, 1917, 11, 245
Drummond, J. C. A study of the water-soluble accessory growth-promoting substance in yeast, 1, 1917, 11, 255
Drummond, J. C. A comparative study of tumour and normal tissue growth, 1917, 11, 325
Drummond, J. C. Observations on the phosphotungstic acid of certain bases and amino acids, 1918, 12, 5
Drummond, J. C. A study of the water-soluble accessory growth-promoting substance. II. Its influence upon the nutrition and nitrogen metabolism of the rat, 1918, 12, 25
Drummond, J. C. Note on the role of the antiscorbutic factor in nutrition, 1919, 13, 77
Drummond, J. C. Researches on the fat-soluble accessory substance. I. Observations upon its nature and properties, 1919, 13, 81
Drummond, J. C. Researches on the fat-soluble accessory substance. II. Observations on its role in nutrition and influence on fat metabolism, 1919, 13, 95
Drummond, J. C. The nomenclature of the so-called accessory food factors (vitamins), 1920, 14, 660
Drummond, J. C., Channon, H. J. and Coward, K. H. Studies on the chemical nature of vitamin A, 1925, 19, 1047
Drummond, J. C. and Coward, K. H. Researches on the fat-soluble accessory substance. III. Technique for carrying out feeding tests for vitamin A (fat-soluble A), 1920, 14, 661
Drummond, J. C. and Coward, K. H. Researches on the fat-soluble accessory substance. V. The nutritive value of animal and vegetable oils and fats considered in relation to their colour, 1920, 14, 668
Drummond, J. C. and Coward, K. H. Researches on the fat-soluble accessory factor (vitamin A). VI. Effect of heat and oxygen on the nutritive value of butter, 1920, 14, 734
Drummond, J. C., Coward, K. H. and Handy, J. On the technique of testing for the presence of vitamin A, 1925, 19, 1068
Drummond, J. C., Coward, K. H. and Watson, A. F. Researches on vitamin A. VII. Notes on the factors influencing the value of milk and butter as sources of vitamin A, 1921, 15, 540
Drummond, J. C., Golding, J., Zilva, S. S. and Coward, K. H. The nutritive value of lard, 1920, 14, 742
Drummond, J. C. and Marshan, G. F. The physiological rôle of vitamin B. I. The relation of vitamin B to tissue oxidations, 1926, 20, 1229
Drummond, J. C. and Zilva, S. S. with the cooperation of Coward, K. H. The origin of the vitamin A in fish oils and fish liver oils, 1922, 19, 518
Drummond, J. C. see also Coward, K. H., Golding, J., Halliburton, W. D., Jameson, H. L., Peach, E. A., Reader, V., Rosenheim, O. and Zilva, S. S.
DUDLEY, H. W. The purification of insulin and some of its properties, 1923, 17, 376
DUDLEY, H. W. Insulin from the cod fish. The direct application of picric acid to the islet of Langerhans, 1924, 656
DUDLEY, H. W. The intermediary metabolism of carbohydrates. Glycolysis, the normal of insulin, 1926, 20, 314
DUDLEY, H. W. and EVANS, C. L. A method for the preparation of euglobulin, 1924, 236
DUDLEY, H. W. and MARRIAN, G. F. The effect of insulin on the glycogen in the tissues of normal animals, 1923, 17, 435
DUDLEY, H. W., ROSENHEIM, M. C. and ROSENHEIM, O. The chemical constitution of spermine. I. The isolation of spermine from animal tissues and the preparation of its salts, 1924, 18, 1293
DUDLEY, H. W. and ROSENHEIM, O. The chemical constitution of spermine. II. The methylation of spermine, 1925, 19, 1032
DUDLEY, H. W. and ROSENHEIM, O. Notes on spermine, 1925, 19, 1034
DUDLEY, H. W., ROSENHEIM, O. and STARRLING, W. W. The chemical constitution of spermine. III. Structure and synthesis, 1925, 19, 1115
DUDLEY, H. W. and STARRLING, W. W. Improvements in the preparation of insulin. Alkaline extraction of pancreas, 1924, 18, 147
DUDLEY, H. W. and THORPE, W. V. A synthesis of N,N-methylputrescine and of putrescine, 1925, 19, 845
DUDLEY, H. W. and WOODMAN, H. E. The proteins of cow's colostrum. Part I. The relation between the euglobulin and pseudoglobulin of cow's colostrum, 1918, 12, 339
EADIE, G. S. The effect of substrate concentration on the hydrolysis of starch by the amylase of germinated barley, 1926, 20, 1016
EDGAR, S. H. see COOPER, E. A.
EDIE, E. S. The effect of alcohol on the digestion of fibrin and caseinogen by trypsin, 1919, 13, 219
EDIE, E. S. Further observations on the digestion of fibrin and caseinogen by trypsin, 1921, 15, 498
EDIE, E. S. A note on the question of the identity of gastric rennin and pepsin, 1921, 15, 507
EDSALL, J. T. Studies on phosphates in non-irritable muscle, 1926, 20, 509
EGGLETON, P. The action of pure phosphatides on the perfused heart of the frog, 1926, 20, 395
EGGLETON, P. and GROSS, L. A note on the blood-sugar levels of rats fed with complete diet and diets deficient in vitamin B, 1925, 19, 633
ELLIS, G. W. and GARDNER, J. A. On β-cholesterol, some of its derivatives and oxidation products, 1918, 12, 72
ELLIS, M. T. The examination of the faeces of rabbits fed on a diet of cabbage for the occurrence of a phytosterol, including a note on the phytosterol in cabbage seeds and that in grass fruits, 1918, 12, 154
ELLIS, M. T. Contributions to our knowledge of the plant sterols. Part I. The sterol content of wheat (Triticum sativum), 1918, 12, 160
ELLIS, M. T. Contributions to our knowledge of the plant sterols. Part II. The occurrence of phytosterol in some of the lower plants, 1918, 12, 173
ELMHIRST, R. and SHARPE, J. S. On the colours of two sea anemones, Actinia equina and Anemonia sulcata, 1920, 14, 48
EMMETT, A. M. A comparison of various methods of obtaining ash-free pectin, 1926, 20, 564
EMMETT, A. M. and CARRÉ, M. H. A modification of the calcium pectate method for the estimation of pectin, 1926, 20, 6
ENGELAND, R. A new hydrolysis product from elastin, 1925, 19, 550
EVANS, C. L. Studies on the physiology of plain muscle. IV. The lactic acid content of plain muscle under various conditions, 1925, 19, 1115
EVANS, C. L. Studies on the physiology of plain muscle. V. The influence of caffeine on lactic acid formation, 1926, 20, 893
EVANS, C. L. see also DUDLEY, H. W.
EWING, J. see PEARSALL, W. H.
EWINS, A. J. see BARGER, G.
FAIRBROTHER, F. The dissolution of gelatin, 1924, 18, 647
FEABON, W. R. A study of some biochemical colour tests. No. 1. The thiophen test for lactic acid. A colour test for aldehydes, 1918, 12, 178
FEABON, W. R. Urease. Part I. The chemical changes involved in the zymolysis of urea, 1923, 17, 84
FEABON, W. R. Urease. Part II. The mechanism of the zymolysis of urea, 1923, 17, 800
FEABON, W. R. A study of some biochemical colour tests. No. 3. Colour reactions associated with vitamin A, 1925, 19, 888
FEABON, W. R. and DOCKERLY, G. C. Note on the hydrolysis of cyanic acid, 1926, 20, 13
FEABON, W. R. and FOSTER, D. L. The autoysis of beef and mutton, 1922, 16, 564
FEABON, W. R. and MONTGOMERY, E. G. The chemistry of amino-acid deamination, 1924, 18, 576
FINDLAY, G. M. Glyoxalase in avian beriberi, 1921, 15, 104
FINDLAY, G. M. The effects of an unbalanced diet in the production of guinea-pig scurvy, 1921, 15, 355
FINDLAY, G. M. A preliminary note on the destruction of vitamin B by age, 1923, 17, 857
FINDLAY, G. M. and MACKENZIE, R. Opsonins and diets deficient in vitamins, 1922, 18, 574
INDEX OF AUTHORS

FINDLAY, G. M. and MACLEAN, I. The bacteri-cidal action of the blood in certain dietary deficiencies, 1925, 19, 63

FISHER, E. R. Contributions to the study of the vegetable proteases, 1919, 13, 124

FLETCHER, A. Some oxidation processes of normal and cancer tissue, 1924, 18, 294

FLEMING, N. and THAYSEN, A. C. On the de-terioration of cotton on wet storage, 1920, 14, 25

FLEMING, N. and THAYSEN, A. C. On the de-terioration of cotton on wet storage, 1921, 15, 407

FODOR, A. and REIPENBERG, A. Studies on the nature of the process of germination. A new method for the determination of proteins by means of adsorption applied to the decomposition of proteins in germinating pea seeds, 1925, 19, 188

FODOR, A. and REIPENBERG, A. Researches on the fermentation of dried tobacco. I. The methods for separating nicotine and ammonia, 1925, 19, 927

FODOR, A. and REIPENBERG, A. Researches on the fermentation of dried tobacco. II. The enzymic production of volatile products from nicotine under the influence of tobacco-leaf extracts, 1925, 19, 830

FOLIN, O. Nesslerisation and avoidance of turbidity in nesslerised solutions, 1924, 18, 460


FORSTNER, G. E. see COOPER, E. A.

Foster, D. L. The relation between the pancreas and the carbohydrate metabolism of muscle. II. Antiglyoxalase and glyoxalase, 1922, 16, 757

Foster, D. L. and Moyle, D. M. The effect of exposure to low temperatures on some physiological, chemical and physical properties of amphibian muscle, 1921, 15, 334

Foster, D. L. and Moyle, D. M. A contribution to the study of the interconversion of carbohydrate and lactic acid in muscle, 1921, 15, 672

Foster, D. L. and Woodrow, C. E. The relation between the pancreas and the carbohydrate metabolism of muscle. I. The effect of extracts from the gland on lactic acid production in vitro, 1924, 18, 562

Foster, D. L. see also Fearon, W. R.

FOWWEATHER, F. S. Determination of iron in blood, tissues and urine, 1926, 20, 93

FOX, F. W. and GARDNER, J. A. The sterol content of cow's milk, 1923, 17, 94

FOX, F. W. and GARDNER, J. A. The sterol content of human milk, 1924, 18, 127

FOX, F. W. see also GARDNER, J. A.

FREEAR, K. and VENN, E. C. V. The acidity of eggs, 1924, 14, 499

Frost, I. Artificial parthenogenesis in sea urchins. A note on an improved technique, 1923, 17, 418

FUNK, C. see KOZODZIEJSKA, S., Kon, S. and ZAJDEI, R.

GADDDUM, J. H. The estimation of phosphorus in blood, 1926, 20, 1204

GAINSBOROUGH, H. see GARDNER, J. A.

GALLAGHER, P. H. Mechanism of oxidation in the plant. Part I. The oxygenase of Bach and Brown. The function of lecithins in respiration, 1923, 17, 515

GALLAGHER, P. H. Mechanism of oxidation in the plant. Part II. Investigation of sub-stances which are capable of behaving as peroxydases, 1924, 18, 29

GALLAGHER, P. H. Mechanism of oxidation in the plant. Part III. Peroxydase. Observa-tions on the thermostability of the peroxy-dase of the mangold, 1924, 18, 39

GARRUTT, P. see MASTERS, H.

GARDNER, J. A. On the composition of the unsaponifiable matter of the ether extract of human faeces, 1921, 15, 244

GARDNER, J. A. On the cholesterol content of the bile, blood and flesh of the hippopotamus, 1924, 18, 777

GARDNER, J. A. and FOX, F. W. On the digestibility of cocoa butter, 1919, 13, 368

GARDNER, J. A. and FOX, F. W. Note on a source of error in the colorimetric methods for the estimation of cholesterol in tissue fats, 1921, 15, 376

GARDNER, J. A. and FOX, F. W. A critical study of the methods of estimating cholesterol and its esters in tissues. Part II, 1924, 18, 1058


GARDNER, J. A. and KING, G. Respiratory ex-change in fresh-water fish. Part IV. Further comparison of goldfish and trout, 1922, 16, 729

GARDNER, J. A. and KING, G. Respiratory exchange in fresh-water fish. Part V. On eels, 1922, 16, 736

GARDNER, J. A. and KING, G. Respiratory exchange in fresh-water fish. Part VI. On pike (Esox lucius), 1923, 17, 170


GARDNER, J. A. and WILLIAMS, M. A critical study of the methods of estimating cho-lesterol and allied substances, 1921, 15, 363

GARDNER, J. A. see also ELLIS, G. W. and FOX, F. W.

GAREY, R. C. Note on the estimation of uric acid by the Hopkins-Folin method, 1924, 18, 913

GHOSE, S. N. The examination of some Indian food-stuffs for their vitamin content, 1925, 16, 35

GODDEN, W. see HUSBAND, A. D.

GOLDBLATT, H. A study of the relation of the quantity of fat-soluble organic factor in the diet to the degree of calcification of the bone and the development of expen-mental rickets in rats, 1923, 17, 298

GOLDBLATT, H. Experimental rickets in rats on a purified synthetic diet deficient in phosphorus and fat-soluble organic factor, 1924, 18, 414
INDEX OF AUTHORS

GOLDBLATT, H. and SOAMES, K. M. A study of rate on a normal diet irradiated daily by the mercury vapour quartz lamp or kept in darkness, 1923, 17, 294


GOLDBLATT, H. and SOAMES, K. M. The supplementary value of light rays to a diet graded in its content of fat-soluble organic factor, 1923, 17, 622

GOLDBLATT, M. W. Estimation of acetoacetic acid and β-hydroxybutyric acid in urine, 1925, 19, 626

GOLDBLATT, M. W. Observations on the effect of various carbohydrates on the ketosis of starvation in human subjects, 1925, 19, 948

GOLDING, J., SOAMES, K. M. and ZILVA, S. S. Influence of the cow’s diet on the fat-soluble vitamins of winter milk, 1926, 20, 13036


GOLDING, J., see also DRUMMOND, J. C. and ZILVA, S. S.

GOODSON, J. A. Constituents of the bark of Zanthoxylum macropylum, Oliver, 1921, 15, 123

GOODSON, J. A. The constituents of the flowering tops of Artemisia afra, Jacq., 1922, 16, 1161

GOODWIN, H. W. and ROBSON, R. The possible significance of hexosephosphoric esters in ossification. Part IV. The phosphoric esters of the blood. (Preliminary communication), 1924, 18, 1101

GORDON, J., WHITEHEAD, H. R. and WORMALL, A. The action of ammonia on complement. The fourth component, 1926, 20, 1028

GORDON, J., WHITEHEAD, H. R. and WORMALL, A. Calcium and complement action, 1926, 20, 1036

GORDON, J., WHITEHEAD, H. R. and WORMALL, A. The fourth component of complement and its relation to opsonin, 1926, 20, 1044

GORDON, J. see also McLEROY, J. W. and WHITEHEAD, H. R.

GOTTLEIB, E. On the presence of cyanate in the blood, 1926, 20, 1

GOUGH, A. The nature of the red blood corpuscle, 1924, 18, 202

GRAHAM, M. see ZILVA, S. S.

GREENWALD, I. On the solubility of some pterates and the determination of guanidines in urine, 1926, 20, 665

GREY, E. C. The estimation of succinic acid, 1917, 11, 134

GREY, E. C. The evaluation of the purity of various organic products by the dichromate method, 1923, 17, 768

GREY, E. C. The synthesis of starch from sugar by bacteria, 1924, 18, 712

GREY, F. T. Preparation of colloidal gold for the Lange test, 1924, 18, 448

GRIFFITHS, W. J. see MACLEAN, H.

GROSS, L. The effects of vitamin-deficient diets on the adrenaline equilibrium in the body, 1923, 17, 569

GROSS, L. see also EGGLETON, P.

GROVER, C. E. see CHINTALLI, A. C.

GUY, R. A. Note on the limitations of the modified Lewis-Benedict method of blood-sugar estimation, 1921, 15, 575

HAAS, P. On carrageen (Chondrus crispus). II. On the occurrence of ethereal sulphates in the plant, 1921, 15, 469

HAAS, P. and HILL, T. G. Observations on certain reducing and oxidising reactions in milk, 1923, 17, 671

HAAS, P. and HILL, T. G. Mercurialis. I. The development of a blue pigment on drying, 1925, 19, 233

HAAS, P. and HILL, T. G. Mercurialis. II. The occurrence of a chromogen showing a remarkable avidity for free oxygen, 1925, 19, 236

HAAS, P. and LEE, B. Further observations on certain reducing and oxidising reactions in milk, 1924, 18, 614

HAAS, P. and RUSSELL-WELLS, B. Note on the oxidation of carbohydrates with nitric acid, 1922, 16, 572

HAAS, P. and RUSSELL-WELLS, B. On the significance of the ash content of certain marine algae, 1923, 17, 696

HAGEDORN, H. C. An apparatus for the graphic recording of oxygen consumption and carbon dioxide output, especially adapted for clinical work, 1924, 18, 1301

HALDANE, J. B. S. The production of acidosis by ingestion of magnesium chloride and strontium chloride, 1925, 19, 249

HALDANE, J. B. S. see also BRIGGS, G. E. and STEWART, C. P.

HALDANE, J. S. The extension of the gas laws to liquids and solids. I, 1918, 12, 464

HALSTEADTON, W. D., DRUMMOND, J. C. and CANNAN, R. K. The direct replacement of glycerol in fats by higher polyhydric alcohols. Part II. The value of synthetic mannitol olive oil as a food, 1919, 13, 301

HALLSTEADTON, W. D. and ROSENHEIM, O. The nomenclature of blood pigment and its derivatives, 1919, 13, 195

HANDOVSKY, H. Some observations on the oxidation of phenols by tissues and on the significance of surfaces for biological oxidations, 1926, 20, 1114

HANDY, J. see DRUMMOND, J. C.

HANSMAN, F. S. see MARTLAND, M.

HAPFOLD, F. C. and RAIFER, H. S. The tyrosinase-tyrosine reaction. III. The supposed deaminising action of tyrosinase on amino-acids, 1923, 19, 92

HARDEN, A. The conditions of activation of washed zymín and the specific function of certain cations in alcoholic fermentation, 1917, 11, 64

HARDEN, A. Fermentation by dried yeast preparations, 1925, 19, 477
Harden, A. and Henley, F. R. The effect of pyruvates, aldehydes and methylene blue on the fermentation of glucose by yeast-juice and zymin in presence of phosphate, 1920, 14, 243
Harden, A. and Henley, F. R. The effect of acetaldehyde and methylene blue on the fermentation of glucose and fructose by yeast-juice and zymin in presence of phosphate and arsenate, 1921, 15, 175
Harden, A. and Henley, F. R. The function of phosphates in the oxidation of glucose by hydrogen peroxide, 1922, 16, 143
Harden, A. and Robison, R. The antiscorbutic properties of concentrated fruit-juices. Part III, 1920, 14, 171
Harden, A. and Robison, R. The antiscorbutic properties of concentrated fruit-juices. Part IV, 1921, 15, 521
Harden, A. and Zilva, S. S. Note on the salicyric acid test for liver oils, 1925, 17, 115
Harden, A. and Zilva, S. S. The alleged antineuritic properties of 3-hydroxyppyridine, 1917, 11, 172
Harden, A. and Zilva, S. S. The differential behaviour of the antineuritic and antiscorbutic factors towards adsorbents, 1918, 12, 93
Harden, A. and Zilva, S. S. The antiscorbutic factor in lemon-juice, 1918, 12, 259
Harden, A. and Zilva, S. S. Note on the etiology of guinea-pig scurvy, 1918, 12, 270
Harden, A. and Zilva, S. S. Accessory factors in the nutrition of the rat, 1918, 12, 408
Harden, A. and Zilva, S. S. The antiscorbutic requirements of the monkey, 1920, 14, 131
Harden, A. and Zilva, S. S. Dietetic experiments with frogs, 1920, 14, 263
Harden, A. and Zilva, S. S. The synthesis of vitamin B by yeasts. (Preliminary note), 1921, 15, 438
Harden, A. and Zilva, S. S. Investigation of barley, malt and beer for vitamins B and C, 1924, 18, 1129
Harden, A. see also Bacot, A. W.
Hardy, F. The extraction of pectin from the fruit rind of the lime (Citrus medica acida), 1924, 18, 263
Hardington, C. R. A note on the physiology of the ship-worm (Teredo norvegica), 1921, 15, 736
Hardington, C. R. Chemistry of thyroxine. I. Isolation of thyroxine from the thyroid gland, 1926, 20, 293
Hardington, C. R. Chemistry of thyroxine. II. Constitution and synthesis of desiodothyroxine, 1926, 20, 300
Hardington, C. R. see also Craig, J. M.
Harris, D. T. The action of light on blood, 1920, 20, 271
Harris, D. T. Photo-oxidation of plasma. A note on its sensitisation, 1926, 20, 280
Harris, D. T. Observations on the velocity of the photo-oxidation of proteins and amino-acids, 1926, 20, 288
Harris, J. E. G. see Wolf, C. G. L.
Harris, L. J. On a series of metallo-cysteine derivatives. I, 1922, 16, 739
Harris, L. J. The basic dissociation constant of valine, 1923, 17, 693
Harrison, D. C. The catalytic action of traces of iron on the oxidation of cysteine and glutathione, 1924, 18, 1009
Harrison, D. C. and Thurlow, S. The secondary oxidation of some substances of physiological interest, 1926, 20, 217
Harrison, G. A. A simple automatic pipette, 1924, 18, 188
Harrison, G. A. A note on the solubilities of calcium soaps, 1924, 18, 1222
Harrison, G. A. see also Channon, H. J.
Hartree, W. and Hill, A. V. The specific electrical resistance of frog's muscle, 1921, 15, 379
Hartree, W. see also Azuma, R.
Hartwell, G. A. The effect of diet on mammary secretion, 1921, 15, 140
Hartwell, G. A. Excess protein and mammary secretion, 1921, 15, 563
Hartwell, G. A. Mammary secretion. III. 1. The quality and quantity of dietary protein. 2. The relation of protein to other dietary constituents, 1922, 16, 78
Hartwell, G. A. Mammary secretion. IV. The relation of protein to other dietary constituents, 1922, 16, 824
Hartwell, G. A. Note on the colour changes in rat's fur produced by alterations in diet, 1923, 17, 547
Hartwell, G. A. Vitamin B content of white bread, 1924, 18, 120
Hartwell, G. A. Mammary secretion. V. I. Further research on the threshold and effects of protein "excess." II. The quantitative relation of vitamin B to protein, 1924, 18, 785
Hartwell, G. A. An experimental study of brown and white bread in the diet of the rat, 1924, 18, 1323
Hartwell, G. A. A possible correlation between dietary protein and loss of fur in young growing rats, 1925, 19, 75
Hartwell, G. A. A comparison of dried and evaporated milks by a dietetic method, 1925, 19, 226
Hartwell, G. A. A note on an improved technique for use with synthetic diets, 1925, 19, 729
Hartwell, G. A. Mammary secretion. VI. Vitamin B and the lactating rat's diet. 1. The quantitative relation of vitamin B to protein. 2. Vitamin B requirement of the lactating and non-lactating rat. (Preliminary note), 1925, 19, 1075
Hartwell, G. A. The dietetic value of oatmeal proteins, 1926, 20, 751
Hartwell, G. A. Growth and reproduction on synthetic diets. I, 1926, 20, 1273
Hartwell, G. A. Yeast extract as a supplement to gelatin, 1926, 20, 1279
Hartwell, G. A., Mottram, E. C. and Mottram, V. H. The technique of breeding rats for feeding experiments, 1923, 17, 206
Harvey, D. see Magee, H. E.
INDEX OF AUTHORS

HOLMES, B. E. Oxidative mechanisms of tumour tissue. I. The anaerobic habit of tumour tissue, 1926, 20, 595

HOLMES, E. G. and HOLMES, B. E. Contributions to the study of brain metabolism. II. Carbohydrate metabolism, 1925, 19, 936

HOLMES, E. G. and HOLMES, B. E. A note on the reducing substances found in alcoholic extracts of brain, 1926, 20, 812

HOLMES, E. G. and HOLMES, B. E. Contributions to the study of brain metabolism. III. Carbohydrate metabolism: relationship of glycogen and lactic acid, 1926, 20, 1196

HOMER, A. The estimation of glucose in biological material, 1926, 20, 263

HOMER, A. see also HILL, R.

HOLMER, J. Methods of measuring the opacity of liquids, 1921, 15, 216

HOLMACHER, J. The relation between the number and size of red corpuscles and the opacity of its suspensions, 1921, 15, 226

HOLMER, J. The relation between the microscopic appearance of precipitated calcium oxalate and the opacity of its suspensions, 1921, 15, 225

HOLMER, J. The opacity of serum diluted with distilled water, physiologically normal saline, and Ringer's solution, 1921, 15, 238

HOLMES, B. E. Oxidative mechanisms of tumour tissue. I. The anaerobic habit of tumour tissue, 1926, 20, 812

HOLMES, E. G. and HOLMES, B. E. Contributions to the study of brain metabolism. II. Carbohydrate metabolism, 1925, 19, 936

HOLMES, E. G. and HOLMES, B. E. Contributions to the study of brain metabolism. III. Carbohydrate metabolism: relationship of glycogen and lactic acid, 1926, 20, 1196

HOLMER, J. see also HOLMES, B. E.

HOLMSEN, J. see LANGFELDT, E.

HOMER, A. The reaction of sera as a factor in the successful concentration of antitoxic sera by the methods at present in use, 1917, 11, 21

HOMER, A. Further observations on the influence of phenol and of cresylic acid on the concentration of antitoxic sera by the Banzhaf (1913) process, 1917, 11, 277

HOMER, A. A note on the use of indicators for the colorimetric determination of the hydrogen ion concentration in sera, 1917, 11, 239

HOMER, A. On the influence of the heat-denaturation of pseudoglobulin and albumin on the nature of the proteins appearing in concentrated antitoxic sera, 1917, 11, 292

HOMER, A. On the concentration of antitoxic sera by the salting out of the heat-denatuated serum proteins with sodium chloride, 1918, 12, 190

HOMER, A. On the separation of antitoxic and its associated proteins from heat-denatured sera, 1919, 13, 45

HOMER, A. On the increased precipitability of pseudoglobulin and of its associated antitoxin from heat-denatured solutions, 1919, 13, 156

HOMER, A. A comparison between the precipitation of antitoxic sera by sodium sulphate and by ammonium sulphate, 1919, 13, 1278

HOMER, A. On the association of antitoxins with the proteins of immunised horse serum, 1920, 14, 42

HOMER, A. The heat-inactivation of diphtheria antitoxin, 1920, 14, 565

HOPKINS, F. G. Note on the vitamin content of milk, 1920, 14, 721

HOPKINS, F. G. The effects of heat and aeration upon the fat-soluble vitamin, 1920, 14, 725

HOPKINS, F. G. On an autoxidisable constituent of the cell, 1921, 15, 286

HOPKINS, F. G. Glutathione. Its influence in the oxidation of fats and proteins, 1925, 19, 787-923

HORNE, E. V. Investigations on gelatin. Part VIII. The osmotic pressure of gelatin in solutions of sodium salicylate, 1924, 18, 1107

HOWIE, L. see PONDER, E.

HOLLOWAY, J. see SHIPLEY, P. G.

HULTON, H. F. E. see BAKER, J. L.

HUME, E. M. Comparison of the growth-promoting properties for guinea-pigs of certain diets, consisting of natural foodstuffs, 1921, 15, 30

HUME, E. M. Investigation of the antiscorbutic value of full cream sweetened condensed milk by experiments with monkeys, 1921, 15, 163

HUME, E. M. and SMITH, H. H. The effect of air, which has been exposed to the radiations of the mercury-vapour quartz lamp, in promoting the growth of rats, fed on a diet deficient in fat-soluble vitamins, 1923, 17, 364

HUME, E. M. and SMITH, H. H. The effect of irradiation of the environment with ultraviolet light upon the growth and calcification of rats, fed on a diet deficient in fat-soluble vitamins. The part played by irradiated sawdust. I, 1924, 18, 1334

HUME, E. M. and SMITH, H. H. The effect of irradiation of the environment with ultraviolet light upon the growth and calcification of rats, fed on a diet deficient in fat-soluble vitamins. The part played by irradiated sawdust. II, 1926, 20, 335

HUME, E. M. and SMITH, H. H. A note on the production by irradiation with ultraviolet light of anti-rachitic properties in sterols derived from the small Siak Illipe nut (Palagium Burckii), 1926, 20, 340

HUME, E. M. see also BARNES, R. E. and CHICK, H.

HUMPHREYS, R. W. see PLOYDE, J.

HUNTER, A. and BORSOOK, H. The dissociation constants of arginine, 1924, 18, 883

HUNTER, G. The estimation of carnosine in muscle extract. (Preliminary note), 1921, 15, 669

HUNTER, G. Note on Knoop's test for histidine, 1922, 16, 637

HUNTER, G. The estimation of carnosine in muscle extract—a critical study, 1922, 16, 640

HUNTER, G. Observations on the distribution and variation of carnosine in cat muscle, 1924, 18, 408

HUNTER, G. The diazo reaction in urine, 1925, 19, 25
INDEX OF AUTHORS

HUNTER, G. Carnosine of muscle and iminazole excretion in the urine, 1925, 19, 34
HUNTER, G. Colour standards for use in the determination of iminazoles, 1925, 19, 42
HURSTLEY, W. H. The production of carbon monoxide by the action of alkaline hypo-
halogenites on urea, 1921, 15, 11
HURSTLEY, W. H. see also CAHEN, E.
HUSBAND, A. D., GODDEN, W. and RICHARDS, M. B. The influence of cod-liver oil, linseed oil and oil and olive oil on the assimilation of calcium and phosphorus in the growing pig, 1923, 17, 707
HUSBAND, A. D. see also KELLY, F. C., RICHARDS, M. B. and ROTHLEY, E.
HUSBAND, W. G. see RICHARDS, M. B.
HUTCHINSON, H. B., SMITH, W. and WINTER, L. B. Studies on carbohydrate metabolism.
II. On the preparation of an anti-diabetic hormone from yeast. Part I, 1925, 17, 683
HUTCHINSON, H. B., SMITH, W. and WINTER, L. B. Studies on carbohydrate metabolism.
III. On the formation of an anti-diabetic hormone by the action of a bacillus. (Preliminary communication), 1923, 17, 764
HYND, A. The fate of the blood-sugar after insulin injection in normal animals, 1925, 19, 1095
HYND, A. Studies on the interaction of amino-compounds and carbohydrates. I. The action of urea on glucose, fructose and galactose, 1926, 20, 1395
HYND, A. Studies on the interaction of amino-compounds and carbohydrates. II. The preparation of glucose ureide, 1926, 20, 205
HYND, A. and MACFARLANE, M. G. Studies on the interaction of amino-compounds and carbohydrates. III. The action of nitrous acid on certain nitrogenous sugar derivatives and related compounds, 1926, 20, 1264
HYND, A. see also CROWTHER, C.
IRVING, J. C. see HERRING, P. T.
IRVING, J. T. The degradation of glucose by the blood corpuscle of the rabbit. I, 1926, 20, 613
IRVING, J. T. Degradation of glucose by the blood corpuscle of the rabbit. I, 1926, 20, 1320
IVANOV, N. On the nature of the proteolytic enzyme of yeast, 1918, 12, 106
JAMESON, A. P. and ATKINS, W. R. G. On the physiology of the silkworm, 1921, 15, 209
JAMESON, H. L., DRUMMOND, J. C. and COWARD, K. H. Synthesis of vitamin A by a marine diatom (Nitzschia closterium, W.Sm.) growing in pure culture, 1922, 16, 483
JEPHCOTT, H. and BACHARACH, A. L. The anti-
scorbutic value of dried milk, 1921, 15, 129
JEPHCOTT, H. and BACHARACH, A. L. A rapid and reliable test for vitamin D, 1926, 20, 1351
JOHNSTON, J. H. St see ST JOHNSTON, J. H.
JONES, H. W. The distribution of inorganic iron in plant and animal tissues, 1920, 14, 654
JONGH, S. E. de On the concentration-action curve of insulin preparations, and on anti-
insulin, 1924, 18, 833
JORDAN LLOYD, D. On the swelling of gelatin in hydrochloric acid and caustic soda, 1920, 14, 147
JORDAN LLOYD, D. Note on the production of a contracting clot in a gel of gelatin at the isoelectric point, 1920, 14, 384, 447
JORDAN LLOYD, D. Notes on some properties of dialysed gelatin, 1922, 18, 530
JORDAN LLOYD, D. see also KAYE, M.
JUDD, H. M. The iodometric estimation of sugars, 1920, 14, 255
JUDD, H. M. see also HAYNES, D.
KATAGIRI, H. The influence of the fatty acid and their salts on alcoholic fermentation by living yeast. Part I. Acetic and formic acids and their sodium, potassium and ammonium salts, 1926, 20, 437
KAY, H. D. The reversibility of the action of urease of soy bean, 1923, 17, 277
KAY, H. D. Changes in the phosphorus partition in human blood during ammonium chloride acidosis, 1924, 18, 1133
KAY, H. D. Some phosphorus compounds of milk. I. The presence in milk of organic acid-soluble phosphorus compounds, 1925, 19, 433
KAY, H. D. Note on the phosphorus content of the blood of ruminants, 1925, 19, 447
KAY, H. D. Note on the variation in the end-products of bacterial fermentation resulting from increased combined oxygen in the substrate, 1926, 20, 321
KAY, H. D. Kidney phosphatase, 1926, 20, 791
KAY, H. D. and RAFFER, H. S. The mode of oxidation of fatty acids with branched chains. II. The fate in the body of hyaluronic, tropic, atrotropic and atropic acids together with phenylacetaldehyde, 1922, 16, 463
KAY, H. D. and RAFFER, H. S. The mode of oxidation of fatty acids with branched chains. III. The fate in the body of α-methyl-β-naphthoic acid, β-phenyl-iso-butyric acid, and γ-phenyl-iso-valeric acid, 1924, 18, 153
KAY, H. D. and ROBISON, R. The possible significance of hexosephosphoric esters in ossification. Part III. The action of the bone enzyme on the organic phosphorus compounds in blood, 1924, 18, 755
KAY, H. D. and ROBISON, R. The rôle of phosphates in carbohydrate metabolism. I. The action of the muscle enzyme on the organic phosphorus compounds in blood. II. The effect of insulin administration on the distribution of phosphorus compounds in blood and muscle, 1924, 18, 1133
KAY, H. D. and ZILVA, S. S. The alleged specific colour reaction for the anti-
scorbutic factor, 1923, 17, 872
KAY, H. D. see also RIMINGTON, C.
KAYE, M. Observations on the behaviour of a substance giving the nitroprusside re-
action in skin and hair, 1924, 18, 1289
INDEX OF AUTHORS


Kelly, F. C. The influence of small quantities of potassium iodide on the assimilation of nitrogen, phosphorus and calcium in the growing pig, 1925, 19, 559.

Kelly, F. C. and Husband, A. D. Method of estimating minute quantities of iodine in biological material, 1924, 18, 951.

Kennaway, E. L. The acetone bodies of the blood in diabetes, 1918, 12, 120.


Kennaway, E. L. and McIntosh, J. The action of whole blood upon acids, 1922, 16, 380.


Kennedy, W. P. see also Ponder, E.


Kermack, W. O. and MacCallum, P. Some colloidal properties of Wassermann antigens, 1924, 18, 1381.

Kermack, W. O. see also Wright, H. D.

Kersten, T. The influence of the glass electrode in biochemistry, 1925, 19, 611.

Killick, E. M. see Melianby, M.

King, G. see Gardner, J. A.

King, H. and Palmer, A. D. Glycine and its neutral salt addition compounds, 1920, 14, 574.

King, H. see also Acton, H. W.

Kingston, H. L. and Schryver, S. B. Investigations on gelatin. Part III. The separation of the products of hydrolysis of gelatin by the carbamate method, 1924, 18, 1070.


Knaggs, J. Some notes on the determination of the Hausmann numbers of proteins, 1923, 17, 488.


Knaggs, J. and Schryver, S. B. Investigations on gelatin. Part IV. The purification of gelatin by flocculation in an electric field, 1924, 18, 1079.


Kodama, K. Studies on xanthine oxidase. VIII. The oxidation-reduction potential of the oxidase system, 1926, 20, 1085.

Kodama, K. see also Dixon, M.


Kon, S. and Funk, C. An unusual type of fatty compound in a product of animal origin, 1924, 18, 1238.


Korenchevsky, V. and Carr, M. The influence of the antenatal feeding of parent rats upon the number, weight and composition of the young at birth, 1923, 17, 597.

Korenchevsky, V. and Carr, M. Further experiments on the influence of the parents' diet upon the young. I. The influence of the father's diet, 1924, 18, 1308.

Korenchevsky, V. and Carr, M. Further experiments on the influence of the parents' diet upon the young. II. The influence upon the young of an excessive amount of fat-soluble factor and calcium in the mother's diet during pregnancy, 1924, 18, 1313.

Korenchevsky, V. and Carr, M. A comparison of the values of yeast and of orange juice with those of citrate citratus, respectively, in the calculation of the skeleton, 1924, 18, 1319.

Korenchevsky, V. and Carr, M. The effects of calcium glycerophosphate, sodium glycerophosphate and sodium dihydrogen phosphate upon the skeleton of rats kept on a diet deficient only in fat-soluble factor, 1925, 19, 101.

Korenchevsky, V. and Carr, M. Further experiments on the influence of the parents' diet upon the young. III. The influence upon the young of an excessive amount of calcium in the mother's diet during pregnancy, 1925, 19, 112.


Korenchevsky, V. see also Chick, H.

Kozawa, S. and Miyamoto, N. Note on the permeability of the red corpuscles for amino-acids, 1921, 15, 167.


Kramer, B. see Shipley, P. G.

Krogh, A. A gas analysis apparatus accurate to 0.001 % mainly designed for respiratory exchange work, 1920, 14, 267.

Krogh, A. The calibration, accuracy and use of gas metres, 1920, 14, 282.
INDEX OF AUTHORS

KROGH, A. and LINNARD, J. (with the collaboration of LILJESTRAND, G. and ANDRESEN, K. G.) The relative value of fat and carbohydrate as sources of muscular energy. With appendices on the correlation between standard metabolism and the respiratory quotient during rest and work, 1920, 14, 296

KROGH, A. and SCHMITT-JENSEN, H. O. The fermentation of cellulose in the paunch of the ox and its significance in metabolism experiments, 1920, 14, 686

LAKNER, E., LEVINSON, A. and MORSE, W. The rôle of the liver in hippuric acid synthesis, 1918, 12, 184

LADWELL, P. P. and PAYNE, W. W. A method for the estimation of small quantities of calcium, 1922, 16, 494

LAMBIE, C. G. see KERMKACK, W. O.

LAMPFITZ, W. H. Nitrogen metabolism in Saccharomyces cerevisiae, 1919, 13, 459

LANGFELDT, E. and HOLMSJEN, J. Estimation of allantoin in presence of uric acid, creatinine and amino-acids, 1925, 19, 715

LANGFELDT, E. and HOLMSJEN, J. The excretion of purine derivatives in dogs, 1925, 19, 717

LANGFELDT, E. and HOLMSJEN, J. The "uricolytic index" in diabetic dogs, 1925, 19, 724

LANGSTAFF, E. see WATSON, A. F.

LAPWORTH, A. and PEARDON, L. K. The direct replacement of glycerol in fats by higher polyhydric alcohols. Part I. Interaction of olein and stearin with manmitol, 1919, 13, 296

LATHWOOD, A., PEARDON, L. K. and MOTTRAM, E. N. The preparation and properties of purified oleic acid and some of its salts, 1925, 19, 7

LAW, L. and WOLF, C. G. L. The early action of insulin in the diabetic, 1925, 19, 122

LAW, see DODDS, E. C. G.

LEBEDEV, A. L'acide lactique est-il un produit intermédiaire de la fermentation alcoolique? 1917, 11, 189

LEBEDEV, A. Sur la fermentation de l'acide glyoxylique, 1918, 12, 51

LEBEDEV, A. Sur la formation des éthers phosphorés pendant la fermentation alcoolique, 1918, 12, 87

LEE, B. see HAAS, P.

LEGG, A. T. The preparation of silica jelly for use as a bacteriological medium, 1919, 13, 107

LEITCH, I. and HENDERSON, J. M. The estimation of iodine in foodstuffs and body fluids, 1926, 20, 1003

LEFESCHKIN, W. W. The heat-coagulation of proteins, 1922, 16, 678

LEPPER, E. H. and MARTIN, C. J. A micromethod for titrating the bicarbonate in plasma, 1925, 19, 573

LEPPER, E. H. and MARTIN, C. J. Discrepancy between electrometric and colorimetric (phenol red) determinations of \( \text{CO}_2 \) according to the salt-content of the solution, 1926, 20, 45

LEPPER, E. H. and ZILVA, S. S. The bicarbonate of the plasma and the hydrogen ion concentration of the blood of guinea-pigs suffering from scurvy, 1922, 19, 381

LEPPER, E. H. see also MARTIN, C. J.

LEVINSON, A. see LACKNER, E.

LEVY-SIMPSON, S. and CARROLL, D. C. The estimation of ammonia and urea in urine and other fluids, 1923, 17, 391

LEWIS, A. H. The separation of fatty acids, 1926, 20, 1356

LEWIS, P. S. The kinetics of protein denaturation. Part I. The effect of variation in the hydrogen ion concentration on the velocity of the heat denaturation of oxyhaemoglobin, 1926, 20, 965

LEWIS, P. S. The kinetics of protein denaturation. Part II. The effect of variation in the hydrogen ion concentration on the velocity of the heat denaturation of egg-albumin: the critical increment of the process, 1926, 20, 978


LEWIS, W. C. M. see CORRAN, J. W.

LILJESTRAND, G. see KROGH, A.

LINNARD, J. see KROGH, A.

LING, A. R. and BUSHILL, J. H. The estimation of calcium in blood, 1922, 16, 403


LING, A. R. and NANJII, D. R. The synthesis of glycine from formaldehyde, 1922, 16, 702

LING, A. R. and NANJII, D. R. On the presence of maltase in germinated and ungerminated barley, 1923, 17, 593

LING, A. R. see also PATON, F. J.

LLOYD, J. D. see JORDAN LLOYD, D.

LOMMHOLTZ, S. Investigations into the circulation of some heavy metals in the organism (mercury, bismuth and lead), 1924, 18, 693

LONG, C. N. H. and PARKES, A. S. On the nature of foetal re-absorption, 1924, 18, 800

LOWNDIES, J. see FLIMMER, R. H. A.

LUCAS, N. S. Nature of the action on a photographic plate of sawdust and cholesterol irritated by a mercury vapour quartz lamp, 1926, 20, 23

LUCE, E. M. The influence of diet and sunlight upon the growth-promoting and anti-rachitic properties of the milk afforded by a cow, 1924, 18, 716

LUCE, E. M. Further observations on the influence of sunlight upon the growth-promoting and anti-rachitic properties of cow's milk, 1924, 18, 1279

LUCE, E. M. and SMEDLEY MACLEAN, I. The presence of vitamin A in yeast fat, 1925, 19, 47

LUCE, J. M. The amide-nitrogen of caseinogen, 1924, 18, 679

LUCE, J. M. Ammonia production by animal tissues in vitro. I. The use of mixed tissue extracts, 1924, 18, 814
INDEX OF AUTHORS

LUCK, J. M. Ammonia production by animal tissues in vitro. II. The demonstration of urease in the animal body, 1924, 18, 825
LUCK, J. M. and Seth, T. N. Gastric urease, 1924, 18, 1227
LUCK, J. M. and Seth, T. N. The physiology of gastric urease, 1925, 19, 357
LUCK, J. M. see also Seth, T. N.
LUND, G. S. and Wolf, C. G. L. The glucose content of normal urine, 1925, 19, 538
LUND, G. S. and Wolf, C. G. L. The glucose in blood, 1926, 20, 259
LöSCHER, E. The nitrogen-distribution in Bence-Jones' protein, with a note upon a new colorimetric method for tryptophan-estimation in protein, 1922, 16, 556
MacCALLUM, P. see Kermack, W. O.
McCance, R. A. The production of ammonia and urea in autolysis, 1924, 18, 486
McCance, R. A. The influence of oxygen on the production of urea by enzymes of the liver and spleen, 1925, 19, 134
McCance, R. A. Tyrosinase, its action on phenols, tyrosine and other amino-acids, 1925, 19, 1022
McCance, R. A. A rapid colorimetric method of estimating pentoses, 1926, 20, 1111
McCance, R. A. see also Robinson, M. E.
MacFarlane, M. G. see Hynd, A.
McGowan, J. P. and Crichton, A. On the effect of deficiency of iron in the diet of pigs. (Preliminary communication), 1923, 17, 204
McGowan, J. P. and Crichton, A. Iron deficiency in pigs, 1924, 18, 265
McGowan, J. P. and Crichton, A. Cotton seed meal poisoning, 1924, 18, 273
McIntosh, J. see Kennaway, E. L.
Mackay, H. M. M. The effect on kittens of a diet deficient in animal fat, 1921, 15, 19
Mackenzie, R. see Findlay, G. M.
Macleod, H. On the estimation of sugar in blood, 1919, 13, 135
Macleod, H. and Griffiths, W. J. Cuorin, 1920, 14, 615
Macleod, I. see Findlay, G. M.
Macleod, I. S. see Smedley Maclean, I.
Macleod, J. J. R. see Herrington, P. T.
McLeod, J. W. and Gordon, J. Production of hydrogen peroxide by bacteria, 1922, 16, 499
McLeod, J. W. and Gordon, J. The production of organic compounds of sulphur in bacterial cultures with special reference to glutathione, 1924, 18, 937
Magee, H. E. and Harvey, D. Studies on the effect of heat on milk. I. Some physico-chemical changes induced in milk by heat, 1926, 20, 873
Magee, H. E. and Harvey, D. Studies on the effect of heat on milk. II. The influence of diets of fresh and treated cow's milk on the calcium, phosphorus and nitrogen metabolism of the young pig, 1926, 20, 873
Magee, H. E. see also Henderson, J. M. and Orr, J. B.
Mair, W. The preparation of desoxycholic acid, 1917, 11, 11
Manning, A. B. Investigations on gelatin. Part V. The properties of a gelatin purified by flocculation in an electric field, 1924, 18, 1085
Manning, A. B. and Schryver, S. B. Studies on gelatin. Part I. The dynamics of the formation of gelatin from ossein, 1921, 15, 523
Manning, A. B. see also Knaggs, J.
Mardles, E. W. J. Peptisation of gelatin by mixed liquids, 1924, 18, 215
Marrack, J. The balance of anions and kations in the plasma in nephritis, 1923, 17, 240
Marrack, J. and Thacker, G. The state of calcium in body fluids, 1926, 20, 580
Marrian, G. F. see Channon, H. J., Drummond, J. C. and Dudley, H. W.
Marsden, H. R. The azine and azonium compounds of the proteolytic enzymes. I, 1923, 17, 851
Martin, C. J. The preparation of Sorensen's pure phosphate solutions when the pure salt is not available, 1920, 14, 98
Martin, C. J. An inexpensive furnace for ashing food and excreta in porcelain crucibles, 1924, 18, 419
Martin, C. J. and Lepper, E. H. Micro-method for the estimation of the hydrogen ion concentration of capillary blood, 1926, 20, 37
Martin, C. J. and Lepper, E. H. The influence of temperature on the pHz of blood, 1926, 20, 1071
Martin, C. J. and Lepper, E. H. Observations on the extent to which the electrometric determination of the [H+] of bicarbonate solutions is interfered with by the production of formic acid at the electrode, 1926, 20, 1077
Martin, C. J. and Robison, R. The minimum nitrogen expenditure of man and the biological value of various proteins for human nutrition, 1922, 16, 407
Martin, C. J. see also Lepper, E. H.
Martland, M. The phosphoric-esterase of blood at various hydrogen ion concentrations, 1925, 19, 117
Martland, M., Hansman, F. S. and Robison, R. The phosphoric-esterase of blood, 1924, 18, 1152
Martland, M. and Robison, R. Note on the estimation of phosphorus in blood, 1924, 18, 765
Martland, M. and Robison, R. The possible significance of hexosephosphoric esters in ossification. Part V. The enzyme in the early stages of bone development, 1924, 18, 1354
Masters, H. An investigation of the methods employed for cooking vegetables, with special reference to the losses incurred. Part I. Dried legumes, 1918, 12, 231
INDEX OF AUTHORS

Norris, F. W. The pectic substances of plants. Part IV. The pectic substances in the juice of oranges, 1926, 20, 993
Norris, F. W. and Schwyzer, S. B. The pectic substances of plants. Part III. The nature of pectinogen and its relation to pectic acid, 1925, 19, 676
Norris, F. W. see also Claxton, D. H. F.

O'Dwyer, M. H. The hemicelluloses. Part III. The hemicellulose of American white oak, 1923, 17, 501
O'Dwyer, M. H. A note on the occurrence of a pectic substance in beech wood, 1925, 19, 694
O'Dwyer, M. H. The hemicelluloses. Part IV. The hemicelluloses of beech wood, 1926, 20, 656.

Ogata, D. On the change of the osmotic pressure of solutions of certain colloids under the influence of salt solutions, 1922, 16, 449
Onslow, H. On the stability of tryptophan in baryta hydrolysis, 1921, 15, 383
Onslow, H. On the nature of the substances precipitated by mercuric sulphate from hydrolysed caseinogen, with reference to the estimation and isolation of tryptophan, 1921, 15, 392
Onslow, H. The relation between uric acid and allantoin excretion in hybrids of the Dalmatian hound, 1923, 17, 334
Onslow, H. Uric acid and allantoin excretion among offspring of Dalmatian hybrids, 1923, 17, 564
Onslow, H. A method of estimating the tryptophan content of caseinogen, based on determinations of the nitrogen values of the mercuric sulphate precipitate, 1924, 18, 63
Onslow, M. W. Oxidising enzymes. I. The nature of the “peroxide” naturally associated with certain direct oxidising systems in plants, 1919, 13, 1
Onslow, M. W. Oxidising enzymes. II. The nature of the enzymes associated with certain direct oxidising systems in plants, 1920, 14, 535
Onslow, M. W. Oxidising enzymes. III. The oxidising enzymes of some common fruits, 1920, 14, 641
Onslow, M. W. Oxidising enzymes. IV. The distribution of oxidising enzymes among the higher plants, 1921, 15, 107
Onslow, M. W. Oxidising enzymes. V. Further observations on the oxidising enzymes of fruits, 1921, 15, 113
Onslow, M. W. Oxidising enzymes. VI. A note on tyrosinase, 1923, 17, 216
Onslow, M. W. Oxidising enzymes. VII. The oxygenase of the higher plants, 1924, 18, 549
Onslow, M. W. and Robinson, M. E. Oxidising enzymes. VIII. The oxidation of certain para-hydroxy-compounds by plant enzymes and its connection with “tyrosinase,” 1925, 19, 420
Onslow, M. W. and Robinson, M. E. Oxidising enzymes. IX. On the mechanism of plant oxidases, 1926, 20, 1138

Orr, A. P. Lævulose in the blood of the human foetus, 1924, 18, 171
Orr, A. P. A colorimetric method for the direct estimation of ammonia in urine, 1924, 18, 546
Orr, J. B. Creatine excretion in ruminants, 1918, 12, 221
Osborne, T. B. and Mendel, L. B. (with the cooperation of Cannon, H. C.). Milk as a source of water-soluble vitamin. III. 1922, 16, 303

Palmer, A. D. see King, H.
Pantin, C. F. A. see Atkins, W. R. G.
Parkes, A. S. see Long, C. N. H.
Parsons, T. R. and Poulton, E. P. The hydrogen ion concentration of the blood in certain pathological conditions, as determined by the hydrogen electrode and the indirect methods of Barcroft and Hasselbalch, 1923, 17, 341
Paton, F. J. A colorimetric method for the estimation of sugar in blood, 1924, 18, 965
Patterson, J. Urea estimations on small quantities of blood, 1925, 19, 601
Patterson, J. The carbohydrate of normal urine, 1926, 20, 661
Paul, J. H. and Sharpe, J. S. The relationship of lecithin to the growth cycle in crustaceae, 1919, 13, 487
Payne, W. W. see Laidlaw, P. P.
Peaeh, E. A. and Drummond, J. C. On the culture of the marine diatom Nitzschia closterium (f.) minutissima, in artificial sea-water, 1924, 18, 464
Peard, G. T. see St Johnston, J. H.
Pearsall, W. H. and Ewing, J. The iso-electric points of some plant proteins, 1924, 18, 329
Pearson, L. K. see Lapworth, A.
Perreira, J. R. On the influence of the hydrogen ion concentration upon the oxygen consumption in sea-water fishes, 1924, 18, 1294
Pesket, G. L. Allelopathic and the growth of yeast, 1924, 18, 866
Pesket, G. L. Studies on the growth of yeast. I. The influence of volume of culture medium employed, 1925, 19, 464
Pesket, G. L. Studies on the growth of yeast. II. A further note on allelopathic, 1925, 19, 474
Petters, R. A. A method for obtaining uncontaminated specimens of urine from the billy goat, with some notes upon the normal metabolism of this animal, 1920, 14, 697
INDEX OF AUTHORS

QUASTEL, J. H., STEPHENSON, M. and WHET
HAM, M. D. Some reactions of resting
bacteria in relation to anaerobic growth,
1925, 19, 304
QUASTEL, J. H., STEWART, C. P. and TUN
CLIFFE, H. E. On glutathione. IV. Con
stitution, 1923, 17, 586
QUASTEL, J. H. and WHETHAM, M. D. The
equilibrium existing between succinic,
fumaric and malic acids in the presence
of resting bacteria, 1924, 18, 519
QUASTEL, J. H. and WHETHAM, M. D. De
hydrogenations produced by resting bac
teria, I, 1925, 19, 620
QUASTEL, J. H. and WHETHAM, M. D. De
hydrogenations produced by resting bac
teria, II, 1925, 19, 645
QUASTEL, J. H. and Wooldridge, W. R. De
hydrogenations produced by resting bac
teria, III, 1925, 19, 652
QUASTEL, J. H. and Wooff, B. The equili
brum between l-aspartic acid, fumaric
acid and ammonia in presence of resting
bacteria, 1926, 20, 645
RAIMENT, P. C. See COATES, V.
RAISTRICK, H. On a new type of chemical
change produced by bacteria. The con
version of histidine into urocanic acid by
the bacteria of the coli-typhus group,
1917, 11, 71
RAISTRICK, H. Studies on the cycloclastic
power of bacteria. Part I. A quantitative
study of the aerobic decomposition of
histidine by bacteria, 1919, 13, 446
RAISTRICK, H. and CLARK, A. B. On the mecha
nism of oxalic acid formation by
Aspergillus niger, 1919, 13, 329
RAISTRICK, H. and CLARK, A. B. Studies on
the cycloclastic power of bacteria. Part II.
A quantitative study of the aerobic de
composition of tryptophan and tyrosine by
bacteria, 1921, 15, 76
RANSOM, F. On the cardiac, haemolytic and
nervous effects of digitonin, 1922, 16, 668
RAPER, H. S. A human enterolith containing
cholic acid, 1921, 15, 49
RAPER, H. S. The tyrosine-tyrosine reaction. V.
Production of l-3. 4-dihydroxyphenyl-
alanine from tyrosine, 1926, 20, 735
RAPER, H. S. and SPEAKMAN, H. B. Tyrosinase-
tyrosine reaction. IV. Note on the identity
of tyrosinase from different sources, 1926,
20, 69
RAPER, H. S. and WORMALL, A. The tyrosinase-
tyrosine reaction. I, 1923, 17, 454
RAPER, H. S. and WORMALL, A. The tyrosinase-
tyrosine reaction. II. The theory of de
amination, 1925, 19, 84
RAPER, H. S. See also CLUTTERBUCK, P. W.,
HAPPOLD, F. C. and KAY, H. D.
RAY, C. B. See SHORTEM, J. A.
RAYMOND, W. H. See PLIMMER, R. H. A.
READER, V. A note on the lipochromes present
in certain bacteria, 1925, 19, 1059
READER, V. and DRUMMOND, J. C. Relation
between vitamin B and protein in the diet
of growing rats. Physiological rôle of
vitamin B. II, 1926, 20, 1256
RAY, G. A. See HAVARD, R. E.
REES, H. G. See MARTIN, H.
REHBERG, P. B. A method of microtitration,
1925, 19, 270
REHBERG, P. B. The determination of urea in
0-1 cc. of blood by microtitration, 1925, 19,
278
REHBERG, P. B. Studies on kidney function.
I. The rate of filtration and reabsorption
in the human kidney, 1926, 20, 447
REHBERG, P. B. Studies on kidney function.
II. The excretion of urea and chlorine
analysed according to a modified filtration-
reabsorption theory, 1926, 20, 461
REIBERG, F. B. The determination of chlorine
in blood and tissues by microtitration,
1926, 20, 483
REID, E. W. See STEVEN, D.
REINBERG, A. See FODOR, A.
REILLY, J., HICKENBOTTOM, W. J., HENLEY,
F. R. and THAYSEN, A. C. The products of
the "acetone: n-butyl alcohol" fermenta
tion of carbohydrate material with special
reference to some of the intermediate
substances produced, 1920, 14, 229
RHIND, D. and SMITH, F. E. Note on tannase,
1922, 16, 1
RHODES, E. The chemical nature of the mem
brane of potato cork, 1925, 19, 454
RICHARDS, M. B. and HUSBAND, W. G. and
A. D. The influence of variations in the
sodium-potassium ratio on the nitrogen
and mineral metabolism of the growing
pig, 1924, 18, 651
RICHARDS, M. B. See also HUSBAND, A. D.
RIDDLE, A. A. See WOOL, C. G. L.
RIMINGTON, C. Note on the effect of ammonium
sulphate and other salts on the colori
metric estimation of phosphorus, 1924, 18,
1297
RIMINGTON, C. and KAY, H. D. Some phos
phorus compounds of milk. II. The liber
ation of phosphorus from caseinogen by
enzymes and other agents, 1926, 20, 777
ROACH, W. A. A laboratory apparatus for the
wet grinding of plant tissues out of contact
with air, 1925, 19, 783
ROAF, H. E. Urochrome as a derivative of chlorophyll, 1921, 15, 687
ROAF, H. E. and SMART, W. A. M. The oxygen
content of methaemoglobin, 1923, 17,
579
ROBERTSON, T. B. Experimental studies on
cellular multiplication. I. The multiplicat
ion of isolated infusoria, 1921, 15, 595
ROBERTSON, T. B. Experimental studies on
cellular multiplication. II. The influence
of mutual contiguity upon reproductive
rate and the part played therein by the
"X-substance" in bacterised infusions
which stimulates the multiplication of
infusoria, 1921, 15, 612
ROBERTSON, T. B. Tetheline—a growth-con	rolling substance obtained from the an	terior lobe of the pituitary body, 1923,
17, 77
ROBERTSON, T. B. Alleloca catalytic effect in
cultures of Colpidium in hay-infusion and
synthetic media, 1924, 18, 1240
INDEX OF AUTHORS

ROSENHEIM, M. E. Haemoglobin and methaemoglobin as oxidative catalysts, 1924, 18, 255

ROSENHEIM, M. E. A comparison of certain oxidising enzymes of the higher and lower plants, 1924, 18, 543

ROBINSON, M. E. and McCANCE, R. A. Oxidative deamination by a basidiomycete enzyme, 1925, 19, 251

ROBINSON, M. E. see also CALLOW, A. B. and ONSLOW, M. W.

ROBINSON, R. The value of gelatin in relation to the nitrogen requirements of man, 1922, 16, 111

ROBINSON, R. Distribution of the nitrogenous constituents of the urine on low nitrogen diets, 1922, 16, 131

ROBINSON, R. The estimation of total sulphur in urine, 1922, 16, 134

ROBINSON, R. A new phosphoric ester produced by the action of yeast-juice on hexoses, 1922, 16, 809

ROBINSON, R. The possible significance of hexosephosphoric esters in ossification, Part I. 1923, 17, 286

ROBINSON, R. The possible significance of hexosephosphoric esters in ossification. A reply to Shipley, Kramer and Howland, 1926, 20, 388

ROBINSON, R. and SOAMES, K. M. The possible significance of hexosephosphoric esters in ossification. Part II. The phosphoric esterase of ossifying cartilage, 1924, 18, 543

ROBINSON, R. and SOAMES, K. M. A chemical study of defective ossification in rachitic animals, 1925, 19, 153

ROBINSON, R. see also GOODWIN, H. W., HARDEN, A., KAY, H. D., MARTIN, C. J. and MART-LISTO, M., 1922, 16, 131

ROSCO, M. H. see CHICK, H.

ROSEDALE, J. L. The amino-acids of flesh. The diamino-acid content of rabbit, chicken, ox, horse, sheep, and pig muscle, 1922, 16, 277

ROSEDALE, J. L. see also PLUMMER, R. H. A.

ROSENHEIM, M. C. see DUDLEY, H. W.

ROSENHEIM, O. Accessory factors for plant growth, 1917, 11, 7

ROSENHEIM, O. Biochemical changes due to environment, 1918, 12, 283

ROSENHEIM, O. Note on the use of butyl alcohol as a solvent for anthocyansins, 1920, 14, 73

ROSENHEIM, O. Observations on anthocyansins. I. The anthocyansins of the young leaves of the grape vine, 1920, 14, 178

ROSENHEIM, O. The isolation of spermine phosphate from semen and testis, 1924, 18, 1253

ROSENHEIM, O. and DRUMMOND, J. C. A delicate colour reaction for the presence of vitamin A, 1925, 19, 753

ROSENHEIM, O. and WEBSTER, T. A. The antirachitic properties of irradiated sterols, 1926, 20, 537

ROSENHEIM, O. and WEBSTER, T. A. Note on the antirachitic action of irradiated sawdust, 1926, 20, 1340

ROSENHEIM, O. and WEBSTER, T. A. The nature of Fearon's colour reaction and its non-specificity for vitamin A, 1926, 20, 1342

ROSENHEIM, O. see also DUDLEY, H. W. and HALLIBURTON, W. D.

ROTHLIN, E., PLUMMER, R. H. A. and HUSBAND, A. D. The action of hypophysin, ergamine and adrenaline upon the secretion of the mammary gland, 1922, 16, 3

RUSSELL, D. S. Ammonia content of the blood in nephritis, 1923, 17, 72

RUSSELL-WELLS, B. On carrageen (Chondrus crispus). III. The constitution of the cell wall, 1922, 16, 578

RUSSELL-WELLS, B. see also HAAS, P.

ST JOHNSTON, J. H. and PEARD, G. T. The surface tension of gelatin solutions. Part I, 1925, 19, 281

ST JOHNSTON, J. H. and PEARD, G. T. The surface tension of gelatin solutions. Part II, 1926, 20, 816

SATO, M. On the presence of amylase in milk and cheese, 1920, 14, 120

SCHRIT-T-JENSEN, H. O. Estimation of carbon dioxide, oxygen and combustible gases by Krogh's method of micro-analysis, 1920, 14, 4

SCHRIT-T-JENSEN, H. O. see also Krogh, A.

SCHRYVER, S. B. and THOMAS, E. M. The hemicelluloses. II. The hemicellulose content of starches, 1923, 17, 497

SCHRYVER, S. B. see also BUSTON, H. W., CHEBNALL, A. C., CLARKE, G., CLAYSON, D. H. F., KINGSTON, H. L., KNAGGS, J., MANNING, A. B., MASTIN, H. and NORRIS, F. W.


SCOTT, J. M. D. Studies in anaemia. II, 1923, 17, 166

SCOTT, J. M. D. The part played by iron and fat in the recovery of rats from chronic experimental anaemia, 1924, 18, 347

SCOTT, J. M. D. and BARCHERT, J. The blood volume and the total amount of haemoglobin in anaemic rats, 1924, 18, 1

SEN, P. see BANMACHAR, V. N.

SETH, T. N. Adsorption and mechanism of poisoning. Part I. Irritant poisons, 1923, 17, 613

SETH, T. N. The activation of pancreatic juice by enterokinase, 1924, 18, 1401

SETH, T. N. and LUCK, J. M. The relation between the metabolism and the specific dynamic action of amino-acids, 1925, 19, 366

SETH, T. N. see also LUCK, J. M.

SHARP, T. M. see HENRY, T. A.

SHARPE, J. S. A rapid process for the estimation of the higher fatty acids and soap in faeces, 1917, 11, 96

SHARP, J. S. The distribution of nitrogen in beer, 1917, 11, 101

SHARP, J. S. The guanidine content of faeces in idiopathic tetany, 1920, 14, 46

F. W.
INDEX OF AUTHORS

Sharpe, J. S. The phospholipin of the blood and liver in experimental rickets in dogs, 1922, 18, 486

Sharpe, J. S., A method for the quantitative estimation of choline in blood, 1923, 17, 41.

Sharpe, J. S. Choline as a precursor of guanidine. The decrease in the amount of choline of the hen's egg during incubation, 1924, 18, 151.

Sharpe, J. S. The determination of guanidines in crustacean prawns, 1925, 19, 168.

Sharpe, J. S. see also Elmhirst, R. and Paul, J. H.

Smith, E. J. The origin of milk-fat, and its relation to the metabolism of phosphorus, 1921, 15, 705.

Smith, W. A. Some observations on yeast growth, 1918, 12, 248.

Smart, W. A. M., see Roaf, H. E.

Smedley MacLean, I. The conditions influencing the formation of fat by the yeast cell, 1922, 16, 370.


Smedley MacLean, I. and Hoffert, D. The carbohydrate and fat metabolism of yeast. Part II. The influence of phosphates on the storage of fat and carbohydrate in the cell, 1924, 18, 1273.

Smedley MacLean, I. and Hoffert, D. The carbohydrate and fat metabolism of yeast. Part III. The nature of the intermediate stages, 1926, 20, 343.


Smedley MacLean, I. and Thomas, E. M. Observations on abnormal iodine values, with special reference to the sterols and resins, 1921, 15, 319.

Smedley MacLean, I. see also Luce, E. M.


Smith, F. E. see Rhind, D.


Smith, H. H. see also Hume, E. M.

Smith, V. see Davis, J. G.

Smith, W. see Hutchinson, H. B.

Soames, K. M. A preliminary note on the growth-promoting and antirachitic value of cod-liver oil when injected intraperitoneally, 1924, 18, 1349.

Soames, K. M. see also Goldblatt, H., Golding, J. and Robson, R.

Soar, M. C., see Tinkler, C. K.


Sossiedov, N. I., see Blagoveschenski, A. V.


Southgate, H. W. The dietician value of barley, malt and malted liquors as determined by their vitamin content, 1924, 18, 769.

Southgate, H. W. The effect of fermentation on the water-soluble vitamin content of wort, 1924, 18, 1248.

Southgate, H. W. Note on the effect of high temperatures on the accessory food factor content of cod-liver oil, 1925, 19, 733.

Southgate, H. W. The effect of alcohol, under varying conditions of diet, on man and animals, with some observations on the fate of alcohol in the body, 1925, 19, 737.

Souza, D. H. De, see Hewitt, J. A. and Pickering, J. W.

Speakman, H. B., see Raper, H. S.

Squires, B. T. see Kinnersley, H. W.


Stammers, A. D. Feeding experiments in connection with vitamins A and B. (V) Orange juice as a source of vitamin B. (VI) Ophthalmia in rats affected with avitaminosis. (VII) The vitamin content of cod-liver oil and malt extract, 1924, 18, 9.


Stanford, R. V. Improvements in colorimetry, 1923, 17, 839.

Stanford, R. V. Nesslerisation, and the avoidance of turbidity in nesslerised solutions, 1923, 17, 844.
<table>
<thead>
<tr>
<th>Index of Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>THAYSEN, A. C. and BUNKER, H. J. Studies of the bacterial decay of textile fibres. I. Variations in the resistance of cotton of different origin to destruction by micro-organisms, 1924, 18, 140</td>
</tr>
<tr>
<td>THAYSEN, A. C. and THAYSEN, A. THOMAS, M. The bacterial decay of textile fibres. II. A preliminary study of the deterioration of samples of artificial silk through the action of micro-organisms, 1925, 19, 1088</td>
</tr>
<tr>
<td>THAYSEN, A. C. see also FLEMING, N. and REILLY, J.</td>
</tr>
<tr>
<td>THIMANN, K. V. A micro-method for the determination of the Hausmann numbers of proteins, 1926, 20, 1100</td>
</tr>
<tr>
<td>THOMAS, E. M. see SMEDLEY MACLEAN, I. and SCHRYVER, S. B.</td>
</tr>
<tr>
<td>THOMAS, M. The controlling influence of carbon dioxide. V. A quantitative study of the production of ethyl alcohol and acetalddehyde by cells of the higher plants in relation to concentration of oxygen and carbon dioxide, 1925, 19, 927</td>
</tr>
<tr>
<td>THOMPSON, T. J. and CARE, I. L. The relation of certain blood constituents to a deficient diet, 1923, 17, 373</td>
</tr>
<tr>
<td>THOMPSON, W. H. The formation of creatine. Effects on the excretion of creatine in the bird produced by paraformaldehyde and hex halves, given separately and combined with arginine carbonate and other substances. (With an addendum by WERNER, E. A.), 1917, 11, 307</td>
</tr>
<tr>
<td>THOMSON, D. L. Pigments of butterflies’ wings. I. Melanargia galatea, 1926, 20, 73</td>
</tr>
<tr>
<td>THOMSON, D. L. The pigments of butterflies’ wings. II. Occurrence of the pigment of Melanargia galatea in Dactylis glomerata, 1926, 20, 1026</td>
</tr>
<tr>
<td>THORPE, W. V. Experiments on the chemical nature of the oxytocic principle of the pituitary gland. 1920, 20, 374</td>
</tr>
<tr>
<td>THORPE, W. V. see also DUDLEY, H. W.</td>
</tr>
<tr>
<td>THURLOW, S. Studies on xanthine oxidase. IV. Relation of xanthine oxidase and similar oxidising systems to Bach’s oxygenase, 1925, 19, 175</td>
</tr>
<tr>
<td>THURLow, S. see also DIXON, M. and HARRISON, D. C.</td>
</tr>
<tr>
<td>TINKLER, C. K. “Fumed” oak and natural brown oak, 1921, 15, 477</td>
</tr>
<tr>
<td>TINKLER, C. K. and SOAR, M. C. The formation of ferrous sulphide in eggs during cooking, 1920, 14, 114</td>
</tr>
<tr>
<td>TOPPING, R. B. see PLIMMER, R. H. A.</td>
</tr>
<tr>
<td>TOOK, P. F. M. The effect of a diet deficient in animal fat on the bone tissue (rib junctions) of kittens, 1921, 15, 28</td>
</tr>
<tr>
<td>TOZER, F. M. see also DELF, E. M.</td>
</tr>
<tr>
<td>TREVAN, J. W. The viscosity of blood, 1918, 12, 60</td>
</tr>
<tr>
<td>TREVAN, J. W. The micrometer syringe, 1925, 19, 1111</td>
</tr>
<tr>
<td>TREVAN, J. W. A modification of the deflection balance for use in biochemical laboratories, 1926, 20, 415</td>
</tr>
<tr>
<td>TREVAN, J. W. and BAINBRIDGE, H. W. The estimation of calcium in blood-serum, 1926, 20, 423</td>
</tr>
<tr>
<td>TREVAN, J. see also BOOCK, E.</td>
</tr>
<tr>
<td>TRUSZKOWSKI, R. Studies in purine metabolism. I. Variations in the nucleoplastic ratio in the adult albino rat. II. Synthesis of purines by the adult mammalian organism, 1926, 20, 437</td>
</tr>
<tr>
<td>TSAO, E. Effect of chemical preservation of eggs upon the stability of their vitamin content, 1926, 20, 17</td>
</tr>
<tr>
<td>TUBB, S. Studies on the physiology of plain muscle. III. Comparison of the reducing properties of plain and striated muscle, 1925, 19, 397</td>
</tr>
<tr>
<td>TUNNICLIFFE, H. E. Glutathione. The occurrence and quantitative estimation of glutathione in tissues, 1925, 19, 194</td>
</tr>
<tr>
<td>TUNNICLIFFE, H. E. Glutathione. Relation between the tissues and the oxidised dipeptide, 1925, 19, 199</td>
</tr>
<tr>
<td>TUNNICLIFFE, H. E. see also QUASTEL, J. H. and STEWART, C. P.</td>
</tr>
<tr>
<td>TUTIN, F. The behaviour of pectin towards alkalies and pectase, 1921, 15, 494</td>
</tr>
<tr>
<td>TUTIN, F. A note on the hydrolysis of pectin, 1923, 17, 83</td>
</tr>
<tr>
<td>TUTIN, F. Pectin and its hypothetical precursor, &quot;propectin,&quot; 1923, 17, 510</td>
</tr>
<tr>
<td>TUTIN, F. The pectin content of normal and &quot;silvered&quot; apple leaves, 1925, 19, 414</td>
</tr>
<tr>
<td>TUTIN, F. Chemical investigations of fruits and their products. I. Apple juice as a source of sorbitol, 1925, 19, 416</td>
</tr>
<tr>
<td>TUTIN, F. Chemical investigations of fruits and their products. II. The fate of sugar during &quot;cider sickness,&quot; 1925, 19, 418</td>
</tr>
<tr>
<td>TUTIN, F. see also BARGIE, G.</td>
</tr>
<tr>
<td>VENN, E. C. V. The influence of reaction on colour changes in tyrosine solutions, 1929, 14, 99</td>
</tr>
<tr>
<td>VENN, E. C. V. see also FREEAR, K.</td>
</tr>
<tr>
<td>WALKER, E. A colour reaction for disulphides, 1925, 19, 1082</td>
</tr>
<tr>
<td>WALKER, E. The sulphydryl reaction of skin, 1925, 19, 1083</td>
</tr>
<tr>
<td>WALKER, E. see also PETERS, R. A.</td>
</tr>
<tr>
<td>WALKER, H. The influence of different substances on the diastatic activity of saliva, 1925, 19, 221</td>
</tr>
<tr>
<td>WALKER, H. see also COOPER, E. A.</td>
</tr>
<tr>
<td>WALL, N. VAN DER. The presence of antineuritic and antiscorbutic vitamins in urine, 1922, 16, 713</td>
</tr>
<tr>
<td>WARBURG, E. J. Studies on carbonic acid compounds and hydrogen ion activities in blood and nail solutions. A contribution to the theory of the equation of Lawrence J. Henderson and K. A. Hasselbalch, 1922, 16, 153</td>
</tr>
<tr>
<td>WARD, F. W. The absorption spectra of som indole derivatives, 1923, 17, 891</td>
</tr>
</tbody>
</table>
## INDEX OF SUBJECTS

**VOLS. 11—20**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic acid (Smedley MacLean and Thomas), 1921, 15, 330</td>
<td></td>
</tr>
<tr>
<td>Absorption spectra, ultra-violet, of oak extracts (Tinkler), 1921, 15, 485</td>
<td></td>
</tr>
<tr>
<td>Acacias, Australian, yellow pigments of (Petrie), 1924, 13, 957</td>
<td></td>
</tr>
<tr>
<td>Acanthopteri, carnosine in (Clifford), 1921, 15, 730</td>
<td></td>
</tr>
<tr>
<td>Accessory factors for plant growth (Rosenheim), 1917, 11, 7</td>
<td></td>
</tr>
<tr>
<td>Accessory food factors, see Vitamins</td>
<td></td>
</tr>
<tr>
<td>Acer pseudoplatanus, pN of leaf sap of (Chibnall and Grover), 1926, 20, 112</td>
<td></td>
</tr>
<tr>
<td>Acetaldehyde, action of, in reducing and oxidizing reactions in milk (Haas and Hill), 1923, 17, 679</td>
<td></td>
</tr>
<tr>
<td>action of yeast on (Smedley MacLean and Hoffert), 1928, 20, 346</td>
<td></td>
</tr>
<tr>
<td>determination of, in apple (Thomas), 1925, 19, 945</td>
<td></td>
</tr>
<tr>
<td>effect of, on action of hexosephosphatase (Harden and Henley), 1921, 15, 314</td>
<td></td>
</tr>
<tr>
<td>effect of, on fermentation of glucose and fructose in presence of phosphate and arsenate (Harden and Henley), 1921, 15, 314</td>
<td></td>
</tr>
<tr>
<td>fat-content of yeast influenced by (Smedley MacLean and Hoffert), 1923, 17, 723</td>
<td></td>
</tr>
<tr>
<td>peroxide of, produced by milk in presence of oxygen (Haas and Lee), 1924, 18, 617</td>
<td></td>
</tr>
<tr>
<td>production of, by cells of higher plants (Thomas), 1925, 19, 927</td>
<td></td>
</tr>
<tr>
<td>Acetic acid, activation of (Quastel), 1926, 20, 190</td>
<td></td>
</tr>
<tr>
<td>and its salts, influence of, on alcoholic fermentation by yeast (Katagiri), 1926, 20, 190</td>
<td></td>
</tr>
<tr>
<td>growth of B. coli communis on (Stephenson and Whetham), 1924, 18, 504</td>
<td></td>
</tr>
<tr>
<td>in acetone: n-butyl alcohol fermentation (Reilly, Hickenbottom, Henley and Thaysen), 1920, 14, 229</td>
<td></td>
</tr>
<tr>
<td>Acetic acid esters, substituted asymmetric, hydrolysis of, by lipase (Dawson, Platt and Cohen), 1926, 20, 534</td>
<td></td>
</tr>
<tr>
<td>Acetoacetic acid and ester, oxidation of, by hydrogen peroxide (Clutterbuck and Raper), 1926, 20, 59</td>
<td></td>
</tr>
<tr>
<td>and β-hydroxybutyric acid, proportion of, in blood and urine of diabetes cases (Kennaway), 1918, 12, 125</td>
<td></td>
</tr>
<tr>
<td>determination of, in urine (Goldblatt), 1925, 19, 626</td>
<td></td>
</tr>
<tr>
<td>oxidation of, by hydrogen peroxide (Clutterbuck and Raper), 1926, 20, 59, 63</td>
<td></td>
</tr>
<tr>
<td>passage of, into urine (Widmark), 1920, 14, 364</td>
<td></td>
</tr>
<tr>
<td>toxicity of, in diabetes cases (Kennaway), 1918, 12, 124</td>
<td></td>
</tr>
<tr>
<td>Acetogenous bacteria, induction of, in the intestine (Distasio and Sugden), 1919, 13, 163</td>
<td></td>
</tr>
<tr>
<td>Acetone, action of yeast on (Smedley MacLean and Hoffert), 1926, 20, 349</td>
<td></td>
</tr>
<tr>
<td>carboxylic acid coefficient of (Morgan and Cooper), 1921, 15, 593</td>
<td></td>
</tr>
<tr>
<td>determination of, in alveolar air (Widmark), 1920, 14, 385</td>
<td></td>
</tr>
<tr>
<td>elimination of, through the lungs (Widmark), 1920, 14, 379</td>
<td></td>
</tr>
<tr>
<td>micro-determination of, in blood (Widmark), 1919, 13, 430</td>
<td></td>
</tr>
<tr>
<td>passage of, into urine (Widmark), 1920, 14, 364</td>
<td></td>
</tr>
<tr>
<td>production of, from pectin (Tutin), 1921, 15, 486, 497</td>
<td></td>
</tr>
<tr>
<td>Acetone bodies, determination of, by Van Slyke's method (Smith), 1926, 20, 1024</td>
<td></td>
</tr>
<tr>
<td>determination of, in blood (Kennaway), 1918, 12, 121</td>
<td></td>
</tr>
<tr>
<td>in blood in diabetes (Kennaway), 1918, 12, 120</td>
<td></td>
</tr>
<tr>
<td>in urine during starvation, influence of ingestion of sugars on (Goldblatt), 1925, 19, 951</td>
<td></td>
</tr>
<tr>
<td>Acetone: n-butyl alcohol fermentation, products of (Reilly, Hickenbottom, Henley and Thaysen), 1920, 14, 229</td>
<td></td>
</tr>
<tr>
<td>Acetylaceetone, carboxylic acid coefficient of (Morgan and Cooper), 1921, 15, 593</td>
<td></td>
</tr>
<tr>
<td>Acetylcarbamide, action of hypobromite on (Hurtley), 1921, 15, 16</td>
<td></td>
</tr>
<tr>
<td>Acetylicholine, effect of, on lactic acid production in muscle (Evans), 1926, 20, 900</td>
<td></td>
</tr>
<tr>
<td>Achromic point, effect of fluorides on (Clifford), 1925, 19, 218</td>
<td></td>
</tr>
<tr>
<td>Acid-base exchange in mammalian voluntary muscle (Andrews, Beattie and Milroy), 1924, 18, 903</td>
<td></td>
</tr>
<tr>
<td>Acid production of B. perfringens and B. sporogenes (Wolf and Telfer), 1917, 11, 197</td>
<td></td>
</tr>
<tr>
<td>Addosis, ammonium chloride, effect of, on phosphorus partition in human blood (Kay), 1924, 18, 1133</td>
<td></td>
</tr>
<tr>
<td>in experimental tetany (Cruickshank), 1924, 18, 47</td>
<td></td>
</tr>
<tr>
<td>phosphate content of blood in (Martland), 1925, 19, 120</td>
<td></td>
</tr>
<tr>
<td>production of, by ingestion of magnesium chloride and strontium chloride (Haldane), 1925, 19, 249</td>
<td></td>
</tr>
<tr>
<td>Acids, effect of, on growth of B. coli (Wyeth), 1918, 12, 382</td>
<td></td>
</tr>
<tr>
<td>effect of, on growth of B. perfringens and B. sporogenes (Wolf and Harris), 1917, 11, 213</td>
<td></td>
</tr>
<tr>
<td>organic, rapid volumetric method for determination of (Foreman), 1920, 14, 451</td>
<td></td>
</tr>
<tr>
<td>Acromegaly, sulphur excretion in (Craig and Harington), 1924, 18, 89</td>
<td></td>
</tr>
<tr>
<td>Actinia equina, colours of (Elmhiirst and Sharpe), 1920, 14, 48</td>
<td></td>
</tr>
<tr>
<td>Actinococcus, carnosine in (Clifford), 1921, 15, 729</td>
<td></td>
</tr>
</tbody>
</table>
INDEX OF SUBJECTS

Activation, mechanism of (Quastel), 1926, 20, 174
of pancreatic juice by enterokinase (Seth), 1924, 18, 1401
of washed zymsin, conditions of (Harden), 1917, 11, 64
Adrenaline, differential equilibrium, 1917, 11, 172
Adenine, antineuritic properties of, the alleged (Harden and Zilva), 1917, 11, 571
in nucleic acid of Azotobacter (Mockering), 1924, 18, 552
occurrence of, in soils (Mockering), 1920, 14, 432
oxidation of, by milk oxidase (Dixon), 1926, 20, 704
Adenine phosphotungstate (Drummond), 1918, 12, 17
Adipochrome, 1920, 14, 432
Adipose tissue fat (Currie), 1924, 18, 231
Adrenal glands, adrenaline content and weight of, in normal and vitamin-deficient rats (Gross), 1923, 17, 570, 571
Adrenaline, action of glutathione on (Handovsky), 1926, 20, 1120
action of, on secretion of mammary gland (Rothlin, Plimmer and Husband), 1922, 16, 3
effect of, on production of urea in autolysis (McCance), 1924, 18, 490
tyrosine as parent substance of (Raper), 1926, 20, 737
Adrenaline equilibrium, effects of vitamin-deficient diets on (Gross), 1923, 17, 569
Adsorbents, differential behaviour of vitamins B and C towards (Harden and Zilva), 1918, 12, 93
Adsorption and fermentation, arithmetical test of the validity of the theory of Bayliss regarding (Brownlee), 1925, 19, 162
Adsorptive stratification in gels (Bradford), 1917, 11, 14
Aerobic bacteria, oxygen uptake of (Callow), 1924, 18, 510
Agar-agar, coefficients of diffusion of sulphates in (Stiles), 1921, 15, 631, 632
penetration of chlorides into (Stiles), 1923, 17, 531
Agar solutions, opalescence in (Bradford), 1921, 15, 559
Agaricus campestris, oxidase system of (Robinson), 1924, 18, 546
vitamin A in (Coward and Drummond), 1921, 15, 535, 538
Agaricus dryophilus, tyrosinase from (Raper and Speakman), 1926, 20, 70
Agaricus rubescens, examination of, for a phytosterol (Ellis), 1918, 12, 176
Age, influence of, upon activity of phosphoric esterase from various tissues of rats and rabbits (Robinson and Soames), 1924, 18, 741
influence of, upon chemical composition of muscle substance of herring (Bruce), 1924, 18, 478
relation of milk secretion to (Hartwell), 1921, 15, 145
Agglutination of red blood corpuscles by polyvalent ions (Gough), 1924, 18, 209
Agglutinins, production of, effect of deficient nutrition on (Zilva), 1919, 13, 172
production of, in guinea-pigs, not inhibited by deficiency of vitamin C (Zilva), 1919, 13, 190, 191
production of, in rats, not inhibited by gliadin (Zilva), 1919, 13, 187
production of, influenced by mineral constituents of diet (Zilva), 1919, 13, 184
Alanine, absorption spectrum of (Ward), 1923, 17, 900
action of hypochlorite on (Wight), 1926, 20, 526, 528
isolation of, from englobulin and pseudoglobulin (Dudley and Woodman), 1918, 12, 349
oxidative deamination of, in vitro (Fearon and Montgomery), 1924, 18, 580
permeability of red corpuscles to (Kozawa and Miyamoto), 1921, 15, 167
removal of, from hydrolysis products of caseinogen (Foreman), 1919, 13, 384
Alanine phosphotungstate (Drummond), 1918, 12, 11
β-Alanyllhistidine, condensation of γ-trinitrotoluene with (Barger and Tutin), 1918, 12, 405
See also Carnosine
Albumin, blood-, influence of diet containing, on mammary secretion (Hartwell), 1921, 15, 565
effect of changes in pH on heat-denaturation of (Homer), 1917, 11, 297
egg-, amino-nitrogen content of solution of, effect of heat on (Clifford), 1924, 18, 670
egg-, critical increment of heat-denaturation of (Lewis), 1926, 20, 983
egg-, heat-coagulation of (Mastin and Rees), 1926, 20, 759
egg-, heat-denaturation of, influence of pH on (Lewis), 1926, 20, 979
egg-, hydrolysis of, by heat-stable catalyst present in cod muscle (Clifford), 1924, 18, 672
egg-, in diet, sparing effect of (Wilson), 1925, 19, 327
egg-, influence of diet containing, on mammary secretion (Hartwell), 1921, 15, 565
egg-, of duck and hen, anaphylactic reactions of (Dakin and Dale), 1919, 13, 251
heat-coagulation of (Mastin and Rees), 1926, 20, 759
heat-denaturation of, influence of, on proteins of concentrated antitoxic sera (Homer), 1917, 11, 292
influence of, on lipase action (Platt and Dawson), 1925, 19, 869
liberation of sulphhydryl substance on precipitation of (Mastin and Rees), 1926, 20, 761
of cow's colostrum, isolation of (Woodman), 1921, 15, 193
cow's milk, isolation of (Woodman), 1921, 15, 194
serum-, of cow and ox, isolation of (Woodman), 1921, 16, 191
Amino-acid excretion in Singapore (Campbell), 1920, 14, 603

Amino-acid phosphotungstates, properties of individual (Drummond), 1918, 12, 11

Amino-acids (Dakin), 1918, 12, 290; 1919, 13, 398

absorption spectra of some (Ward), 1923, 17, 898

action of hypochlorites on (Wright), 1926, 20, 524

action of tyrosinase on (Raper and Wormall), 1925, 19, 94; (McCance), 1925, 19, 1022

and bases, separation of, by means of phosphotungstates (Drummond), 1918, 12, 5, 21, 23

assimilation of nitrogen from, by yeast (Lampitt), 1919, 13, 459

bacterial production of colour changes upon (Cornish and Williams), 1917, 11, 180

determination of allantoin in presence of (Langfeldt and Holmsen), 1925, 19, 715

determination of, by titration in presence of alcohol (Foreman), 1920, 14, 458

determination of, by rapid volumetric method (Foreman), 1920, 14, 451

effect of, on determination of glucose (Holden), 1926, 20, 265

estimation of, preparation of (Foreman), 1919, 13, 378

extraction of, by means of partially miscible solvents (Dakin), 1918, 12, 290

from hydrolysis of racemised colourless euglobulin and pseudoglobulin, optical properties of the (Dudley and Woodman), 1918, 12, 340, 342

in diet, effect of, upon production of agglutinins and amboceptor (Zilva), 1919, 13, 185, 186

isolation of, from euglobulin and pseudoglobulin (Dudley and Woodman), 1918, 12, 347

lead salts of (Foreman), 1919, 13, 378

mono-, extracted by butyl alcohol from the hydrolysis products of caseinogen (Dakin), 1918, 12, 298

mono-, yield of, from caseinogen (Foreman), 1919, 13, 380

not extracted by butyl alcohol from the hydrolysis products of caseinogen, separation of aspartic, glutamic and other acids from the (Dakin), 1918, 12, 299

of flesh (Rosedale), 1925, 16, 27

oxidation of, by enzyme from Lactarius vellereus (Robinson and McCance), 1925, 19, 252

oxidation of, influence of phenols on (Borsook and Wasteneys), 1925, 19, 1129

oxidation of, with chloramine-T (Dakin), 1917, 11, 79

permeability of red corpuscles for (Kozawa and Miyamoto), 1921, 15, 167

photo-oxidation of (Harris), 1926, 20, 288

precipitated by mercuric sulphate from caseinogen digests, separation of (Onslow), 1921, 15, 394

precipitation of, as carbamates (Kingston and Schryver), 1924, 18, 1074

precipitation of, by phosphotungstic acid (Drummond), 1918, 12, 5

Amino-acids, protective influence of, on tryptophan, during baryta hydrolysis (Onalow), 1921, 15, 387

separation of, from products of hydrolysis of proteins (Buston and Schryver), 1921, 15, 636

solubilities of phosphotungstates of (Drummond), 1918, 12, 5, 11, 21

solubility of, in solutions of other amino acids (Onalow), 1921, 15, 389

specific dynamic action and metabolism of, relation between (Seth and Luck), 1925, 19, 366

supposed deaminising action of tyrosinase on (Happold and Raper), 1925, 19, 92

Amino-compounds and carbohydrates, interaction of (Hynd), 1926, 20, 195, 205; (Hynd and Macfarlane), 1926, 20, 1264

methylation of, by formaldehyde (Werner), 1917, 11, 318

Amino-ethyl alcohol (colamine) phosphotungstate (Drummond), 1918, 12, 19

Amino-nitrogen, free, interaction of, with glucose (Borsok and Wasteneys), 1925, 19, 1128

N'-Aminopropylpyrrolidine from spermine (Dudley, Rosenheim and Starling), 1926, 20, 1096

Ammonia, action of, on complement (Gordon, Whitehead and Wormall), 1926, 20, 1028

action of, on oak in presence and absence of oxygen (Tinkler), 1921, 18, 477

and nicotine, methods for separating (Fodor and Reifenberg), 1925, 19, 527

determination of, by nesslerisation (Folin), 1924, 18, 460

determination of, colorimetric, in blood (Murray), 1925, 19, 296

determination of, in urine (Levy-Simpson and Carroll), 1923, 17, 391; (Lish), 1924, 18, 506; (Murray), 1925, 19, 294

excretion in Singapore (Campbell), 1920, 14, 603

formation of, from amino-acids, by tyrosinase (Raper and Wormall), 1925, 19, 96

from caseinogen, by acid hydrolysis or tryptic digestion (Luck), 1924, 18, 679

fumaric acid and l-aspartic acid, equilibrium between, in presence of resting bacteria (Quastel and Woolf), 1926, 20, 545

"fuming" action of, on silk after treatment with oak extracts (Tinkler), 1921, 15, 481

in autolysis, possible precursors of (McCance), 1924, 18, 496

in autolysis, production of (McCance), 1924, 18, 486

in autolysis, relation of urea to (McCance), 1924, 18, 490

in blood (Luck and Seth), 1925, 19, 360, 363

method for rapid removal of, in quantitative determinations (Stanford), 1925, 17, 847

of blood in nephritis (Russell), 1923, 17, 72

Ammonia coefficient of pregnancy (Cullis and Hewer), 1920, 14, 757

Ammonia production by animal tissues in vitro (Luck), 1924, 18, 814, 825
INDEX OF SUBJECTS

Ammonium acetate, influence of, on fermentation (Katagiri), 1926, 20, 430, 432
Ammonium chloride, effect of ingestion of, on calcium content of human serum and urine (Stewart and Haldane), 1924, 18, 855
effect of, on yield of milk from cow (Mattick and Wright), 1925, 19, 917
Ammonium formate, influence of, on fermentation (Katagiri), 1926, 20, 431, 433
Ammonium phosphotungstate (Drummond), 1918, 12, 21
Ammonium picrate, solubility of (Greenwald), 1926, 20, 666
Ammonium sulphate, coefficient of diffusion of, in gelatin and agar-agar (Stiles), 1921, 15, 631
Amphibia, carnosine in (Clifford), 1921, 15, 731
iso-Amylamine phosphotungstate (Drummond), 1918, 12, 15
Amylase, effect of dialysis on activity of (Eadie), 1926, 20, 1018
effect of neutral salts on activity of (Eadie), 1926, 20, 1020
effect of $pH$ on activity of (Eadie), 1926, 20, 1021
of germinated barley, effect of substrate concentration on hydrolysis of starch by (Eadie), 1926, 20, 1016
pancreatic, dried active preparation of (Foster and Woodrow), 1924, 18, 563
presence of, in milk and cheese (Sato), 1920, 14, 120
iso-Amyethylbarbituric acid, inhibition of glycosylation in blood (Irvine), 1926, 20, 618
iso-Amylguanidine, (dihydrogaleine) synthesis of (Barger and White), 1923, 17, 831
$\alpha$-Amylase action of ultra-violet light on (Rosenheim and Webster), 1926, 20, 542
Amytal anaesthesia (Drummond and Marrian), 1926, 20, 1237
Anacanthini, carnosine in (Clifford), 1921, 15, 730
Anaker (Scott), 1923, 17, 157, 166
chronic experimental, the part played by iron and fat in the recovery of rats from (Scott), 1924, 18, 347
due to exclusive nutrition with milk (Brouwer), 1926, 20, 104
experimental, in rats (Scott), 1923, 17, 166
influence of diet and bleeding on (Scott), 1923, 17, 159
Anaerobes, pathogenic, biochemistry of (Wolf and Teller), 1917, 11, 197; (Wolf and Harris), 1917, 11, 213
"strict" (Quastel and Stephenson), 1926, 20, 1125
Anaerobic bacteria, oxygen uptake of (Callow), 1924, 18, 514
production of sulphhydryl compounds by, in meat broth (McLeod and Gordon), 1924, 18, 938
Anaerobic conditions, effect of, on ammonia and urea production in autolysis (McCance), 1924, 18, 489
Anaerobic growth of Escherichia coli communis, necessary conditions for (Stephenson and Whetham), 1924, 18, 505
Anaerobic growth of bacteria (Quastel and Stephenson), 1925, 19, 660
of bacteria, correlation of, with activating power of (Quastel and Stephenson), 1925, 19, 663
of bacteria, effect of salts on (Quastel and Stephenson), 1925, 19, 665
of bacteria on pyruvic acid (Quastel and Stephenson), 1925, 19, 664
some reactions of resting bacteria in relation to (Quastel, Stephenson and Whetham), 1925, 19, 304
Anaerobic metabolism, thermal study of a possible source of energy in (Davis, Slater and Smith), 1926, 20, 1155
Anaesthetics, ether, effect of, on inorganic phosphate and total phosphorus of blood (Martland and Robison), 1924, 18, 768
Anaesthesia, influence of, on osmotic pressure of colloids (Ogata), 1922, 16, 449, 454
Ananas sativas, oxidising enzymes of (Onslow), 1921, 15, 116
Anaphylactic reactions of egg-albumin of duck and hen (Dakin and Dale), 1919, 13, 251
Anamonia sulcata, colours of (Elmhirst and Sharpe), 1920, 14, 48
Angiosperms, oxygenase in (Onslow), 1921, 15, 108
Animal tissues, vitamin B in actively growing (Drummond), 1918, 12, 40
Anisole, influence of, on nitrogen and sulphur excretion (Coombs and Hele), 1926, 20, 610
Antagonism in relation to permeability (Corran and Lewis), 1924, 18, 1368
Antenatal feeding, effect of, on offspring in rats (Korenchevsky and Carr), 1923, 17, 597
Anthocyandin test for glucoside in flower pigments (Rosenheim), 1918, 12, 285
Anthracyanins, butyl alcohol for, as a solvent for (Rosenheim), 1920, 14, 73
of young leaves of the grape vine (Rosenheim), 1920, 14, 178
Anticoagulant action of nucleic acids on blood (Pickering and de Souza), 1923, 17, 755
of "peptone" on blood (Pickering and de Souza), 1923, 17, 755
Antidiphtheritic plasma, association of the antitoxin with proteins in (Homer), 1920, 14, 42
Antidysenteric serum, association of the antitoxins with proteins in (Homer), 1920, 14, 42
Antigenic specificity and chemical structure (Dakin and Dale), 1919, 13, 248
Antigens, Wassermann, some colloidal properties of (Kermack and MacCallum), 1924, 18, 1381
Antiglyoxalase and Antenatal feeding, some association with toxins (Callow), 1923, 17, 213
Antihistamine test for vitamin A (Carr and Price), 1926, 20, 497
Antineuritic factor and water-soluble growth-promoting factor B, assumed identity of (Drummond), 1917, 11, 290
Antineuritic properties, value
Antirachitic (Antirachitic factor, Antirachitic action, Antirachitic factor, see Vitamin D)
Antirachitic potency of irradiated sawdust (Rosenheim and Webster, 1926, 20, 1340)
Antirachitic properties and their relation of, al8o of cow's milk (Harden and Zilva), 1918, 12, 271
of milk, dried, comparison of summer and winter milks (Jephcott and Bacharach), 1921, 15, 135, 138
of milk, dried, effect of method of drying on (Jephcott and Bacharach), 1921, 15, 137
of milk, full cream sweetened condensed, for monkeys (Hume), 1921, 15, 163
of milk, relative, fresh, dry and heated cow's (Barnes and Hume), 1919, 13, 306
of orange-juice, seasonal variations in (Davey), 1921, 15, 88
of seeds, dry and germinated (Chick and Delf), 1919, 13, 199
of sugars, tested for by guinea-pigs (Harden and Zilva), 1918, 12, 271
of tomatoes, English, fresh and canned (Delf), 1924, 18, 674
of vegetables and herbs, dried (Delf and Skelton), 1918, 12, 448-50
of vegetables, dried and cooked (Delf and Skelton), 1918, 12, 463
of vegetables, methods of cooking, with reference to loss of (Delf), 1918, 12, 428, 430-1
Antiscorbutic preparations, conservation of potency of (Zilva), 1923, 17, 416; 1924, 18, 186
reducing properties of (Connell and Zilva), 1924, 18, 658
Antiscorbutic properties of cabbage, dried (Delf and Skelton), 1918, 12, 448
of cabbage, raw and heated (Delf), 1918, 12, 416
of fruit-juices, concentrated (Harden and Robison), 1920, 14, 171; 1921, 15, 521
of vegetables, effect of cooking on (Shorten and Ray), 1921, 15, 254
of vegetables, sun-dried (Shorten and Ray), 1921, 15, 463
Antiscorbutic requirements of the monkey (Harden and Zilva), 1920, 14, 131
Antiscorbutic value of orange-juice and raw swede-juice in infant feeding (Chick, Hume and Skelton), 1918, 12, 151
Antitoxic plasma, association of the antitoxin with proteins in (Homer), 1920, 14, 42
Antithrombins in liver (Pickering and Hewitt), 1921, 15, 715
Antithrombins (Pickering and Hewitt), 1922, 16, 587
Antitoxic sera, concentrated, effect of heat-denaturation of pseudoglobulin and albumin on the nature of the proteins of (Homer), 1917, 11, 292
concentration of, by heating and adding sodium chloride (Homer), 1918, 12, 190
concentration of, effect of phenol and cresylic acid on the (Homer), 1917, 11, 277
factors causing irregular results in concentration of (Homer), 1917, 11, 31, 37
precipitation of, by sodium and ammonium sulphate (Homer), 1919, 13, 278
reaction of, in relation to concentration processes (Homer), 1917, 11, 21
INDEX OF SUBJECTS

Antitoxin and associated proteins, separation of, from heat-denaturated sera (Homer), 1919, 13, 45 associated with pseudoglobulin, increased precipitability of, from heat-denaturated solutions (Homer), 1919, 13, 56 diphtheria, heat-inactivation of (Homer), 1920, 14, 565 distribution of, in protein fractions of sera (Homer), 1919, 13, 50, 63 in pseudoglobulin of sera (Homer), 1919, 13, 46 precipitation of, affected by heat-denaturation of protein (Homer), 1919, 13, 60 Antitoxins, association of, with proteins of immunised horse-serum (Homer), 1920, 14, 42 Antitryptic action of blood-serum, comparison of the (Young), 1918, 12, 501–8 of blood-serum, effects of varying the amount of serum on (Young), 1918, 12, 502–5 of blood-serum of normal animals of different species, variations in the (Young), 1918, 12, 508 of blood-serum of normal animals of same species, similarity of (Young), 1918, 12, 507 Antitryptic Index of blood-serum, methods of obtaining (Young), 1918, 12, 500–2 Antitryptic power of blood-serum as a possible clinical test (Young), 1918, 12, 500 Apple, cytopentans and cytopetic acid in the (Clayson, Norris and Schryver), 1921, 15, 495 determination of acetaldehyde and ethyl alcohol in (Thomas), 1925, 19, 945 oxidase and peroxidase in (Onslow), 1920, 14, 542 oxidase of, separation of, into three constituents (Robinson), 1924, 18, 544 pectin, soluble of the (Carré and Haynes), 1922, 16, 60 preparation of pectin from the (Tutin), 1921, 15, 495 relation of pectose and pectin in the (Carré), 1925, 19, 257 respiration of, production of acetaldehyde and ethyl alcohol during (Thomas), 1925, 19, 928 unripe, pectin content of the (Tutin), 1923, 17, 51 Apple juice as a source of sorbitol (Tutin), 1925, 19, 416 composition of, effect of freezing upon (Haynes and Judd), 1919, 13, 274 composition of, effect of methods of extraction on (Haynes and Judd), 1919, 13, 279 Apple leaves, normal and “silvered,” the pectin content of (Tutin), 1925, 19, 414 Apple residues, methyl alcohol in (Clayson, Norris and Schryver), 1921, 15, 647 Apple, oxidising enzymes of (Onslow), 1921, 15, 115 Aqueous humour, from rabbits, reactive sugar in (van Creveld), 1923, 17, 864 Arabinose from beech-wood hemicellulose (O’Dwyer), 1926, 20, 662 Arachidic acid, cholesteryl ester of, preparation of (Gardner and Fox), 1924, 18, 1064 Arginase and ammonia formation by tissues in vitro (Luck), 1924, 18, 826 effect of oxygen on action of (McCance), 1924, 18, 493 in liver, spleen and kidney (McCance), 1924, 18, 492 Arginase, action of nitrous acid on (Plimmer), 1924, 18, 108 as precursor of purines (Stewart), 1925, 19, 266, 1101 bromination of (Plimmer and Phillips), 1924, 18, 314 deficiency of, in diet, effect of, on allantoin excretion and weight of rats (Stewart), 1925, 19, 1103, 1106 determination of (Plimmer and Rosedale), 1925, 19, 1020 dissociation constants of (Hunter and Borsook), 1924, 18, 883 iso-electric point of (Hunter and Borsook), 1924, 18, 888 removal of, from hydrolysed caseinogen (Stewart), 1925, 19, 1103 Arginine carbonate, administration of, to bird in conjunction with paraformaldehyde and hexamethylenetetramine (Thompson), 1917, 11, 307 Arginine phosphotungstate (Drummond), 1918, 12, 13 Arsenate, effect of, on fermentation in presence of acetaldehyde and phosphate (Harden and Henley), 1921, 15, 178 effect of, on lactic acid production in muscle (Evans), 1926, 20, 899 effect of, on lactic acid production in plain muscle (Evans), 1925, 19, 1121 Arsenic, determination, colorimetric, of minute amounts of (Atkins and Wilson), 1926, 20, 1223 Artemisia afra, constituents of flowering tops of (Goodson), 1922, 16, 489 Arthropoda, carnosine in (Clifford), 1921, 15, 729 Artichoke, oxidase of, separation of, into three constituents (Robinson), 1924, 18, 544 Ascaris lumbricoides, duration of activity of, in hydrogen (Slater), 1925, 19, 606 metabolic processes in (Slater), 1925, 19, 604 preparation of glycogen from (Slater), 1924, 15, 623 Ascosphyllum nodosum, ethereal sulphate in (Haas and Russell-Wells), 1923, 17, 703 Ash, the normal and diseased, distribution of lignin in different parts of (Mehta), 1925, 15, 998 Asparagus, in metabolism of mature plant (Chibnall), 1924, 18, 395 in metabolism of runner bean (Chibnall), 1922, 16, 599, 604 Aspartic acid, action of hypochlorite on (Wright), 1926, 20, 530 activation of, by B. prodigiosus and B. proteus (Quastel and Wooldridge), 1925, 19, 656 as hydrogen donator in presence of resting B. coli (Quastel and Whetham), 1925, 19, 647 Bioch.
INDEX OF SUBJECTS

B. coli, resting, effect of, on lactate plus chlorate (Quastel, Stephenson and Whetham), 1925, 19, 312
resting, effect of, on lactate plus nitrate (Quastel, Stephenson and Whetham), 1925, 19, 311
resting, effect of, on di-malic acid and ammonium chloride (Quastel and Woolf), 1926, 20, 553
resting, effect of, on nitrates, etc. (Quastel, Stephenson and Whetham), 1925, 19, 306
resting, effect of, on various acids in the presence of ammonia (Quastel and Woolf), 1926, 20, 553
resting, preparation of (Quastel and Woolf), 1926, 20, 546
strains of (Wyeth), 1919, 13, 10
B. diphtheriae, mechanism of reversal in re-action of medium, caused by (Wolf), 1922, 16, 541
B. faecalis alcaligenes, as hydrogen activator (Quastal and Wooldridge), 1925, 19, 653
decomposition of histidine by (Raistrick), 1919, 13, 450
oxygen uptake of (Callow), 1924, 18, 511
peroxidase of (Callow), 1926, 20, 248
B. fluorescens, decomposition of tryptophan and tyrosine by (Raistrick and Clark), 1925, 15, 76, 80
oxygen uptake of (Callow), 1924, 18, 510
peroxidase of (Callow), 1926, 20, 248
B. fluorescens lig., fermentation of succinic and fumaric acids by (Quastal), 1924, 18, 365
B. lactis aerogenes, action of, on gluconic acid, glucose, mannitol and saccharic acid (Kay), 1926, 20, 325
fermentation of i-inositol by (Hewitt and Steabben), 1921, 15, 665
B. megatherium, oxygen uptake of (Callow), 1924, 18, 512
peroxidase of (Callow), 1926, 20, 248
B. mesentericus, action of, on cellulose (Thaysen and Bunker), 1926, 20, 692
B. paratyphosus, decomposition of histidine by (Raistrick), 1919, 13, 450
B. paratyphosus A, peroxidase of (Callow), 1926, 20, 248
B. paratyphosus B, peroxidase of (Callow), 1926, 20, 248
B. perfringens, acid production by (Wolf and Telfer), 1917, 11, 197
effect of acids on growth of (Wolf and Harris), 1917, 11, 213
B. prodigious as hydrogen activator (Quastal and Wooldridge), 1925, 19, 652
decomposition of tryptophan by (Raistrick and Clark), 1921, 15, 76
oxygen uptake of (Callow), 1924, 18, 509
peroxidase of (Callow), 1926, 20, 248
B. proteus vulgaris as hydrogen activator (Quastal and Wooldridge), 1925, 19, 652
colour produced by, in tryptophan solutions (Matick and Williams), 1921, 15, 213
decomposition of histidine by (Raistrick), 1919, 13, 450
decomposition of tryptophan by (Raistrick and Clark), 1921, 15, 76
from Stilton cheese, discoloration produced by (Cornish and Williams), 1917, 11, 181
B. proteus vulgaris, oxygen uptake of (Callow), 1924, 18, 511
peroxidase of (Callow), 1926, 20, 248
B. pyocyaneus, action of germicides on (Cooper and Forstner), 1924, 18, 941
decomposition of histidine by (Raistrick), 1919, 13, 450
decomposition of tryptophan and tyrosine by (Raistrick and Clark), 1921, 15, 76, 80
fermentation of succinic and fumaric acids by (Quastal), 1924, 18, 509
growth, anaerobic, of (Quastal, Stephenson and Whetham), 1925, 19, 310
oxygen uptake of (Callow), 1924, 18, 509
peroxidase of (Callow), 1926, 20, 248
B. serratia marcescens, acid production by (Wolf and Telfer), 1917, 11, 197
growth of, aerobic (Quastal and Stephenson), 1926, 20, 1127
growth of, effect of acids on (Wolf and Harris), 1917, 11, 213
growth of, effect of cystine hydrochloride on (Quastal and Stephenson), 1926, 20, 1126
growth of, effect of glutathione on (Quastal and Stephenson), 1926, 20, 1126
growth of, effect of sulphhydryl group on (Quastal and Stephenson), 1926, 20, 1130
growth of, effect of thioglycollic acid on (Quastal and Stephenson), 1926, 20, 1126
growth of, inhibitory action of hydrogen peroxide on (Quastal and Stephenson), 1926, 20, 1134
oxygen uptake of (Callow), 1924, 18, 513
peroxidase of (Callow), 1926, 20, 248
toxicity of oxygen for (Quastal and Stephenson), 1926, 20, 1129
B. subtilis, action of, on cellulose (Thaysen and Bunker), 1926, 20, 692
action of, on nitrate and chlorate (Quastal, Stephenson and Whetham), 1925, 19, 308
growth of, anaerobic (Quastal, Stephenson and Whetham), 1925, 19, 311
oxygen uptake of (Callow), 1924, 18, 512
peroxidase of (Callow), 1926, 20, 248
B. tetanomorphus, growth of, effect of sulphhydryl group on (Quastal and Stephenson), 1926, 20, 1130
B. typhus, bactericidal action of quinones on (Morgan and Cooper), 1921, 15, 591
effect of germicides on (Cooper and Forstner), 1924, 18, 941
B. welchii, see B. perfringens
Bacteria, action of, on amino-acids (Raistrick and Clark), 1921, 15, 79
action of, on cotton (Fleming and Thaysen), 1920, 14, 25
aerobic decomposition of tryptophan and tyrosine by (Raistrick and Clark), 1921, 15, 76
cellulose-decomposing, rate of destruction of artificial silks by (Thaysen and Bunker), 1925, 19, 1080
coli-typhus group of, conversion of histidine into urocanic acid by (Raistrick), 1917, 11, 71
colour changes produced by, upon caseinogen and amino-acids (Cornish and Williams), 1917, 11, 180

C 2
Bacterial action and decomposition of histidine by (Raistrick), 1918, 13, 446; (Raistrick and Clark), 1921, 15, 76
development of isozyme by (Raistrick), 1918, 13, 446
effect of presence of, on rate of reproduction of Colpidium colpoda (Cutler and Crump), 1924, 18, 905
grow and decomposition (Coombs and Stephenson), 1926, 20, 998
growth of, anaerobic (Quastel and Stephen-son), 1925, 19, 600
growth of, influence of surface tension of (Wolf), 1923, 17, 813
lipophores in (Reader), 1925, 19, 1039
metabolism, basal, of, determination of (Callow), 1924, 18, 507
metabolism of (Raistrick and Clark), 1921, 15, 79
nitrogen-fixing, nucleic acid derivatives in (Mockeridge), 1924, 18, 550
nitroprusside reaction of (Callow and Robinson), 1925, 19, 19
oxygen uptake of (Callow), 1924, 18, 507
peroxidase, heat-stable, of (Callow), 1926, 20, 247
production of hydrogen peroxide by (McLeod and Gordon), 1922, 16, 499
production of sulphydryl compounds by, in meat broth (McLeod and Gordon), 1924, 18, 937
resting, and anaerobic growth (Quastel, Stephenson and Whetham), 1925, 19, 304
resting, dehydrogenations produced by (Quastel and Whetham), 1925, 19, 520, 645; (Quastel and Wooldridge), 1925, 19, 652; (Quastel), 1926, 20, 166
resting, equilibrium between l-aspartic acid, fumaric acid and ammonia in presence of (Quastel and Woolf), 1926, 20, 545
resting, equilibrium existing between succinic, fumaric and malic acids in presence of (Quastel and Whetham), 1924, 18, 519
synthesis of starch from sugar by (Grey), 1924, 18, 712
Bacterial action and composition of substrate (Kay), 1920, 20, 321
influence of, in producing growth-promoting substances in manures (Mockeridge), 1920, 14, 432
Bacterial action and composition of substrate (Kay), 1920, 20, 321
influence of, in producing growth-promoting substances in manures (Mockeridge), 1920, 14, 432
Bacterial cultures, production of organic sulphur compounds in (McLeod and Gordon), 1924, 18, 937
Bacterial decay of artificial silks (Thaysen and Bunker), 1925, 19, 1088
Bacterial decomposition of textile fibres (Thaye-sen, Bakes and Bunker), 1926, 20, 210; (Thaysen and Bunker), 1926, 20, 692
Bacterial growth, possible role of pyruvic acid in (Quastel), 1925, 19, 641
Bacterial nutrition (Whitehead), 1923, 17, 742; 1924, 18, 829; 1926, 20, 1147
Bactericidal action of blood in certain dietary deficiencies (Findlay and Maclean), 1925, 19, 63
of organic compounds of mercury (Henry, Sharp and Brown), 1925, 19, 513
of quinones (Morgan and Cooper), 1921, 15, 587
Bactericidal action of telluric acid (Morgan, Cooper and Burtt), 1924, 18, 200
of tellurium derivatives of diketones (Morgan, Cooper and Burtt), 1923, 17, 30; 1924, 18, 180
selective (Cooper and Forstner), 1924, 18, 941
Balance, deflection (Trevan), 1926, 20, 419
torsion, errors of (Ponder and Howie), 1921, 15, 171
Banana, oxidase and peroxidase in (Onslow), 1923, 14, 545
oxidase of, separation of, into three constitu-ents (Robinson), 1924, 18, 544
Barcroft’s blood-gas apparatus, theory of (Parsons), 1921, 15, 202
Barley, dietetic value of, as determined by its vitamin content (Southgate), 1924, 18, 769
germinated, amylase of, effect of substrate concentration on hydrolysis of starch by (Edie), 1926, 20, 1016
germinated and ungerminated, maltase in (Ling and Nanji), 1923, 17, 593
investigation of, of vitamins B and C (Harden and Zilva), 1924, 18, 112
Barley meal, nitrogen and mineral content of (Richards, Godden and Husband), 1924, 18, 654
Bases, organic, determination of, rapid volumetric (Foreman), 1920, 14, 451
phosphotungstases of (Drummond), 1918, 12, 5
Basidiomycetes, oxidase of, separation of, into two constitu-ents (Robinson), 1924, 18, 545
Batyl alcohol, isolation of, from liver oil of Somniosus (Weidemann), 1926, 20, 686
probably present of, in cod-liver oil (Drummond, Channon and Coward), 1925, 19, 1056
Batyl dip.thallic ester acid (Weidemann), 1926, 20, 689
Bean, broad, isoelectric points of proteins from (Pearsall and Ewing), 1924, 18, 331
runner, asparagine isolated from (Chibnall), 1924, 18, 399
runner, leaf proteins of (Chibnall and Schryver), 1921, 15, 72
runner, leaves of, distribution of nitrogen of (Chibnall), 1922, 16, 344
runner, leaves of, method of sampling (Chibnall), 1922, 16, 345
runner, leaves of, separation of protein, soluble products and cellular matter of (Chibnall), 1922, 16, 346
runner, nitrogenous metabolism of (Chibnall), 1924, 18, 389, 405
Beans, dried, methods of cooking (Masters), 1918, 12, 231
dried, use of sodium bicarbonate in cooking (Masters), 1918, 12, 236
germinated, antiscorbutic value of (Chick and Delf), 1919, 13, 213
germinated, digestibility of (Adkins), 1920, 14, 637
haricot, cooking of (Masters), 1918, 12, 243
See also Legumes
Beech-wood, hemicelluloses from (O’Dwyer), 1926, 20, 658
pectic substance of (O’Dwyer), 1925, 19, 694
Bezssonoff's colour reaction (Bezssonoff), 1924, 18, 639

Ble, blue fluorescent substance of, in ultraviolet light (Kinnersley, Peters and Squires), 1925, 19, 407

Ble salts, influence of, on lipase action (Platt and Dawson), 1925, 19, 469

Biostin (Drummond, Channon and Coward), 1925, 19, 1061

Bird, creatine excretion in, produced by paraformaldehyde and hexamethylenetetramine (Thompson), 1917, 11, 307

Birds, carnosine in (Clifford), 1921, 15, 732

a3-Bis(α-aminopropylamino)-butane (Dudley, Rosenheim and Starling), 1926, 20, 1084

a3-Bis(α-bromopropylamino)-butane (Dudley, Rosenheim and Starling), 1926, 20, 1084

a3-Bis(α-phenoxypropylamino)-butane (Dudley, Rosenheim and Starling), 1926, 20, 1084

Bismuth, circulation of, in the organism (Lomholt), 1924, 18, 693
determination of, in tissues (Lomholt), 1924, 18, 700

Bjerrum's dissociation theory (Warburg), 1922, 16, 162

Blackberry, oxidising enzymes of (Onslow), 1921, 15, 115

Bladder, diffusion of adrenaline from, to blood (Widemark), 1920, 14, 364

Blood, acetone bodies in, determination of (Kennon), 1918, 12, 121

acids of, fixed, in pathological conditions (Parsons and Poulton), 1923, 17, 352

action of kidney phosphatase on (Kay), 1926, 20, 805

action of light on (Harris), 1926, 20, 271

adrenaline content of, in normal and vitamin-deficient rats (Gross), 1923, 17, 573
Blood, amino-acids in, after ingestion of glycine or histidine (Luck and Seth), 1925, 19, 368
ammonia content of, in nephritis (Russell), 1923, 17, 72
arterial hydrogen ion concentration of (Martin and Lepper), 1926, 20, 41
bactericidal action of, after irradiation (Findlay and Maclean), 1925, 19, 65
bactericidal action of, in certain dietary deficiencies (Findlay and Maclean), 1925, 19, 63
benzidine test for (Stammers), 1926, 20, 620
bicarbonate of the plasma, in scorbutic guinea-pigs (Lepper and Zilva), 1925, 19, 581
calcium content of, during pregnancy (Widdow), 1923, 17, 34; 1924, 18, 555
calcium of, distribution of, between plasma and cells in tetany (Cruickshank), 1923, 17, 14
capillary, effect of dilution on hydrogen ion concentration of (Martin and Lepper), 1926, 20, 37
capillary, micro-determination of $p_H$ of (Martin and Lepper), 1926, 20, 41
carbon monoxide in, extraction of (Tervaert), 1925, 19, 302
carbonic acid in, mode of combination of (Warburg), 1922, 16, 297; 275
chloride content of, effect of deproteinisation on (Mukai), 1921, 15, 519
circulating, protective colloid in (Pickering and de Souza), 1923, 17, 731
clotting of, in chickens (Thompson and Carr), 1923, 17, 373
cogulation of (Pickering and Hewitt), 1922, 16, 587
cogulation of, physico-chemical aspects of (Pickering and Hewitt), 1921, 15, 710
constituents, relation of, to deficient diet (Thompson and Carr), 1923, 17, 373
corpuscular volume in, measurement of the (Trevan), 1918, 12, 65
cyanate in (Gottlieb), 1926, 20, 1
determination, micro- of chloride in (Rehberg), 1926, 20, 483
determination, micro- of non-protein nitrogen of (Kennaway), 1921, 15, 510
determination of acetone in (Widmark), 1919, 13, 430
determination of ammonia and urea in (Murray), 1925, 19, 294
determination of calcium of (Ling and Bushill), 1922, 16, 403; (Stanford and Wheatley), 1925, 19, 710
determination of carbon monoxide in (Tervaert), 1925, 19, 300
determination of cholesterol of (Gardner and Fox), 1924, 18, 1061
determination of choline of (Sharpe), 1923, 17, 41
determination of cyanates of (Montgomery), 1925, 19, 71
determination of dextrose of (Montgomery), 1925, 19, 744
determination of fat of (Miroyl), 1925, 19, 840
Blood, determination of hydrogen ion concentration of, accuracy of Dale and Evans method for (Taylor), 1923, 17, 406
determination of hydrogen ion concentration of, comparison of methods for (Martin and Lepper), 1926, 20, 1073
determination of iron content of (Murray), 1924, 18, 852; (Fowweather), 1926, 20, 93
determination of lipin phosphorus of (Stanford and Wheatley), 1925, 19, 704
determination of non-protein-nitrogen of (Ponder), 1922, 16, 368
determination of phosphorus compounds of (Stanford and Wheatley), 1925, 19, 697, 704
determination of phosphorus, inorganic of (Stewart and Archbold), 1925, 19, 489; (Stanford and Wheatley), 1925, 19, 703
determination of phosphorus of (Martland and Robison), 1924, 18, 765; (Gaddum), 1926, 20, 1204
determination of quinine in (Acton and King), 1921, 15, 53
determination of sterols of (Gardner and Williams), 1921, 15, 373
determination of sugar in small quantities of (Tervaert), 1925, 19, 541
determination of sugar of (Calvert), 1923, 17, 117; 1924, 18, 839; (Stanford and Wheatley), 1924, 16, 22
determination of urea in, by micro-titration (Rehberg), 1925, 19, 278
determination of urea in small quantities of (Patterson), 1925, 19, 601
determination of volatile constituents of, with reference to the determination of alcohol (Southgate), 1924, 18, 101
dextrose distribution in (Irvine), 1926, 20, 616
dextrose in (Lund and Wolf), 1926, 20, 259
diabetic, proportion of acetoacetic acid and $\beta$-hydroxybutyric acid in (Kennaaway), 1918, 12, 125
distribution of phosphorus compounds of (Stanford and Wheatley), 1925, 19, 706
dog's, urea in, after ingestion of amino-acids (Luck and Seth), 1925, 19, 370
effect of administration of insulin on (Kay and Robison), 1924, 18, 1144
effect of diet on alcohol content of (Southgate), 1925, 19, 739
effect of glycolysis on $p_H$ of (Martin and Lepper), 1926, 20, 1072
fluidity and coagulation of (Pickering and de Souza), 1923, 17, 747
fluidity of normal circulating (Pickering and Hewitt), 1921, 15, 714
gastric venous, ammonia and urea content of (Luck and Seth), 1925, 19, 363
glycolysis in (Irving), 1926, 20, 613
horse, erythrocytes of, effect of work on number of (Neser), 1922, 16, 770
human, circulation of, accuracy of analyses of ethyl iodide vapour for measurements of (Henderson), 1926, 20, 845
human, determination of hydroquinine in (Acton and King), 1921, 15, 58
INDEX OF SUBJECTS

Blood, human, glycolysis and distribution of reducing sugar in (Dowds), 1926, 20, 1173 human, leucocytes of, activity of, during glycolysis (Dowds), 1926, 20, 1173 human, phosphorus partition in, effect of ammonium chloride on (Kay), 1924, 18, 1133 human, reducing substance in, nature of the (Cooper and Walker), 1921, 15, 415; 1922, 18, 455 hydrogen ion concentration of, effect of lead injections on (Cranor and Lewis), 1924, 18, 1362 hydrogen ion concentration of, in experimental tetany (Cruickshank), 1924, 18, 47, 60 hydrogen ion concentration of, in pathological conditions (Parsons and Poulton), 1923, 17, 341 hydrogen ion concentration of, in tetany (Cruickshank), 1923, 17, 27 hydrogen ion concentration of, of seborrhetic guinea-pigs (Lepper and Zilha), 1925, 19, 586 influence of temperature on pH of (Martin and Lepper), 1926, 20, 1071 irradiation of (Harris), 1926, 20, 275 laked and unlaked, autolysis of, changes in reducing sugar and inorganic phosphorus during (Martial, Hansman and Robison), 1924, 18, 1157 mammalian, glutathione in the corpuscles of (Holden), 1925, 19, 727 mammalian, occurrence of maltase in (Compton), 1921, 15, 681 of birds, influence of temperature on, in vitro (Pickering and Hewitt), 1921, 15, 714 of children, phosphorus, inorganic, content of (Anderson), 1923, 17, 43 of common lobster and edible crab, influence of pH on the dissociation curve of oxyhaemocyanin from (Stedman and Stedman), 1926, 20, 938, 949 of equines (Neser), 1922, 16, 770 of hippopotamus, cholesterol content of (Gardner), 1924, 18, 781 of human foetus, leucovires in (Orr), 1924, 18, 171 of normal males and cancer patients, hydrogen ion concentration of (Corran and Lewis), 1924, 18, 1358 of ruminants, phosphoric ester content of (Kay), 1925, 19, 447 of ruminants, phosphorus content of (Kay), 1925, 19, 447 of some decapod crustacea, dissociation curves of the oxyhaemocyanin in (Stedman and Stedman), 1925, 19, 544 phenolphthalein test for (Stammers), 1926, 20, 620 phosphate, action of bone enzyme on (Robison and Soames), 1925, 19, 157 phosphate content of, in acidosis (Martial), 1925, 19, 120 phosphate, inorganic, of, effect of fat-soluble factor in diet on (Robison and Soames), 1925, 19, 156 phosphate, inorganic, of, influence of sleep on (Havard and Reay), 1925, 19, 884 phosphate, inorganic, of, normal variations of (Havard and Reay), 1925, 19, 882 Blood, phosphate, inorganic, of, rise in, produced by CO2, acidosis (Havard and Reay), 1925, 19, 886 phosphate, organic, of, seasonal variation of (Havard and Reay), 1925, 19, 886 phosphoric ester in (Robison and Soames), 1925, 19, 156 phosphoric esterase of (Martial, Hansman and Robison), 1924, 18, 1152 phosphoric esterase of, at various hydrogen ion concentrations (Martial), 1925, 19, 117 phosphoric esterase of, location of (Martial, Hansman and Robison), 1924, 18, 1154 phosphoric esterase of, optimum pH for (Martial, Hansman and Robison), 1924, 18, 1153 phosphoric esters of (Goodwin and Robison), 1924, 18, 1101 phosphoric esters of, hydrolysis of (Martial), 1925, 19, 118 phosphorus, acid-soluble organic, of, action of kidney phosphatase on (Kay), 1926, 20, 803 phosphorus compounds of, distribution of (Stanford and Wheatley), 1925, 19, 706 phosphorus compounds of, effect of fatigue on distribution of (Cuthbertson), 1925, 19, 907 phosphorus compounds of, effect of insulin on distribution of (Kay and Robison), 1924, 18, 1139 phosphorus compounds of, organic, action of bone enzyme on (Kay and Robison), 1924, 18, 755 phosphorus compounds of, organic, action of muscle enzyme on (Kay and Robison), 1924, 18, 1139 phosphorus of, lecithin compounds of, effect of ammonium chloride acidosis on (Kay), 1924, 18, 1136 phosphorus, partition of (Cuthbertson), 1925, 19, 896 properties of reducing substance in (Cooper and Walker), 1921, 15, 416 rabbit's, urea in, after ingestion of amino-acids (Luck and Seth), 1925, 19, 368 rôle of, in removal of sugar after insulin (Hynd), 1925, 19, 1095 sheal, ammonia in (Luck and Seth), 1925, 19, 360 urea content of, effect of X-radiation on, of normal and immune rats (Dodd, Lawson and Mottam), 1925, 19, 750 urea, determination, micro-, of (Hindmarsh and Priestley), 1924, 18, 252; (Rehberg), 1925, 19, 278; (Murray), 1925, 19, 297; (Patterson), 1925, 19, 601 uric acid and creatinine content of, in vitamin B deficiency (Thompson and Carr), 1923, 17, 374 viscosity of, contributions of the plasma and of the corpuscular volume to the (Trevan), 1918, 12, 65, 67 whole, action of, on acids (Kennaway and McIntosh), 1922, 18, 380 whole, determination of calcium in (Alport), 1924, 18, 455
INDEX OF SUBJECTS

Blood, whole, of normal and insulin rabbits, reducing power of plasma and corpuscles after hydrolysis (Hynd), 1925, 19, 1098
See also Plasma and Serum

Blood-albumin, influence of diet containing, on mammary secretion (Hartwell), 1921, 15, 565

Blood-cholesterol, influence of glucose and insulin on (White), 1925, 19, 924

Blood-corpuscles and serum, factors determining partition of permeating ions between (Warburg), 1922, 16, 307

calcium content of, in tetany (Cruickshank), 1923, 17, 16

fowl’s, resistance of, to haemolysis by quinine salts (Brahmachari and Sen), 1921, 15, 464

irradiation of (Harris), 1926, 20, 277

mammalian, presence of glutathione in (Holden), 1925, 19, 727

of rabbit, degradation of glucose by (Irving), 1926, 20, 1320

phosphoric esters in (Kay and Robison), 1924, 18, 765

reaction of (Warburg), 1922, 16, 222

red, contents of (Gough), 1924, 18, 205

ered, effect of the spleen on (Bolt and Heeres), 1922, 16, 754

red haemolysis of, by soaps (Ponder), 1924, 18, 845

red, nature of the (Gough), 1924, 18, 202

red, of different animals, resistance of, to lysis (Ponder), 1926, 20, 509

red, of horse, effect of work on number of (Neser), 1922, 16, 779

red, permeability to amino-acids (Kozawa and Miyamoto), 1921, 15, 167

red, relation between number and size of, and opacity of their suspensions (Holker), 1921, 15, 226

red, resistance of newly formed, to haemolysis by water (Bramachari and Sen), 1921, 15, 463

red, resistance of, to haemolysis, effect of haemorrhage on (Brahmachari and Sen), 1921, 15, 465

red, role of, in mechanism of action of insulin (Hynd), 1926, 19, 1095

red, shape of (Gough), 1924, 18, 211

red, surface film of (Gough), 1924, 18, 208

red, variations in resistance to haemolysis of (Pickering and Taylor), 1923, 17, 918

reducing power of, after hydrolysis, in normal and insulin rabbits (Hynd), 1925, 19, 1097

Blood-dialysates, effect of acid and alkali on rotatory and reducing powers of (Anderson and Carruthers), 1926, 20, 559, 563

Blood-enzymes (Compton), 1922, 16, 460; 1923, 17, 536; 1924, 18, 173

Blood-fat of dog, in pregnancy (White), 1925, 19, 921

of dog, insulin and (White), 1925, 19, 921

of dog, normal variations in (White), 1925, 19, 921

Blood-filtrates, changes in reducing power of, after acid hydrolysis (Cooper and Walker), 1921, 15, 418

relation between optical activity and reducing power of (Anderson and Carruthers), 1926, 20, 566

Blood-gas apparatus, Barcroft’s, theory of (Parsone), 1921, 15, 202

Blood-meal, nitrogen and mineral content of (Richards, Godden and Husband), 1924, 18, 654

Blood-pigment, changes in, effected by pneumococcus (McLeod and Gordon), 1922, 16, 505

stamnos compound of haematoporphyrin as a test for (Milroy), 1918, 12, 327

Blood-pigments, catalytic action on autoxidation of linseed oil (Robinson), 1924, 18, 555

nomenclature of (Halliburton and Rosenheim), 1919, 13, 195

reduction of, by sodium hydrosulphite (Halliburton and Rosenheim), 1919, 13, 197

Blood-plasma, action of, on acids (Kennaway and McIntosh), 1922, 16, 380

cow’s, calcium content of, effect of administration of various salts on (Mattick and Wright), 1925, 19, 915

phosphoric esters in (Martland and Robison), 1926, 20, 847

reducing power of, after hydrolysis, in normal and insulin rabbits (Hynd), 1925, 19, 1097

Blood-platelets and coagulation of blood (Pickering and Hewitt), 1922, 16, 591

Blood-sera of normal animals, antitryptic action of (Young), 1918, 12, 507

Blood-sugar, determination of (de Wesselow), 1919, 13, 148; (Ponder and Howie), 1921, 15, 171; (Cooper and Walker), 1922, 18, 456; (Calvert), 1923, 17, 117; (Stanford and Wheatley), 1924, 18, 22; (Tervaert), 1925, 19, 541

determination of, accuracy of, affected by some interfering substance (de Wesselow), 1919, 13, 150

determination of, colorimetric (Paton), 1924, 18, 965

determination of, in large and small quantities (MacLean), 1919, 13, 135, 141, 145

determination of, Lewis-Benedict method for, limitations of (Guy), 1921, 15, 575

determination of, modifications of MacLean’s method for (Cooper and Walker), 1921, 15, 415

effect of dihydroxyacetone on (Kermack, Lambie and Slater), 1926, 20, 491

effect of fatigue on (Cooper and Walker), 1922, 16, 457
INDEX OF SUBJECTS

Blood-sugar, effect of testicular extracts on (Korenchevsky and Carr), 1925, 19, 774
fate of, after insulin injection in normal animals (Hynd), 1925, 19, 1065
in diabetes after dihydroxyacetone ingestion (Kermack, Lambie and Slater), 1926, 20, 492
in diabetes, effect of insulin on (Lawn and Wolf), 1925, 19, 124
MacLean's method for determination of, effect of excess of sodium carbonate on (Hynd), 1925, 19, 1096
nature of (van Crevel), 1923, 17, 860;
(Lund and Wolf), 1926, 20, 259
reduction of, by insulin, inhibited by ovarian extract (Dickens, Dodds and Wright), 1925, 19, 859
Blood-sugar curve, abnormality in, following carbohydrate starvation (Goldblatt), 1925, 19, 952
Blood-sugar level, lactic acid in brain and (Holmes and Holmes), 1925, 19, 836
Blood-sugar levels of rats fed with complete diets and diets deficient in vitamin B (Eggleton and Gross), 1925, 19, 633
Blood-ultra-filtrates, optical rotation and reducing power of (Anderson and Carruthers), 1926, 20, 557
Blood-viscosity determinations, viscosimeters for (Trevan), 1918, 12, 60
Blood-volume in anaemic rats (Scott and Barcroft), 1924, 18, 1
Boiling point, melting point, osmotic pressure and vapour pressure, experimental verification of the theory of the relation of (Haldane), 1918, 12, 492–8
Boiling points of cane sugar solutions, elevations of (Haldane), 1918, 12, 496
of solutions (Haldane), 1918, 12, 490–1
Bombyx mori, physiology of (Jameson and Atkins), 1921, 15, 209
Bone, calcification of, relation of quantity of fat-soluble factor in diet to degree of (Goldblatt), 1923, 17, 298
calcium content and development of, in vitamin A-deficient rats, influence of irradiation on (Goldblatt and Soames), 1923, 17, 626
calcium-phosphorus ratio of, on various diets (Chick, Korenchevsky and Roscoe), 1926, 20, 625
decalcification of (Manning and Schrayer), 1921, 15, 523
decalcified, rate of extraction of gelatin from (Manning and Schrayer), 1921, 15, 524
ground, adsorption of iodine and diazine green by (Manning and Schrayer), 1921, 15, 629
hexosephosphoric ester-hydrolysing enzyme from (Robison), 1923, 17, 287
histology of, with graded fat-soluble vitamin diets (Goldblatt), 1923, 17, 307
normal and rachitic, composition of (Chick, Korenchevsky and Roscoe), 1926, 20, 626, 629
of kittens, effect of diet deficient in animal fat on (Tozer), 1921, 15, 28
organic residue of (Chick, Korenchevsky and Roscoe), 1926, 20, 627
Bone, ossification of, theory of (Robison), 1923, 17, 291
phosphoric esterase in early stages of development of (Martland and Robison), 1924, 18, 1354
Bone-calcium, determination of (Chick, Korenchevsky and Roscoe), 1926, 20, 623
Bone-enzyme, action of, on organic phosphorus compounds in blood (Kay and Robison), 1924, 18, 755
possible significance of, in ossification (Robison and Soames), 1924, 18, 740
See also Phosphoric esterase and Esterase, phosphoric Brain, glutathione content of (Holmes), 1926, 20, 813
lactic acid in, effect of blood-sugar level and insulin on (Holmes and Holmes), 1925, 19, 836
lactic acid, resting values of, in normal and insulin rabbits (Holmes and Holmes), 1925, 19, 498
ox., methylation of the cerebrosides of (Pridy and Humphreys), 1924, 18, 661
ox., sugar residue of the cerebrosides of (Pridy and Humphreys), 1926, 20, 525
reducing substances of, in normal and insulin rabbits (Holmes and Holmes), 1925, 19, 493
Brain-extracts, reducing substances in (Holmes and Holmes), 1926, 20, 505, 597
Brain-metabolism (Holmes and Holmes), 1925, 19, 492, 836; 1926, 20, 1196
Bran, wheat, as a source of vitamins A and B (Stammers), 1921, 15, 489
Brassica campestris, growth-promoting properties of (Hume), 1921, 15, 45
Brassica oleracea, hydrogen ion concentration of leaf sap of (Chibnall and Grover), 1926, 20, 112
Brassica rapa, globulin of, action of plant proteases on (Blagoveshenski), 1924, 18, 796
protease of (Blagoveshenski), 1924, 18, 796
Brassicasterol in rape oil and cabbage seeds (Ellis), 1918, 12, 157
Bread, brown and white, in diet of rat (Hartwell), 1924, 18, 1323
effect of diet of, on mammary secretion (Hartwell), 1921, 15, 146, 150
effect of digestion on fat content of (Cormack), 1926, 20, 1052
fat content of (Cormack), 1926, 20, 1052
white, vitamin B content of (Hartwell) 1924, 18, 120
Bread protein, biological value of (Hindhede) 1926, 20, 330
Briggs method of estimating blood-phosphorus note on the (Martland and Robison), 1924, 18, 765
Brinjal, antiscorbutic and antineuritic properties of (Shorten and Ray), 1921, 15, 276, 282
Bromoanisole, o- and p-, influence of, on nitrogen and sulphur excretion (Coombs and Hele), 1926, 20, 610
Bromobenzene, effect of, on sulphur metabolism of the dog (Hele), 1924, 18, 586
Bromoxylenol blue (Cohen), 1923, 17, 535
Buffer solutions, action of salts and non-electrolytes upon (Haynes), 1921, 15, 440
effect of concentration on $p_H$ of (Haynes), 1921, 15, 448
for alkaline range of $p_H$ (Atkins and Pantin), 1926, 20, 102
Buffer values of muscle-juice (Andrews, Beattie and Milroy), 1924, 18, 993
Burette, micro-, use of micrometer syringe as (Trevan), 1925, 19, 1113
Buffer, antirachitic value of (Chick and Roseoe), 1926, 20, 643, 646, 649
determination of vitamin A in (Drummond, Coward and Watson), 1921, 15, 540
effect of heat and oxygen on the nutritive value of (Drummond and Coward), 1920, 14, 734
. effect of, on mammary secretion (Hartwell), 1921, 15, 148, 150
factors influencing value of, as source of vitamin A (Drummond, Croward and Watson), 1921, 15, 540
influence of diet of cow on vitamin A content of (Drummond, Croward and Watson), 1921, 15, 548
influence of preservation, racemide and renovation on vitamin A potency of (Drummond, Coward and Watson), 1921, 15, 550
potency of fat-soluble factor in (Zilva and Miura), 1921, 15, 658
vitamin A in, causes of loss of (Drummond, Coward and Watson), 1921, 15, 546
vitamin content of, effect of heat and aeration on (Hopkins), 1920, 14, 726
Butter-fat, from "first runnings" milk, analysis of (Crowther and Hynd), 1917, 11, 154
methyl esters from, preparation and fractional distillation of (Crowther and Hynd), 1917, 11, 147
vitamin A and pigment contents of (Drummond and Croward), 1920, 14, 668
Butter-making, influence of, on vitamin A content of butter (Drummond, Croward and Watson), 1921, 15, 544
Butterflies' wings, pigments of (Thomson), 1926, 20, 73, 1026
n-Butyl alcohol: acetone fermentation, products of (Reilly, Hickenbottom, Henley and Thaysen), 1920, 14, 229
iso-Butylanine phosphoglucomstate (Drummond), 1918, 12, 15
Butyrates, alkal, oxidation of, by hydrogen peroxide (Cahen and Hurtley), 1917, 11, 164
Butyric acid, activation of substituted (Quastel) 1926, 20, 187
in acetone: n-butyl alcohol fermentation (Reilly, Hickenbottom, Henley and Thaysen), 1920, 14, 229
Butyrohydroxamic acid, preparation of (Lewis), 1926, 20, 1358
Cabbage, antineuritic properties of (Shorten and Ray), 1921, 15, 253
antiscorbutic value of (Shorten and Ray), 1921, 15, 278
antiscorbutic value of, influence of exposure to temperatures above 100° on (Delf), 1918 12, 431-7, 441
Cabbage, cooked, antiscorbutic value of (Delf), 1918, 12, 424-9, 440-2
cooking of, study of different methods of (Masters and Garbutt), 1920, 14, 75
cytotrans and cytopietic acid in (Clayson, Norris and Schryver), 1921, 15, 645
dried and fresh, antiscorbutic value of (Chick, Hume and Skelton), 1918, 12, 147
dried, antiscorbutic and growth-promoting properties of (Delf and Skelton), 1918, 12, 448
dried, antiscorbutic value of, effect of time of storage and dryness of atmosphere on (Delf and Skelton), 1918, 12, 449-51, 455
dried commercially, antiscorbutic factor and fat-soluble accessory growth factor of, effect of drying and storage on (Delf and Skelton), 1918, 12, 455-62
dried, unboiled and boiled, antiscorbutic value of (Delf and Skelton), 1918, 12, 451-5
fat-soluble factor of, extraction of by solvents (Zilva), 1920, 14, 494
fat-soluble factor of, influence of heat on (Delf), 1918, 12, 435, 437-42
growth-promoting properties of (Hume), 1921, 15, 33, 42
leaf proteins of (Chibnall and Schryver), 1921, 15, 64
phytosterol, search for, in (Ellis), 1918, 12, 154
raw and heated, antiscorbutic and growth-promoting properties of (Delf), 1918, 12, 416
raw fresh and boiled dried, comparative antiscorbutic value of (Delf and Skelton), 1918, 12, 455
Cabbage-juice, effect of heat on antiscorbutic factor of (Delf), 1920, 14, 214
Cabbage-leaves, composition of faeces of rabbits fed on (Ellis), 1918, 12, 156
new carbohydrate from (Buston and Schryver), 1923, 17, 470
white and green, vitamin A in (Coward and Drummond), 1921, 15, 533, 538
Cabbage-seed, composition of (Ellis), 1918, 12, 157
phytosterol of (Ellis), 1918, 12, 154
vitamin A in (Coward and Drummond), 1921, 15, 531, 538
Cabbage-shoots, etiolated, vitamin A in (Coward and Drummond), 1921, 15, 532, 538
Cabbage-stalks, composition of faeces of rabbits fed on (Ellis), 1918, 12, 156
Cadaverine phosphoglucomstate (Drummond), 1918, 12, 15
Caffeine, action of, on lactic acid production in muscle (Evans), 1926, 20, 893, 899
and histamine, antagonistic effect of, on muscle (Evans), 1926, 20, 900
influence of, on oxygen utilisation by muscle (Evans), 1926, 20, 897
Calcification, dental, effect of vitamin D on (Mellanby and Killick), 1926, 20, 905
effect of irradiation of environment on (Hume and Smith), 1926, 20, 357
effect of lack of fat-soluble vitamins on (Chick), 1926, 20, 126
in rabbits, effect of irradiation on (Mellanby and Killick), 1926, 20, 922
Calcification in rabbits, effect of irradiation of food on (Mellanby and Killick), 1926, 20, 922
Calcium in rachitic animals (Robison and Soames), 1924, 18, 746
Calcium in rats on deficient diets, compared with normal controls (Chick, Korenchevsky and Roscoe), 1926, 20, 622
Calcium in rats receiving milk of varying antirachitic and growth-promoting powers (Luce), 1924, 18, 724
Calcium in vitro (Shipley, Kramer and Howland), 1926, 20, 379
Calcium of skeleton, relative values for, of orange juice and decitrated lemon juice and of yeast and marmite (Korenchevsky and Carr), 1924, 18, 1319
Calcium of teeth, and caries, relation between (Mellanby and Killick), 1926, 20, 903
Calcium and complement action (Gordon, Whitehead and Wormall), 1926, 20, 1036
Calcium and sodium ions, antagonism between, with reference to growth (Cramer), 1918, 12, 211, 215
Calcium and sodium ions, water content of tumour cells treated with (Cramer), 1924, 18, 925
Balance, of atrophic infants, relation of, to fat metabolism (Hickmans), 1924, 18, 925
Balance, of growing pig (Richards, Godden and Husband), 1924, 18, 656
Colloidal and ionic variations in, in experimental tetany (Cruickshank), 1923, 17, 13
deposition in bone of, effect of parathyroid feeding on (Woodman), 1925, 19, 599
determination of diffusible and colloidal, in serum (Cruickshank), 1923, 17, 19
determination of, in blood (Ling and Bushill), 1922, 16, 403; (Alport), 1924, 18, 455;
(Stanford and Wheatley), 1925, 19, 710
determination of, in bone (Chick, Korenchevsky and Roscoe), 1926, 20, 623
determination of, in serum (Trevan and Bainbridge), 1926, 20, 423
determination of small quantities of, by alizarinate (Laidlaw and Payne), 1922, 16, 494
distribution of, in plasma and cells in experimental tetany (Cruickshank), 1923, 17, 13
distribution of, in serum-proteins (Gordon, Whitehead and Wormall), 1926, 20, 1037
excretion of, effect of biliary exclusion on (Telfer), 1921, 15, 348
excretion of, effect of free fatty acids in intestinal contents on (Telfer), 1921, 15, 347
in blood, in vomiting of pregnancy (Widdows), 1924, 18, 567
in body fluids (Marrack and Thacker), 1926, 20, 580
in foetuses, influence of diet of parent on (Korenchevsky and Carr), 1923, 17, 597
in food, changes undergone in gut by (Telfer), 1921, 15, 343
in mother's diet during pregnancy, effect on young of an excessive amount of (Korenchevsky and Carr), 1925, 19, 112
Calcium in mother's diet, effect of excess of, on young (Korenchevsky and Carr), 1924, 18, 1313
in parent's diet, effect of, on young (Korenchevsky and Carr), 1925, 19, 113
in rats receiving a daily ration of milk in their diet, influence of diet and management of the cow upon the deposition of (Boas and Chick), 1924, 18, 433
in rats, young growing, determination of retention of (Boas), 1924, 18, 425
in serum, action of acids on (Gordon, Whitehead and Wormall), 1926, 20, 1037
in serum, effect of uric acid on determination of (Coates and Raiment), 1924, 18, 923
partition of, between protein and solutions (Marrack and Thacker), 1926, 20, 583
Calcium assimilation in growing pig, influence of oils on (Husband, Godden and Richards), 1923, 17, 707
in the growing pig, influence of potassium iodide on (Kelly), 1925, 19, 559
Calcium carbonate, effect of, on rate of biological oxidation of sewage (Cooper and Cooper), 1918, 12, 280
solubility of, in presence of other salts (Marrack and Thacker), 1926, 20, 589
solubility product of (Marrack and Thacker), 1926, 20, 588
Calcium chloride, effect of injection of, on calcium content of human serum (Stewart and Haldane), 1924, 18, 855
effect of, on growth of transplanted tumour in mice (Cramer), 1918, 12, 210
Calcium content of blood during pregnancy (Widdows), 1923, 17, 14; 1924, 18, 555
of blood-plasma of cow, effect of administration of various salts on (Mattick and Wright), 1925, 19, 915
of bone, relation to fat-soluble vitamin in diet (Goldblatt), 1925, 17, 310
of bones of rats receiving milk of varying antirachitic and growth-promoting powers (Luce), 1924, 18, 726
of bones of vitamin A-deficient rats, influence of irradiation on (Goldblatt and Soames), 1923, 17, 627
of human milk in normal and rachitic families (Telfer), 1924, 18, 810
of human serum and urine, experimental alterations of (Stewart and Haldane), 1924, 18, 855
of milk, effect of heat on (Magee and Harvey), 1926, 20, 875
of milk of varying antirachitic and growth-promoting powers (Luce), 1924, 18, 729
of serum in cases of gout (Coates and Raiment), 1924, 18, 921
Calcium glycerophosphate, injection of, effect of, on growth and skeleton of rats, in deficiency of fat-soluble factor (Korenchevsky and Carr), 1925, 19, 105
INDEX OF SUBJECTS

Carbohydrates, protein-sparing action of, in bacterial metabolism (Raistrick and Clark), 1921, 15, 79
Carbon content of solutions, determination of (Nechez), 1923, 17, 431
Carbon dioxide, absorption coefficients of (Warburg), 1922, 16, 158
determination of, accurate, in gas mixtures (Krogh), 1920, 14, 273
determination of, in sea water (Bruce), 1926, 20, 835
determination of, micro- (Schmit-Jensen), 1920, 14, 4
determination of, Tashiro's method for (Adam), 1921, 15, 381
effect of, on metabolism of higher plants (Thomas), 1925, 19, 927
effect of, on yeast growth (Slater), 1918, 12, 252, 256–7
effect of presence of, in air, on calcium content of human serum (Stewart and Haldane), 1924, 18, 655
hydration of (Warburg), 1922, 16, 169
Carbon dioxide tension, alveolar, in experimental tetany (Cruickshank), 1924, 18, 47
Carbon monoxide, determination of, in blood (Tervaert), 1925, 19, 300
determination of, micro- (Schmit-Jensen), 1920, 14, 4; (Tervaert), 1925, 19, 300
extraction of, from blood (Tervaert), 1925, 19, 302
production of, from urea (Hurtley), 1921, 15, 11
Carbonic acid, dissociation of (Warburg), 1922, 16, 169, 233
in blood and salt solutions (Warburg), 1922, 16, 153
in blood, mode of combination of (Warburg), 1922, 16, 261, 275
Carbonylase, effect of salts on action of (Harden and Henley), 1921, 15, 313
Carcinosarcoma, effect of copper compounds on (Hieger), 1926, 20, 253
glutathione content of (Holmes), 1926, 20, 813
transplantable, of mouse, effect of sodium and calcium ions on growth of (Cramer), 1918, 12, 210
Carica papaya, pigment and vitamins of (Miller), 1920, 19, 515
Caries, dental, and calcification of teeth, relation between (Mellanby and Killick), 1926, 20, 903
effect of diet on (Mellanby and Killick), 1926, 20, 903
Carniscurra, carnosine in (Clifford), 1921, 15, 733
Carnosine, adsorption of, by filter paper (Hunter), 1921, 15, 692
catalytic destruction of, in vitro (Clifford), 1922, 16, 792
constitution and synthesis of (Barger and Tutin), 1918, 12, 402, 404
destruction of, by thermostable catalyst in animal tissues (Clifford), 1923, 17, 549
determination of (Clifford), 1921, 15, 400, 725, 726; (Mitsuda), 1923, 17, 631
determination of, effect of protein precipitants on (Clifford), 1921, 15, 402
Carnosine, determination of, in muscle extract (Hunter), 1921, 15, 689; 1922, 16, 640
distribution of, in animal kingdom (Clifford), 1921, 15, 725
distribution of, in cat muscle (Mitsuda), 1923, 17, 630
effect of heat on (Hunter), 1921, 15, 693
in cat muscle (Hunter), 1924, 18, 408; 1925, 19, 35
in skeletal and cardiac muscle (Clifford), 1921, 15, 728
in tumour extracts (Drummond), 1917, 11, 249
of muscle and iminazole excretion (Hunter), 1928, 19, 34
preparation of (Hunter), 1921, 15, 689
Carnosine content of muscle (Clifford), 1921, 15, 405; (Hunter), 1921, 15, 694
of muscle, effect of cold storage on (Clifford), 1922, 16, 341; 1925, 19, 1000
of muscle, influence of putrefactive changes on (Clifford), 1921, 15, 727
of muscle of various animals (Hunter), 1922, 16, 653
Carnosine copper salt, isolation and analysis of (Barger and Tutin), 1918, 12, 403, 405
Carnosine phosphorungstate (Drummond), 1918, 12, 20
Carotene, effect of, on growth of rat (Stephenson), 1920, 14, 717
in Carica papaya (Miller), 1926, 20, 518
in etiolated wheat seedlings (Coward), 1924, 18, 121
presence of traces of, in yeast (Reader), 1925, 19, 1045
separation of, from lycopin (Coward), 1924, 18, 1119
Carrageen, constitution of cell wall of (Russell-Wells), 1922, 16, 578
occurrence of ethereal sulphate and phosphate in (Haas and Russell-Wells), 1923, 17, 698
occurrence of ethereal sulphate in (Haas), 1921, 15, 469, 471, 474
vitamin A in (Coward and Drummond), 1921, 15, 535, 538
Carrot, antiseptic properties of the (Shorten and Ray), 1921, 15, 282
antiseptic properties of the (Shorten and Ray), 1921, 15, 275
fat-soluble factor of, extraction of by solvents (Zilva), 1920, 14, 494
pectin from (Tutin), 1921, 15, 497
seed, shoots and tops, vitamin A in (Coward and Drummond), 1921, 15, 531, 538
Cartilage, ossifying, the phosphoric ester of (Robison and Soames), 1924, 18, 740;
(Martland and Robison), 1924, 18, 1536
Caselnova, racemisation curve of (Wright), 1924, 18, 246
unpurified, fat-soluble organic factor in (Goldblatt and Soames), 1923, 17, 623
Caseinogen, action of heat and of rennet on (Wright), 1924, 18, 245
action of hypochlorite on (Wright), 1926, 20, 525
action of kidney phosphatase on (Kay), 1926, 20, 802
INDEX OF SUBJECTS

Caselnogen, action of sulphuric acid on (Rimington and Kay), 1926, 20, 787
action of trypsin on (Rimington and Kay), 1926, 20, 781
amid nitrogen of (Luck), 1924, 18, 679
amino-acid composition of (Foreman), 1919, 13, 396
bacterial production of colour changes upon (Cornish and Williams), 1917, 11, 180
composition of (Foreman), 1919, 13, 378
deposphorised (Rimington and Kay), 1926, 20, 786
determination of tryptophan content of (Onslow), 1924, 18, 63
digestion of, by trypsin (Edie), 1921, 15, 498
digestion of, by trypsin, effect of alcohol on (Edie), 1919, 13, 219
digestion of, by trypsin, effect of hydrochloric acid on (Edie), 1921, 15, 501
effect of heating, on value in diet (Chick), 1926, 20, 126
fatty compound isolated from (Ken and Funk), 1924, 18, 1238
hydrolysis of, by baryta (Onslow), 1921, 15, 385
in basal diets of rats (Bond), 1922, 18, 479
in milk, variations in content of (Sheehy), 1921, 15, 708
interaction of, with quinone (Morgan and Cooper), 1921, 15, 589
liberation of ammonia from, by sodium hydroxide (Rimington and Kay), 1926, 20, 785
liberation of phosphorus from, by enzymes and other agents (Rimington and Kay), 1926, 20, 777
maximum enzymic hydrolysis of (Onslow), 1921, 15, 393
molecular weight of, determination of, by Barger's method (Yamakami), 1920, 14, 522
nitrogen distribution in (Plimmer and Rosedale), 1925, 19, 1010, 1012
phosphoric group, significance of (Rimington and Kay), 1926, 20, 777
phosphorus content of, variations in (Sheehy), 1921, 15, 708
phosphorus of, action of enzymes on (Rimington and Kay), 1926, 20, 780
purification of, for feeding experiments (Zilva), 1919, 13, 176
reemisisation curves of (Wright), 1924, 18, 246
removal of vitamin A from (Coward and Drummond), 1921, 15, 530
sorption of irritant poisons by (Seth), 1923, 17, 615
tryptin-stable residue of (Luck), 1924, 18, 679
tryptin-stable residue of, production of ammonia from, by various tissues (Luck), 1924, 18, 822
trypic digest of, fractionation of phosphorus from (Whitehead), 1926, 20, 1147
trypic digest of, growth of Streptococcus on fractions of (Whitehead), 1924, 18, 829
analyses of (Whitehead), 1923, 17, 743
Caselnogen broth, heat stability of growth substances in (Whitehead), 1923, 17, 743
Caselnogen dietary effect of, on fur of rats (Hartwell), 1925, 19, 77
Caselnogen hydrolysis, separation of products of (Buston and Schryver), 1921, 15, 639
Castor oil, vitamin A deficiency of (Delf), 1924, 18, 94
Cat, glycogen content of brain of (Holmes and Holmes), 1926, 20, 1198
maltase in blood of (Compton), 1921, 15, 683
Catalase, effect of, on oxidation of hypoxanthine by xanthine oxidase (Dixon), 1925, 19, 510
effect of, on oxidation of nitrites (Thurlow), 1925, 19, 181
effect of, on oxygen uptake of bacteria not possessing catalase (Callow), 1924, 18, 514
functions of (Dixon), 1925, 19, 507
of silkworm (Jameson and Atkins), 1921, 15, 212
production of, by bacteria (McLeod and Gordon), 1922, 16, 504
Catalpa bignonioides, Pn of the leaf-sap of (Chibnall and Grover), 1926, 20, 112
Catechol, action of glutathione on (Handovsky), 1926, 20, 1120
action of oxidase on (Onslow and Robinson), 1926, 20, 1139
addition compound of, with diethylamine (McCane), 1925, 19, 1030
autoxidation of (Onslow and Robinson), 1926, 20, 1142
oxidation of, in presence of hydrogen acceptors (Onslow and Robinson), 1926, 20, 1143
relation of, to plant oxidase system (Galagher), 1923, 17, 518
Catechol derivatives, catalysis of autoxidation of, by plant enzymes (Onslow), 1924, 18, 549
presence of, in oxidase systems of higher plants (Robinson), 1924, 18, 543
Catechol grouping, formation of peroxides of, in plants (Onslow), 1920, 14, 533, 541
Catechol-oxygenase system, hydrogen peroxide formation in (Onslow and Robinson), 1926, 20, 1143
Catechol substances in higher plants (Onslow), 1921, 15, 111
Cations, specific function of certain, in alcoholic fermentation (Harden), 1917, 11, 64
Cell, autoxidisable constituent of (Hopkins), 1921, 15, 286
reduction potential of (Dixon), 1926, 20, 715
theory of equilibrium in (Haynes), 1921, 15, 457
Cell membranes, lecithin and cholesterol in relation to physical nature of (Corran and Lewis), 1924, 18, 1364
Cell wall, constituents of, isolation and properties of (Mehta), 1925, 19, 980
histology of polysaccharides and aromatic constituents of (Mehta), 1925, 19, 979
of plants, chemistry of (Clayson, Norris and Schryver), 1921, 15, 643
INDEX OF SUBJECTS

Cells, animal and vegetable, inorganic iron in (Jones), 1920, 14, 656

Cellular multiplication (Robertson), 1921, 15, 385, 612

Cellulose, action of B. subtilis and B. mesentericus on (Thaysen and Bunker), 1926, 20, 692

as component of lignocellulose (Mehta), 1925, 19, 973

Cellulose-decomposing bacteria, rate of destruction of artificial silks by (Thaysen and Bunker), 1925, 19, 1089

Cellulose fibres, treatment of, with carbon disulphide and alkali (Thaysen and Bunker), 1924, 18, 136

Celluloses, in cell wall (Mehta), 1925, 19, 980

Ceramium rubrum, constituents of (Russell-Wells), 1922, 16, 585

etheral sulphates of (Haas and Russell-Wells), 1923, 17, 701

Cerocebus fuliginosus, antiscorbutic value of milk for (Hume), 1921, 15, 164

Cereals, fat content of (Cormack), 1926, 20, 1052

Cerebrosides of ox brain, methylation of (Pryde and Humphreys), 1924, 18, 661; 1926, 20, 827

of ox brain, sugar residue of (Pryde and Humphreys), 1926, 20, 825

structure of galactose of (Pryde and Humphreys), 1926, 20, 826

Cerebrospinal fluid, determination of phosphorus of (Stanford and Wheatley), 1925, 19, 708

diastase in (Cohen), 1925, 19, 290

precipitation of colloidal gum benzoin by (Wright and Kermack), 1923, 17, 658

urea in (Hurtley), 1921, 15, 11

Cerema, vitamin B value of, as compared with marmite (Plimmer and Rosedale), 1923, 17, 774

Cerotic acid, cholesteryl ester of, preparation of (Gardner and Fox), 1924, 18, 1005

Ceryl cerotate, in Artemisia species (Goodson), 1922, 16, 489–92

Cetraria islandica, ethereal sulphate in (Haas and Russell-Wells), 1923, 17, 705

Cetyl alcohol in unsaponifiable matter of human faeces (Gardner), 1921, 15, 253, 257, 292, 262

Chlorella, enzymes in alimentary canal of (Pлимmer and Rosedale), 1922, 16, 23

rearimg of, on intensive system (Pлимmer and Rosedale), 1922, 17, 772, 757, 794

vitamin requirements of (Pлимmer and Rosedale), 1922, 16, 11

Chloramine-T, oxidation of amino-acids with (Dakin), 1917, 11, 79; 1918, 12, 312

Chlorates, action of bacteria, resting on (Quastel, Stephenson and Whetham), 1925, 19, 307

activation of, by B. prodigiosus and B. proteus (Quastel and Wooldridge), 1925, 19, 657

Chlorohydric acid, in plasma after its ingestion (Rehberg), 1926, 20, 474

site of reabsorption of, in kidney (Rehberg), 1929, 20, 478

Chlorides, toxic effect of, on B. coli (Quastel, Stephenson and Whetham), 1925, 19, 315

Chloroacetanilides, o-, m- and p-, effect of, on nitrogen and sulphur excretion (Coombs and Hele), 1920, 20, 609, 611

m-Chloroanisole, effect of, on nitrogen and sulphur excretion (Coombs and Hele), 1926, 20, 610

Chlorobenzene, effect of, on nitrogen and sulphur excretion (Callow and Hele), 1926, 20, 600, 602

effect of, on sulphur metabolism of the dog (Hele), 1924, 18, 586

o-Chlorophenol-indophenol, electrode potentials of (Kodama), 1926, 20, 1101

Chloroform, o-, m- and p-, effect of, on nitrogen and sulphur excretion (Coombs and Hele), 1926, 20, 610

Chlorophyll, effect of, on oxidation of plasma (Harris), 1926, 20, 282

o-Chlorotoluene, effect of, on nitrogen and sulphur excretion (Callow and Hele), 1926, 20, 601, 603

Cholate acid, action of ultra-violet light on (Rosenheim and Webster), 1926, 20, 543

digitation, physiological action of (Ransom), 1922, 16, 672

inhibiting effect of, on hepatic esterase (Wishart), 1920, 14, 406

Cholic acid in a human enterolith (Raper), 1921, 15, 49

β-Cholestanol (Ellis and Gardner), 1918, 12, 72

digitation, physiological action of (Ransom), 1922, 16, 670, 673

coumar reactions of (Gardner and Williams), 1921, 15, 371

esters of, preparation and properties of (Ellis and Gardner), 1918, 12, 75

in unsaponifiable matter of human faeces (Gardner), 1921, 15, 249, 251, 255, 257, 262

Cholesterole, action of B. mucilaginosus, of Cerebrotides of brain, of, analysis of (Onslow), 1921, 15, 114

Chickens, flesh of, analysis of protein of (Rosedale), 1922, 16, 28, 29

Chickens and other birds, vitamin B and C requirements of (Plimmer and Rosedale), 1923, 17, 772, 757, 794

effect of “good” protein on (Plimmer and Rosedale), 1922, 16, 19

Cheilosia, carnosine in (Clifford), 1921, 15, 731

Cherry, oxidising enzymes of (Onslow), 1921, 15, 114

Cheese, amylase in (Sato), 1920, 14, 120

Stilton, colour changes produced by bacteria isolated from (Cornish and Williams), 1917, 11, 130

Chelonia, carnosine in (Clifford), 1921, 15, 731

Chitin, action of, on marmite (Plimmer and Rosedale), 1922, 16, 29, 585

Chitosan, properties of (Rosedale), 1922, 16, 29, 585

Cholesterol, vitamins in, of (Bowman), 1922, 16, 610

Cholesterol, in animal and vegetable, inorganic iron in (Jones), 1920, 14, 656

Chlorogenic acid, reabsorption of, in plasma (Rehberg), 1926, 20, 474

Chlorophyll, effect of, on oxidation of plasma (Harris), 1926, 20, 282

Chlorotoluene, effect of, on nitrogen and sulphur excretion (Callow and Hele), 1926, 20, 601, 603

Cholate acid, action of ultra-violet light on (Rosenheim and Webster), 1926, 20, 543

digitation, physiological action of (Ransom), 1922, 16, 672

inhibiting effect of, on hepatic esterase (Wishart), 1920, 14, 406

Cholic acid in a human enterolith (Raper), 1921, 15, 49

β-Cholestanol (Ellis and Gardner), 1918, 12, 72

digitation, physiological action of (Ransom), 1922, 16, 670, 673

coumar reactions of (Gardner and Williams), 1921, 15, 371

esters of, preparation and properties of (Ellis and Gardner), 1918, 12, 75

in unsaponifiable matter of human faeces (Gardner), 1921, 15, 249, 251, 255, 257, 262
INDEX OF SUBJECTS

β-Cholestanol, oxidation of (Ellis and Gardner), 1918, 12, 76
β-Cholestanone, oxidation of, by ammonium persulphate (Ellis and Gardner), 1918, 12, 77
preparation of (Ellis and Gardner), 1918, 12, 77
Cholestene, action of ultra-violet light on (Rosenheim and Webster), 1926, 20, 542
Cholestanone, action of ultra-violet light on (Rosenheim and Webster), 1926, 20, 542
Cholesterol and its esters, critical study of methods of determination of (Gardner and Fox), 1924, 18, 1053
and cholesterol esters, determination of, in urine (Gardner and Gainsborough), 1925, 19, 668
antagonistic effect of, to lecithin on oil-water systems (Corran and Lewis), 1924, 18, 1367
colour reactions for (Ellis), 1918, 12, 160
colour reactions of (Gardner and Williams), 1921, 15, 367
determination of, colorimetric, in tissue fats, source of error in (Gardner and Fox), 1921, 15, 376
determination of, in blood (Gardner and Fox), 1924, 18, 1061
determination of, study of methods of (Gardner and Williams), 1921, 15, 363
distillation of (Gardner), 1921, 15, 246
effect of, on interfacial tension between oil and water (Corran and Lewis), 1924, 18, 1364
effect of sunlight on (Rosenheim and Webster), 1926, 20, 539
ester, in bile, blood and flesh of hippopotamus (Gardner), 1924, 18, 783
esters, action of ultra-violet light on (Rosenheim and Webster), 1926, 20, 542
esters, inorganic, hydrolysis of, by acid and alkali (Gardner and Fox), 1924, 18, 1067
esters of arachidic, oleic, palmitic and stearic acids, preparation of (Gardner and Fox), 1924, 18, 1064
esters of, colour reactions of (Gardner and Williams), 1921, 15, 371
esters, saponification of (Gardner and Fox), 1924, 18, 1065
etheal sulphate of, in urine (Gardner and Gainsborough), 1925, 19, 671
in albinous urine (Gardner and Gainsborough), 1925, 19, 670
in Mytilus edulis (Daniel and Doran), 1926, 20, 683
in relation to physical nature of cell membranes (Corran and Lewis), 1924, 18, 1364
in unsaponifiable matter of human faeces (Gardner), 1921, 15, 251, 258, 262
in urine, in parenchymatous nephritis (Gardner and Gainsborough), 1925, 19, 670
irradiated, action of, on photographic plate (Lucas), 1926, 20, 23
irradiated, antirachitic dosage of (Rosenheim and Webster), 1926, 20, 538
irradiated, effect of, on growth of rats (Drummond, Coward and Handy), 1925, 19, 1069
irradiated, fractionation of (Rosenheim and Webster), 1926, 20, 540
Cholesterol, irradiation of (Rosenheim and Webster), 1926, 20, 537, 539
isolation of, from liver oil of Somniosus (Weidemann), 1926, 20, 686
phthalic ester acid of (Weidemann), 1926, 20, 688
purification of, for growth experiments (Drummond, Coward and Handy), 1925, 19, 1069
solubility of, in para-dihydro (Rosenheim), 1924, 18, 948
Cholesterol content of bile, blood and flesh of hippopotamus (Gardner), 1924, 18, 777
of human milk (Fox and Gardner), 1924, 18, 127
Cholesterol derivatives, action of ultra-violet light on (Rosenheim and Webster), 1926, 20, 542
Cholesterol-digitonin compounds (Ransom), 1922, 15, 668, 671, 673
Cholesterol-digitonin reaction (Ellis), 1918, 12, 168
Cholesterol secretion in the urine (Gardner and Gainsborough), 1925, 19, 667
Cholesterol synthesis in the animal body (Channon), 1923, 19, 424
Choline as a precursor of guanidine (Sharpe), 1924, 18, 151
determination of, in blood (Sharpe), 1923, 17, 41
in hen's egg, decrease in amount of, during incubation (Sharpe), 1924, 18, 151
Choline phosphotungstate (Drummond), 1918, 12, 19
Chondroitin sulphuric acid in gelatin, effect of, on Hausmann numbers (Knaggs and Schryver), 1924, 18, 1080
Chondrostei, carnosine in (Clifford), 1921, 15, 731
Chondrus crispus, see Carrageen
Chortosterol in grass fruits (Ellis), 1918, 12, 158
Chromogen in Mercurialis (Haas and Hill), 1925, 19, 236
Chromogenic substance in edelweiss, nature of the (Rosenheim), 1918, 12, 285
Chromometer for comparing colour tints of flowers (Rosenheim), 1918, 12, 283
Cidere, sick, preparation of hexa-acetyl-d-mannitol from (Tutin), 1925, 19, 418
Cider sickness, the fate of sugar during (Tutin), 1925, 19, 418
Ciliates, rate of reproduction of, effect of presence of bacteria on (Cutler and Crump), 1924, 18, 905
Circulation of blood in man, accuracy of analyses of ethyl iodide vapour for measurements of (Henderson), 1926, 20, 865
Cis-trans-isomeric acids, action of, on protein precipitation (Cooper and Edgar), 1926, 20, 1064
effect of, on enzyme activity (Cooper and Edgar), 1926, 20, 1063
Cis-trans-isomerism, biological significance of (Cooper and Edgar), 1926, 20, 1060
Citroacetic acid, germicidal power of (Cooper and Edgar), 1926, 20, 1061
Citrates of sodium and potassium, content of lemon- and orange-juices (Harden and Zilva), 1918, 12, 270
INDEX OF SUBJECTS

Citric acid, oxidation of, by washed normal and cancer tissues (Fleisch), 1924, 18, 298
Citrus aurantium, peroxidase in (Onslow), 1920, 14, 546
Citrus decumana, oxidising enzymes of (Onslow), 1921, 15, 116
Citrus fruticosa, oxidising enzymes in peel of (Willimott and Wokes), 1926, 20, 1008
peroxidase in peel of (Willimott and Wokes), 1923, 20, 1009
Citrus limonum, peroxidase in (Onslow), 1920, 14, 546
Citrus medica, juice of, minimum dose of, for protection of guinea-pig from scurvy (Davye), 1921, 15, 86, 80
Citrus medica, extraction of pectin from fruit rind (Hardy), 1924, 18, 283
Cladosphora, vitamin A in (Coward and Drummond), 1921, 15, 535, 538
Clerodendron trichotomum, $pH$ of leaf sap of (Chibnall and Grover), 1926, 20, 112
Climate, influence of, on adaptation of alpine plants (Rosenheim), 1918, 12, 283
Coagulants, intravascular, organic, action of (Pickering and Hewitt), 1921, 15, 717
Coagulation, effect of, on racemisation of pseudoglobulin (Woodman), 1921, 15, 199
heat-, of egg-albumin (Mastin and Rees), 1926, 20, 759
heat-, of proteins (Lepeschkin), 1922, 16, 678
of blood (Pickering and Hewitt), 1922, 16, 587; (Pickering and de Souza), 1923, 17, 447
of blood, effect of citrates and oxalates on (Pickering and de Souza), 1923, 17, 755
of blood, effect of lung extract on (Pickering and Hewitt), 1921, 15, 721
of blood, effect of oil on (Pickering and Hewitt), 1921, 15, 716
of blood, effect of peptone on (Pickering and Hewitt), 1921, 15, 721
of blood, effect of platelets on (Pickering and Hewitt), 1921, 15, 720
of blood, effect of water on (Pickering and Hewitt), 1921, 15, 720
of blood from excised hearts, effect of heat on (Pickering and de Souza), 1923, 17, 749
of blood, physio-chemical aspects of (Pickering and Hewitt), 1921, 15, 710
of blood, theory of (Pickering and de Souza), 1923, 17, 750
of fibrinogen, effect of sodium hydroxide on (Barratt), 1921, 15, 4
Coal, origin of (Thayse, Bakes and Bunker), 1926, 20, 210
Cochlearia amara, $pH$ of leaf sap of (Chibnall and Grover), 1926, 20, 112
Cockroach, see Periplaneta orientalis
Cocoa butter, digestibility of (Gardner and Fox), 1919, 13, 368
Coconut oil, vitamin A content of (Ghose), 1922, 16, 37
Cod, autolysis of muscle of (Callow), 1925, 19, 1
Cod, insulin from islet tissue of, preparation of (Dudley), 1924, 18, 605
muscule of, effect of heat on amino-nitrogen content of suspension in water of minced (Clifford), 1924, 18, 671
muscule of, presence of heat-stable proteolytic catalyst in (Clifford), 1924, 18, 671
vitamin A of liver oil of, in relation to age and sexual condition of (Zilva, Drummond and Graham), 1924, 18, 178
Cod-liver oil, effect of high temperatures on vitamin content of (Southgate), 1925, 19, 733
effect of, on calcium and phosphorus assimilation in growing pig (Husband, Godden and Richards), 1925, 17, 707
effect of, on milk-fat of cows (Golding, Soames and Zilva), 1926, 20, 1306
inactivation of, method of (Zilva), 1922, 16, 44
injected peritoneally, growth-promoting and antirachitic value of (Soames), 1924, 18, 1349
potency of fat-soluble factor in (Zilva and Miura), 1921, 15, 657
refined, vitamin A content of (Stammers), 1926, 20, 659
relation between amount of, in diet, and vitamin B requirements (Pimmer and Rosedale), 1923, 17, 783
stability of vitamin A of, to hardening process (Zilva), 1924, 18, 881
unsaponifiable fraction of (Weidemann), 1926, 20, 690
unsaponifiable fraction of, chemical examination of (Drummond, Channon and Coward), 1925, 19, 1049, 1061, 1056
unsaponifiable fraction of, cholesterol-free residue, fractionation of (Drummond, Channon and Coward), 1925, 19, 1052
unsaponifiable fraction of, preparation of, for study of vitamin A (Drummond, Channon and Coward), 1925, 19, 1048
unsaponifiable fraction of, spinacene in (Drummond, Channon and Coward), 1925, 19, 1055
unsaponifiable fraction of, unsaturated alcohols in (Drummond, Channon and Coward), 1925, 19, 1059, 1064
vitamin A of, durability of (Foulson), 1924, 19, 919
vitamin content of (Stammers), 1924, 18, 9
Co-enzyme, alcoholic, relation of, to respiration of washed muscle and "acetoned" yeast (Holden), 1924, 18, 535
Colamine phosphotungstate (Drummond), 1918, 12, 19
Cold storage, effect of, on meat (Clifford), 1922, 16, 342
effect of, on rat muscle (Clifford), 1922, 16, 343
effect of short periods of, on beef and mutton (Clifford), 1925, 19, 998
of roots and fruits (Delf), 1925, 19, 142
Colloiday thimbles, preparation and calibration of (Zilva and Miura), 1921, 15, 422
Colloidal properties of some Wassermann antigens (Kermack and MacCallum), 1924, 18, 1981

Bioch.
<table>
<thead>
<tr>
<th>Subject</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colloids and haemolysis (Pickering and Taylor), 1923, 17, 916</td>
<td></td>
</tr>
<tr>
<td>osmotic pressure of, influence of anaesthetics on (Ogata), 1922, 18, 449, 454</td>
<td></td>
</tr>
<tr>
<td>osmotic pressure of, influence of salt solution on (Ogata), 1922, 18, 449</td>
<td></td>
</tr>
<tr>
<td>protective action of dibenzoylestone on (Wolf and Rideal), 1922, 16, 552</td>
<td></td>
</tr>
<tr>
<td>Colorimetry, improvements in (Stanford), 1923, 17, 859</td>
<td></td>
</tr>
<tr>
<td>Colostrum, antirachitic and growth-promoting powers of (Luce), 1924, 18, 732</td>
<td></td>
</tr>
<tr>
<td>cow's proteins of (Woodman), 1921, 15, 193</td>
<td></td>
</tr>
<tr>
<td>cow's, relation between euglobulin and pseudoglobulin of (Dudley and Woodman), 1918, 12, 339</td>
<td></td>
</tr>
<tr>
<td>euglobulin and pseudoglobulin of, racemisation of (Dudley and Woodman), 1918, 12, 340, 345–7</td>
<td></td>
</tr>
<tr>
<td>euglobulin and pseudoglobulin of, racemised, amino-acids derived from (Dudley and Woodman), 1918, 12, 340, 342</td>
<td></td>
</tr>
<tr>
<td>human, cholesterol content of (Fox and Gardner), 1924, 18, 130</td>
<td></td>
</tr>
<tr>
<td>vitamin A content of (Drummond, Coward and Watson), 1921, 15, 542</td>
<td></td>
</tr>
<tr>
<td>Colour, in eggs, developed on cooking (Tinkler and Soar), 1920, 14, 114</td>
<td></td>
</tr>
<tr>
<td>of green vegetables, effect of different methods of cooking on (Masters and Garbutt), 1920, 14, 75</td>
<td></td>
</tr>
<tr>
<td>Colour changes in rats' fur produced dietetically (Hartwell), 1923, 17, 547</td>
<td></td>
</tr>
<tr>
<td>produced by bacteria upon caseinogen and amino-acids (Cornish and Williams), 1917, 11, 180</td>
<td></td>
</tr>
<tr>
<td>Colour reaction for aldehydes (Fearon), 1918, 12, 179</td>
<td></td>
</tr>
<tr>
<td>for disulphides (Walker), 1925, 19, 1082</td>
<td></td>
</tr>
<tr>
<td>for vitamin A (Rosenheim and Drummond), 1925, 19, 753</td>
<td></td>
</tr>
<tr>
<td>Colour reactions associated with vitamin A (Fearon), 1925, 19, 888</td>
<td></td>
</tr>
<tr>
<td>attributed to vitamin A (Carr and Price), 1926, 20, 497</td>
<td></td>
</tr>
<tr>
<td>Colpidium, alleloclastalytic effect in cultures of (Robertson), 1924, 18, 1240</td>
<td></td>
</tr>
<tr>
<td>Colpidium colpoda, artificial culture of (Cutler and Crump), 1923, 17, 175</td>
<td></td>
</tr>
<tr>
<td>cultures of, from single cells (Cutler and Crump), 1924, 18, 909</td>
<td></td>
</tr>
<tr>
<td>effect of washing upon the reproductive rate of (Cutler and Crump), 1925, 19, 450</td>
<td></td>
</tr>
<tr>
<td>rate of reproduction of, in artificial culture (Cutler and Crump), 1923, 17, 174, 878; 1924, 18, 905</td>
<td></td>
</tr>
<tr>
<td>size of inoculum, and rate of reproduction of (Cutler and Crump), 1924, 18, 908</td>
<td></td>
</tr>
<tr>
<td>Complement, action of alkali, amines and ammonia on (Gordon, Whitehead and Wormall), 1926, 20, 1028, 1030, 1034</td>
<td></td>
</tr>
<tr>
<td>fourth component of, and its relation to calcium and opsonin (Gordon, Whitehead and Wormall), 1926, 20, 1040, 1044</td>
<td></td>
</tr>
<tr>
<td>of zymin-inactivated serum, separation into mid- and end-piece (Whitehead, Gordon and Wormall), 1923, 19, 624</td>
<td></td>
</tr>
<tr>
<td>production of, effect of deficient nutrition on (Zilva), 1919, 13, 172</td>
<td></td>
</tr>
<tr>
<td>Complement, third component or heat-stable factor of (Whitehead, Gordon and Wormall), 1925, 19, 618</td>
<td></td>
</tr>
<tr>
<td>Complement action and calcium (Gordon, Whitehead and Wormall), 1926, 20, 1036</td>
<td></td>
</tr>
<tr>
<td>effect of excess of carbon dioxide on (Whitehead, Gordon and Wormall), 1925, 19, 624</td>
<td></td>
</tr>
<tr>
<td>Concentration of antitoxic sera, effect of phenol and creasylic acid on (Homer), 1917, 11, 277</td>
<td></td>
</tr>
<tr>
<td>of antitoxic sera, factors causing irregular results in (Homer), 1917, 11, 31, 37</td>
<td></td>
</tr>
<tr>
<td>of antitoxic sera, reaction in relation to (Homer), 1917, 11, 21</td>
<td></td>
</tr>
<tr>
<td>Conductivity of red cell suspensions during haemolysis, changes in (Ponder and Taylor), 1925, 19, 552</td>
<td></td>
</tr>
<tr>
<td>Constitution, chemical, and physiological action, relationship between (Stedman), 1926, 20, 719</td>
<td></td>
</tr>
<tr>
<td>Cooking, methods of, employed for dried legumes (Masters), 1918, 12, 231</td>
<td></td>
</tr>
<tr>
<td>of eggs, formation of ferrous sulphide during (Tinkler and Soar), 1920, 14, 114</td>
<td></td>
</tr>
<tr>
<td>of green vegetables, methods employed for (Masters and Garbutt), 1920, 14, 75</td>
<td></td>
</tr>
<tr>
<td>Copper, determination of small quantities of, in tissues (Currie), 1924, 18, 1224</td>
<td></td>
</tr>
<tr>
<td>effect of, upon growth of rat carcinoma (Hieger), 1926, 20, 232</td>
<td></td>
</tr>
<tr>
<td>Copper solutions, effect of sodium trichloroacetate on the reduction of, by glucose (Stiven), 1924, 18, 19</td>
<td></td>
</tr>
<tr>
<td>Copper sulphate, coefficient of diffusion of, in gelatin and agar-agar (Stiles), 1921, 15, 631</td>
<td></td>
</tr>
<tr>
<td>Coprosterol, action of ultra-violet light on (Rosenheim and Webster), 1926, 20, 542</td>
<td></td>
</tr>
<tr>
<td>and digitonin, physiological action of (Ransom), 1922, 16, 670, 673, 674</td>
<td></td>
</tr>
<tr>
<td>colour reactions of (Gardner and Williams), 1921, 15, 367</td>
<td></td>
</tr>
<tr>
<td>distillation of (Gardner), 1921, 15, 247</td>
<td></td>
</tr>
<tr>
<td>excrretion of, in faeces of man (Gardner), 1921, 15, 245, 249, 257, 261</td>
<td></td>
</tr>
<tr>
<td>possible presence of, in faeces of rabbits fed on cabbage stalks (Ellis), 1918, 12, 158</td>
<td></td>
</tr>
<tr>
<td>pseudopo-, and digitonin, physiological action of (Ransom), 1922, 16, 670, 671, 674</td>
<td></td>
</tr>
<tr>
<td>pseudopo-, colour reactions of (Gardner and Williams), 1921, 15, 370</td>
<td></td>
</tr>
<tr>
<td>pseudopo-, distillation of (Gardner), 1921, 15, 248</td>
<td></td>
</tr>
<tr>
<td>pseudopo-, esters of (Gardner), 1921, 15, 249</td>
<td></td>
</tr>
<tr>
<td>Coprosterol esters, colour reactions of (Gardner and Williams), 1921, 15, 371</td>
<td></td>
</tr>
<tr>
<td>preparation of (Gardner), 1921, 15, 247</td>
<td></td>
</tr>
<tr>
<td>Corchorus capsularis, raffinose in seed of (Annett), 1917, 11, 15</td>
<td></td>
</tr>
<tr>
<td>Cork, potato, chemical nature of membrane of (Rhodes), 1925, 19, 454</td>
<td></td>
</tr>
<tr>
<td>Cornea, bacterial invasion of, in keratomalacia (Stephenson and Clark), 1920, 14, 502</td>
<td></td>
</tr>
<tr>
<td>Corpuscles, blood, see Blood corpuscles</td>
<td></td>
</tr>
<tr>
<td>Corpuscular volume, contribution of the, to the viscosity of blood (Trevan), 1918, 12, 67</td>
<td></td>
</tr>
<tr>
<td>measurement of the, in blood (Trevan), 1918, 12, 65</td>
<td></td>
</tr>
</tbody>
</table>
INDEX OF SUBJECTS

Cotton, action of sea water on (Dorée), 1920, 14, 709
bacterial contamination of, during preparation (Fleming and Thaysen), 1921, 15, 408
deterioration of, on wet storage (Fleming and Thaysen), 1920, 14, 25; 1951, 15, 407
determination of damaged fibres in (Fleming and Thaysen), 1921, 15, 409
resistance of, to bacterial destruction (Thaysen and Bunker), 1924, 18, 140, 142
Cotton-seed meal poisoning (McGowan and Crichton), 1924, 18, 273
Cotton-seed oil, replacement of, by sesame oil in diet (Chick), 1926, 20, 124
Cow, colostrum of, proteins of (Dudley and Woodman), 1918, 12, 339
milk-fat of, distribution of fatty acids in the (Crowther and Hynd), 1917, 11, 139
milk of, antisorbic value of (Chick, Hume and Skelton), 1918, 12, 131
milk of, biological value of proteins of (Martin and Robison), 1922, 16, 430, 445
milk of, influence of diet and sunlight on growth-promoting and antirachitic properties of (Luce), 1924, 18, 716
serum, colostrum and milk of, investigation of proteins of, by racemisation method (Woodman), 1921, 15, 187
Crambe cordifolia, pH of leaf sap of (Chibnall and Grover), 1929, 20, 112
Creatine, action of nitrous acid on (Hynd and Macfarlane), 1926, 20, 1209
amount of, in meat during cold storage (Clifford), 1925, 19, 1000
formation of (Thompson), 1917, 11, 307, 313
production and fate of, in the animal body (Orr), 1918, 12, 227
reducing action in Wood-Ost sugar method (Winter), 1926, 20, 669
reducing power of (Holmes and Holmes), 1926, 20, 586
Creatine-creatinine ratio, effect of parathyroid feeding on (Woodman), 1925, 19, 588
Creatine excretion in bird, effect of injection of paraformaldehyde or hexamethylenetetramine on (Thompson), 1917, 11, 307, 310
in ruminants (Orr), 1918, 12, 221
in the goat, effect of carbohydrates on (Orr), 1918, 12, 224
in the goat, effect of cessation of lactation on (Orr), 1918, 12, 225
in the goat, effect of proteins on (Orr), 1918, 12, 226
Creatine metabolism, effect of parathyroid feeding on (Woodman), 1925, 19, 595
Creatine, amounts of, in meat during cold storage (Clifford), 1925, 19, 1000
concentration ratio of (Rehberg), 1926, 20, 450
determination of, in plasma (Rehberg), 1926, 20, 451
excretion of (Rehberg), 1926, 20, 450, 454
excretion of, effect of nervous system on (Weinberg), 1921, 15, 306, 308
excretion of, normal (Weinberg), 1921, 15, 307
from sheep's brain (Holmes and Holmes), 1926, 20, 596
in plasma after its ingestion (Rehberg), 1926, 20, 452, 454, 466, 468, 474
Creatinine, possible relationship to iminazole compounds (Zwarenstein), 1926, 20, 743
reducing power of (Cooper and Walker), 1921, 15, 416; (Holmes and Holmes), 1926, 20, 596
Creatinine content of urine, effect of purgation on (Burns), 1920, 14, 94
Creatinine determinations, error due to impure picric acid in (Newcomb), 1924, 18, 291
Creatinine excretion in dog, effect of uric acid ingestion on (Zwarenstein), 1926, 20, 747
in goats and sheep (Orr), 1918, 12, 221, 227
in man, effect of uric acid ingestion on (Zwarenstein), 1926, 20, 744
Creatinine metabolism (Zwarenstein), 1926, 20, 743
Creatinine : nitrogen ratio in man and animals, comparison of (Robison), 1922, 16, 115
Creatinine phosphotungstate (Drummond), 1918, 12, 19
Creatinine piorate, solubility of (Greenwald), 1926, 20, 666
Cresion of red blood corpuscles (Gough), 1924, 18, 212
p-Cresol, action of glutathione on (Handovsky), 1926, 20, 1120
action of potato oxidase on (Onslow and Robinson), 1926, 20, 1141
addition compound of, with quinine (McCance), 1925, 19, 1030
oxidation of, by potato enzymes (Onslow and Robinson), 1925, 19, 421
p-Cresolindophenol, electrode potentials of (Kodama), 1926, 20, 1101
Cresols, m-, o- and p-, carbolic acid coefficient of (Morgan and Cooper), 1921, 15, 591
Cress, vitamin A in (Coward and Drummond), 1921, 15, 531
Cresyllic acid, effect of, on concentration of antitoxic sera by the Banzhaf (1913) process (Homer), 1917, 11, 277
salting out of antitoxic sera heat-denatured in presence of (Homer), 1918, 12, 197
Crotonic acid, mechanism of activation of (Quastel), 1926, 20, 175
Crustacea, decapod, dissociation curves of the oxyhaemocyanin in the blood of (Stedman and Stedman), 1925, 19, 544
relationship of lecithin to growth cycle in (Paul and Sharpe), 1919, 13, 487
Cucumis Melo, oxidising enzymes of (Onslow), 1921, 15, 116
Cuirin (MacLean and Griffiths), 1920, 14, 615
Currant, black and red, oxidising enzymes of (Onslow), 1921, 15, 115
Cyanate, conversion into urea in organism (Gottlieb), 1926, 20, 3
determination of (Fearon), 1923, 17, 801
determination of, in blood (Montgomery), 1925, 19, 71
determination of, in plasma (Montgomery), 1925, 19, 72
in plasma, significance of (Montgomery), 1925, 19, 73
in plasma, test for (Montgomery), 1925, 19, 73
presence of, in blood (Gottlieb), 1926, 20, 1
toxicity of (Gottlieb), 1926, 20, 4
Cyanic acid, hydrolysis of (Fearon and Dockray), 1926, 20, 13, 15
hydrolysis of, with reference to urease action (Fearon), 1923, 17, 88, 803
production of, during oxidative deamination of amino-compounds (Fearon and Montgomery), 1924, 18, 577
relationship of, to urea and ammonia formation in the organism (Fearon and Montgomery), 1924, 18, 581
velocity of decomposition of (Gottlieb), 1926, 20, 1
Cyanide, effect of, inhibiting, on oxidation of cysteine and glutathione (Harrison), 1924, 18, 1007
effect of, on autolysis of dead foetus (Long and Parkes), 1924, 18, 803
effect of, on oxidation of hypoxanthine (Dixon and Thurlow), 1925, 19, 673
effect of, on oxidation of linseed oil in presence of glutathione (Hopkins), 1925, 19, 798
effect of, on oxygen uptake of normal muscle and sarcoma (Fleisch), 1924, 18, 296
Cyanide poisoning and beriberi (Drummond and Marrian), 1926, 20, 1232
β-Cyanopropionic acid, formation of (Dakin), 1917, 11, 84
Cysteine, catalytic action of iron in oxidation of (Harrison), 1924, 18, 1009
effect of, on oxidation of nitrates (Thurlow), 1925, 19, 182
iron-free, preparation of (Harrison), 1924, 18, 1007
metallic-derivatives of (Harris), 1922, 16, 739
non-protein, in plants (Kozlowski), 1926, 20, 1346
oxidation of, inhibiting effect of cyanide on (Harrison), 1924, 18, 1007
Cysteine hydrochloride, action of, on growth of B. sporogenes (Quastel and Stephenson), 1926, 20, 1126
Cystine, absorption of bromine by (Plimmer and Phillips), 1924, 18, 315
absorption spectrum of (Ward), 1923, 17, 900
action of dichloroaminoacetic acid on (Wright), 1926, 20, 631
action of hypochlorite on (Wright), 1926, 20, 529
fate of, when administered to dogs (Hele), 1924, 18, 599
possibilering structure of (Ward), 1923, 17, 898
separation of, from other amino-substances (Hopkins), 1921, 15, 294
Cystine phosphotungstate (Drummond), 1918, 12, 12
Cyste, gas of, analysis of (Schmit-Jensen), 1920, 14, 4
Cytochrome in tumour tissue (Holmes), 1926, 20, 814
Cytopentans, in plants (Clayson, Norris and Schryver), 1921, 15, 644, 648
pentose content of (Clayson, Norris and Schryver), 1921, 15, 649
Cytoplasmic acid, analysis and pentose content of (Clayson, Norris and Schryver), 1921, 15, 652
in plants (Clayson, Norris and Schryver), 1921, 15, 645, 650
Cytoplast, composition of, in respect to the permeability of cell membranes (Corran and Lewis), 1924, 18, 1368
of leaf cell, soluble proteins of (Chibnall and Grover), 1926, 20, 108
Cytoxine, occurrence of, in soils (Mockeridge), 1920, 14, 432
Dactyliis glomerata, flavone in (Thomson), 1926, 20, 1026
pigment of Melanargia galatea in (Thomson), 1926, 20, 1026
Dalmatian hybrids, offspring of, uric acid and allantoin excretion among (Onslow), 1923, 17, 564
uric acid and allantoin excretion of (Onslow), 1923, 17, 334
Deamination, by liver and kidney (Luck), 1924, 18, 690
by various tissues and tissue mixtures (Luck), 1924, 18, 816
of asparagus by liver, effect of hydrogen ion concentration on (McCance), 1924, 18, 496
Deamination, amino-acid, chemistry of (Fearon and Montgomery), 1924, 18, 576
of liver (Lack), 1924, 18, 690
oxidative, by a basidiozyme enzyme (Robinson and McCance), 1925, 19, 251
theory of, in tyrosinase-tyrosine reaction (Raper and Wormal), 1925, 19, 84
Deaminising action of tyrosinase on amino-acids (Happold and Raper), 1925, 19, 92
Decamethylspermine (Dudley, Rosenheim and Starling), 1926, 20, 1082, 1086
salts of (Dudley and Rosenheim), 1925, 19, 1033
Dehydrogenations produced by resting bacteria (Quastel and Whetham), 1925, 19, 520, 645; (Quastel and Woolodridge), 1925, 19, 632; (Quastel), 1926, 20, 166
Delasseria sanguinea, ethereal sulphates in (Haas and Russell-Wells), 1923, 17, 701
Denaturation, effect of, on nitroprusside reaction of proteins (Hopkins), 1925, 19, 807; (Walker), 1925, 19, 1083
heat-, of egg-albumin and oxyhaemoglobin (Lewis), 1926, 20, 965, 978, 984
heat-, of egg-albumin, critical increment of (Lewis), 1926, 20, 983
heat-, of egg-albumin, effect of pH on (Lewis), 1926, 20, 979
heat-, of haemoglobin, critical increment of (Lewis), 1926, 20, 971
heat-, of haemoglobin, effect of pH on (Lewis), 1926, 20, 968
heat-, of oxyhaemoglobin (Lewis), 1926, 20, 986
heat-, of oxyhaemoglobin, critical increment of (Lewis), 1926, 20, 961
heat-, of pseudoglobulin and albumin, effect of, on nature of proteins in concentrated antitoxic sera (Homer), 1917, 11, 292
heat-, of serum-proteins, effect of time of heating on (Homer), 1917, 11, 293
of egg-albumin by weak acids in the presence of salts (Mastin and Schryver), 1926, 20, 1177
of proteins (Leschekin), 1922, 16, 675, 680, 685, 687, 689, 691
INDEX OF SUBJECTS

Denaturation of proteins induced by phenols
(Cooper and Woodhouse), 1923, 17, 611
of proteins, kinetics of (Lewis), 1926, 20,
965, 978, 984
Denitrification as a means of sewage purification
(Cooper), 1921, 15, 515
Dextrins, formation of, by yeast (Naganishii),
1926, 20, 864
Diatoms, marine, synthesis of vitamin A by
(Jameson, Drummond and Coward), 1922,
16, 482
Diatoms, manganese content of (Berkeley),
1922, 18, 75
Diazone green, adsorption of, by ground bones
(Manning and Schryver), 1921, 15, 529
Diazao-reaction in uraeinic sera (Hewitt), 1925,
19, 171
in urine (Hunter), 1925, 19, 25
Diazoregent for carcinos, behaviour of various substances towards (Hunter),
1922, 16, 641, 649
Dibasic acids as hydrogen donators in presence of
B. coli and methylene blue (Quastel and
Whatham), 1925, 19, 524
Di-3-benzoylamino butylamine and its salts
(Dudley and Thorpe), 1925, 19, 848, 849
Dibenzoyl cystine (Wolf and Rideal), 1922, 16,
548
Dibromosuccinic acid, germicidal power of
(Cooper and Edgar), 1926, 20, 1062
iso-Dibromosuccinic acid, germicidal power of
(Cooper and Edgar), 1926, 20, 1062
Dibromoxylene sulphophenathalein (bromoxylene blue), use of, as indicator (Cohen),
1923, 17, 535
Dicarboxylic acids, separation of, from hydrolysis products of caseinogen (Dakin),
1918, 12, 300
unsaturated, fermentation of (Quastel), 1924,
18, 365
Dichloroaminooctic acid, action of, on cystine
(Wright), 1926, 20, 531
stability of (Wright), 1926, 20, 528
Dichlorobenzene, o- and m-, effects of, on nitrogen and sulphur excretion (Callow and
Hele), 1926, 20, 601
Dichloro carbamide, action of alkali on (Hurtley), 1921, 15, 16
ββ-Dichlorodiethyl sulphide, analogues of, rates of hydrolysis of (Peters and Walker), 1923,
17, 2703
effect of sulphur atom on vesicant action of
(Peters and Walker), 1923, 17, 273
rate of liberation of acid by (Peters and
Walker), 1923, 17, 260
Dichloro malonamide, derivatives of (Dakin),
1921, 17, 77
Dichroism in gold sols for Lange test (Grey),
1924, 18, 449
Dichromate method, evaluation of purity of organic products by (Grey), 1923, 17, 768
Dicyclohexidone, oxygenase in (Onslow), 1921, 15,
108
Diet, basal, for detection of vitamin A (Drummond, Coward and Handy), 1925, 19,
1072
basal, for pigs (Magee and Harvey), 1926, 20,
886
basal, for rabbits (Mellanby and Killick),
1926, 20, 906
basal, for rats, modification in (Bond), 1922,
16, 479
basal, vitamin B-free, of Drummond and Watson (Bacharach), 1925, 19, 638
deficient in animal fat, effect on kittens of
(Mackay), 1921, 15, 19; (Tozer), 1921, 15,
28
Diet, deficient, relation of blood constituents to (Thompson and Carr), 1923, 17, 373
effect of, on calcium and phosphorus metabolism (Henderson), 1925, 19, 52
effect of, on calcium : phosphorus ratio, in bones (Robison and Soames), 1925, 19, 160
effect of, on fat-soluble vitamins of cow’s milk (Golding, Soames and Zilva), 1926, 20, 1306
effect of, on growth-promoting and anti-rachitic properties of milk (Luce), 1924, 18, 716
effect of, on mammary secretion (Hartwell), 1921, 15, 140
effect of, on milk-fat (Sheehy), 1921, 15, 706
effect of, on pigments of urine (Roaf), 1921, 15, 687
effect of, on unsaponifiable matter of faces (Gardner), 1921, 15, 256
effect of, on uric acid excretion (Wilson), 1925, 19, 334
effect of, on vitamins A and D of milk (Chick and Roscoe), 1926, 20, 632
effect of, on weight of lactating rats (Hartwell), 1921, 15, 147
high protein, inadequacy of (Reader and Drummond), 1926, 20, 1256
of cow, effect of, on vitamin A value of butter (Drummond, Coward and Watson), 1921, 15, 548
of father, effect of, on young (Korenchevsky and Carr), 1924, 18, 1308
of guinea-pigs, unsuitability of milk for (Jephcott and Bacharach), 1921, 15, 129
of mother during pregnancy, effect on young of excessive amount of calcium in (Korenchevsky and Carr), 1925, 19, 112
of mother, effect of excess protein in, on development of young (Hartwell), 1921, 15, 565
of mother, effect of, on young (Korenchevsky and Carr), 1924, 18, 1313
relation of sugar excretion to, in glycosuria (Mellanby and Box), 1919, 13, 65
unbalanced, effect of, on production of guinea-pig scurvy (Findlay), 1921, 15, 355
varying conditions of, and the effect of alcohol on man and animals (Southgate), 1925, 19, 737
Dietary deficiencies, bactericidal action of blood in (Findlay and Maclean), 1925, 19, 63
Dietetic value of barley, malt and malted liquors as determined by their vitamin content (Southgate), 1924, 18, 769
γ-Dibutyl-β-hydroxybutyric acid, formation of (Dakin), 1919, 13, 413
Disethylamine, addition compounds of, with catechol and resorcinol (McCance), 1925, 19, 1030
Ditos low in iron, calcium, potassium, sodium, chlorine and phosphorus (Zilva), 1919, 13, 176
synthetic (Hartwell), 1925, 19, 729; 1926, 20, 1273
Diffusion of gases (Haldane), 1918, 12, 473
of sodium chloride, coefficient of, effect of concentration of gel on (Stiles and Adair), 1921, 15, 620
of sulphates in gels (Stiles), 1921, 15, 629

Diffusion, rôle of plasma-proteins in (Milroy and Donegan), 1919, 13, 258
Diffusion pressure and osmotic pressure (Haldane), 1918, 12, 471, 488
Digestibility of cocoa butter (Gardner and Fox), 1919, 13, 368
of germinated beans (Adkins), 1920, 14, 637
Digestion of proteins of meat by dogs with ligatured carotids (Zunn), 1918, 12, 42
salivary, effect of acidity on (Clifford), 1925, 19, 220
salivary, effect of halogen salts on (Clifford), 1925, 19, 218
tryptic, of protein in vitro, effect of fat on (Maughan), 1926, 20, 1046
Dightonides of sterols, properties of (Gardner and Williams), 1921, 15, 384
Digionin, adsorption of (Ransom), 1922, 16, 672
physiological effects of (Ransom), 1922, 16, 668
Dightonin-cholesteride (Ransom), 1922, 16, 671, 673
Dightonin-sterol reaction (Ellis), 1918, 12, 168
Dihydantoinpropionylcystine, preparation of (Stewart and Tunnicliffe), 1925, 19, 211
Dihydrocholesterol (Ellis and Gardner), 1918, 12, 74
Dihydrogalactose, synthesis of (Barger and White), 1923, 17, 831
Dihydroxyacetone, conversion of, into methylglyoxal (Clutterbuck and Raper), 1926, 20, 66
determination of, in blood (Kermack, Lambie and Slater), 1926, 20, 488
effect of, in insulin hypoglycaemia (Kermack, Lambie and Slater), 1926, 20, 487
effect of, on blood-sugar (Kermack, Lambie and Slater), 1926, 20, 491
fate of, in animal body (Kermack, Lambie and Slater), 1926, 20, 493
α-Dihydroxybutyric acid, synthesis of (Clutterbuck and Raper), 1926, 20, 67
α-Dihydroxycretonic acid (Clutterbuck and Raper), 1926, 20, 63

1.3. 4-Dihydroxyphenylalanine, formation of, from tyrosine by tyrosinase (Raper), 1926, 20, 735, 738
oxidation of, by tyrosinase (Raper), 1926, 20, 735, 740, 742
3. 4-Dihydroxyphenylethyl alcohol, enzymic formation of (Onslow and Robinson), 1925, 19, 421
3. 4-Dihydroxytoluene, enzymic formation of (Onslow and Robinson), 1925, 19, 421
Diketopiperazine rings, possible existence in protein molecule of (Marston), 1923, 17, 857
Dimethylnaphthols, o-, m- and p- (Stedman), 1926, 20, 720
m-Dimethylnaphthyl carbamate (Stedman), 1926, 20, 725
m-Dimethylnaphthyl methyl-, ethyl- and phenyl-carbamates (Stedman), 1926, 20, 724, 725
o-Dimethylnaphthyl methyl-, ethyl- and phenyl-carbamates (Stedman), 1926, 20, 725
INDEX OF SUBJECTS

<table>
<thead>
<tr>
<th>Subject</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>p-Dimethylaminophenyl methyl-, ethyl- and phenyl-carbamates</td>
<td>(Stedman), 1926, 20, 721, 722</td>
</tr>
<tr>
<td>Dimethylglycinate, solubility of (Greenwald), 1926, 20, 666</td>
<td></td>
</tr>
<tr>
<td>m-Dinitrobenzene, as hydrogen acceptor (Drummond and Marrian), 1926, 20, 1248</td>
<td></td>
</tr>
<tr>
<td>reduction of, by plain and striated muscle (Tsabura), 1925, 19, 401</td>
<td></td>
</tr>
<tr>
<td>reduction of, in xanthine oxidase-hypoxanthine system (Dixon), 1926, 20, 710</td>
<td></td>
</tr>
<tr>
<td>Di-m-nitrobenzoylcystine (Wolf and Rideal), 1922, 16, 554</td>
<td></td>
</tr>
<tr>
<td>Diphytheria culture filtrates, precipitates from (Watson and Langstaff), 1926, 20, 767, 769</td>
<td></td>
</tr>
<tr>
<td>Diphteria toxin, preparation of (Watson and Langstaff), 1926, 20, 765</td>
<td></td>
</tr>
<tr>
<td>Diptheria toxoid, purified, preparation and properties of (Watson and Langstaff), 1926, 20, 763</td>
<td></td>
</tr>
<tr>
<td>Disaccharides, as hydrogen donators in presence of bacteria (Quastel and Whetham), 1925, 19, 649, 658</td>
<td></td>
</tr>
<tr>
<td>Dissociation curves, hydrolytic (Barratt), 1925, 19, 875</td>
<td></td>
</tr>
<tr>
<td>Disulphides, colour reaction for (Walker), 1925, 19, 1082</td>
<td></td>
</tr>
<tr>
<td>reduction of, to sulphhydryl compounds by cyanide (Walker), 1925, 19, 1082</td>
<td></td>
</tr>
<tr>
<td>Duraminoglutaryloystine (Stewart and Tunnicliffe), 1925, 19, 213</td>
<td></td>
</tr>
<tr>
<td>Diuresis, excretion of phosphate during (Hardav and Reay), 1926, 20, 99</td>
<td></td>
</tr>
<tr>
<td>types of (Rehberg), 1926, 20, 459</td>
<td></td>
</tr>
<tr>
<td>Dock, leaves of, carbohydrate enzymes of (Chapman), 1924, 18, 1391</td>
<td></td>
</tr>
<tr>
<td>Dog, maltase in blood of (Compton), 1921, 15, 682</td>
<td></td>
</tr>
<tr>
<td>maltase in serum of, influence of temperature on action of (Compton), 1922, 16, 460</td>
<td></td>
</tr>
<tr>
<td>Dolichos melanophthalma, globulin of, action of plant proteases on (Blagoveschenskii), 1924, 18, 798</td>
<td></td>
</tr>
<tr>
<td>protease of (Blagoveshenskii), 1924, 18, 798</td>
<td></td>
</tr>
<tr>
<td>Donnai equilibrium in gelatin gel in dilute acid or alkali (Fairbrother), 1924, 18, 650</td>
<td></td>
</tr>
<tr>
<td>Dough, expansion of, in rising (Masters and Maughan), 1920, 14, 596</td>
<td></td>
</tr>
<tr>
<td>Drosoaflora, vitamin requirements of (Bacot and Harden), 1922, 16, 148</td>
<td></td>
</tr>
<tr>
<td>Duck, egg-albumin of the, compared with that of the hen (Dakin and Dale), 1919, 13, 248</td>
<td></td>
</tr>
<tr>
<td>Eclampsia, blood-calcium of cases of (Widdows), 1924, 18, 558</td>
<td></td>
</tr>
<tr>
<td>Ectoproteases, occurrence of, in plants (Fisher), 1919, 13, 125</td>
<td></td>
</tr>
<tr>
<td>Edelweiss, flavone derivatives of (Rosenheim), 1918, 12, 285, 287</td>
<td></td>
</tr>
<tr>
<td>grown in London and in the Alps, quantitative relationship of flavone derivatives in (Rosenheim), 1918, 12, 286</td>
<td></td>
</tr>
<tr>
<td>Edesin, antithrombin from (Pickering and Hewitt), 1922, 16, 595</td>
<td></td>
</tr>
<tr>
<td>effect of, on lipase action (Platt and Dawson), 1925, 19, 866</td>
<td></td>
</tr>
<tr>
<td>Edesin, isolectric point of (Pearsall and Ewing), 1924, 18, 338</td>
<td></td>
</tr>
<tr>
<td>precipitating action of phenols on (Cooper and Woodhouse), 1923, 17, 605</td>
<td></td>
</tr>
<tr>
<td>Eels, respiratory exchange of (Gardner and King), 1922, 16, 736</td>
<td></td>
</tr>
<tr>
<td>Emu, filter, purification of, in presence of nitrates (Cooper), 1921, 15, 514</td>
<td></td>
</tr>
<tr>
<td>Egg, avian, metabolic behaviour of i-inositol in developing (Needham), 1924, 18, 1371</td>
<td></td>
</tr>
<tr>
<td>distribution of nitrogen in the proteins of (Plimmer and Rosedale), 1925, 19, 1015</td>
<td></td>
</tr>
<tr>
<td>effect of vitamin content of diet on fertility of (Plimmer and Rosedale), 1923, 17, 788</td>
<td></td>
</tr>
<tr>
<td>formation of ferrous sulphide during cooking of (Tinkler and Soar), 1920, 14, 114</td>
<td></td>
</tr>
<tr>
<td>hen's, changes of lime content of, during development (Pimmer and Lowndes), 1924, 18, 1163</td>
<td></td>
</tr>
<tr>
<td>hen's, decrease in amount of choline of, during incubation (Sharpe), 1924, 18, 151</td>
<td></td>
</tr>
<tr>
<td>proteins of, yield and composition of (Plimmer and Rosedale), 1925, 19, 1016</td>
<td></td>
</tr>
<tr>
<td>Egg-albumin, amino-nitrogen content of solution of, effect of heat on (Clifford), 1924, 18, 670</td>
<td></td>
</tr>
<tr>
<td>denaturation of, by weak acids in the presence of salts (Mastin and Schryver), 1926, 20, 1177</td>
<td></td>
</tr>
<tr>
<td>effect of, on mammary secretion (Hartwell), 1921, 15, 565</td>
<td></td>
</tr>
<tr>
<td>effect of variation in the pH on the velocity of heat-denaturation of (Lewis), 1926, 20, 978</td>
<td></td>
</tr>
<tr>
<td>heat-coagulation of (Mastin and Rees), 1926, 20, 759</td>
<td></td>
</tr>
<tr>
<td>Egg-white, as source of nitrogen for young rats (Boas), 1924, 18, 422, 1322</td>
<td></td>
</tr>
<tr>
<td>as source of protein for rats in vitamin experiments (Luce), 1924, 18, 720</td>
<td></td>
</tr>
<tr>
<td>fresh and dried, dietetic differences between (Boas), 1924, 18, 1322</td>
<td></td>
</tr>
<tr>
<td>in basal diet of rats (Bond), 1922, 16, 479</td>
<td></td>
</tr>
<tr>
<td>photo-oxidation of (Harris), 1926, 20, 288</td>
<td></td>
</tr>
<tr>
<td>protection against haemolysis afforded by (Pickering and Taylor), 1923, 17, 924</td>
<td></td>
</tr>
<tr>
<td>proteins of, nitrogen distribution in (Plimmer and Rosedale), 1925, 19, 1018</td>
<td></td>
</tr>
<tr>
<td>Egg-yolk, effect of, in diet (Smith and Chick), 1926, 20, 135</td>
<td></td>
</tr>
<tr>
<td>proteins of, nitrogen distribution in (Plimmer and Rosedale), 1925, 19, 1018</td>
<td></td>
</tr>
<tr>
<td>Eggs, Chinese preserved, vitamin content of (Tso), 1926, 20, 17</td>
<td></td>
</tr>
<tr>
<td>Elastin, new hydrolysis product from (Engelstadt), 1925, 19, 850</td>
<td></td>
</tr>
<tr>
<td>Electrical resistance, specific, of frog's muscle (Hartree and Hill), 1921, 15, 379</td>
<td></td>
</tr>
</tbody>
</table>
Electrode, glass, use of (Kerridge), 1925, 19, 611

Electrolytes, amphoteric, action of salts and non-electrolytes upon (Haynes), 1921, 15, 440

amphoteric, theory of (Haynes), 1921, 15, 444

colloidal, significance of, in plants (Haas and Russell-Wells), 1923, 17, 897

liberation of during haemolysis (Ponder and Taylor), 1925, 19, 556

of vegetable saps, electrical conductivity as a measure of the content of (Haynes), 1919, 13, 111

penetration of, into gels (Stiles), 1920, 14, 58; 1923, 17, 530

penetration of, into gels, mathematical discussion of (Adair), 1920, 14, 762

strong, theory of (Warburg), 1922, 16, 161

Electrolytic dissociation (Warburg), 1922, 16, 159

Electrometric determination of [H+] of bicarbonate solutions (Martin and Lepper), 1920, 20, 1077

Electrostructure and oxidation of fatty acids (Kay and Raper), 1922, 16, 408

Ein, distribution of cellulose-a and lignin in (Mehta), 1925, 19, 975

Enchyelas faricimen, allelocaalyses of (Robertson), 1921, 15, 617

factors affecting growth of (Robertson), 1921, 15, 597, 601, 604

Endoprotease, occurrence of, in plants (Fisher), 1919, 13, 125

Enterointoxication, causes and treatment of (Distaso and Sudgen), 1919, 13, 153

Enterokinase, activation of pancreatic juice by (Seth), 1924, 18, 1401

do, preparation of (Seth), 1924, 18, 1401

Enterolith, human, composition of (Raper), 1921, 15, 45

Environment, biochemical changes due to (Rosenheim), 1918, 12, 283

Enzyme and substrate, combination of (Briggs), 1926, 20, 574

basidiomycete, oxidative deamination by (Robinson and McCance), 1925, 19, 251

bone, action of, on organic phosphorus compounds in blood (Kay and Robison), 1924, 18, 755

bone, effect of, on blood-phosphate (Robison and Soames), 1925, 19, 157

muscle, action of, on hexosephosphoric esters (Kay and Robison), 1924, 18, 1140

nicotine-splitting, of tobacco leaves (Fodor and Reifenberg), 1925, 19, 833

optimum temperature of action of (Brownlee), 1924, 18, 16

proteolytic, of yeast, nature of (Ivanov), 1918, 13, 106

Scharlenger, possible identity of, with xanthine oxidase (Dixon and Thurlow), 1924, 18, 985

Enzyme action, effect of, in producing growth-promoting substances in manures (Mocke-Riddle), 1920, 14, 432

kinetics of (Briggs), 1925, 19, 1037; (Briggs and Haldane), 1925, 19, 338

Enzyme action, Michaelis's theory of, discussion of (Brownlee), 1925, 19, 377

Enzymes, carbohydrate, of some starch-free monocotyledons (Chapman), 1924, 18, 1388

distribution of, in alimentary canal of chickens (Plummer and Rosedale), 1922, 16, 23

do blood (Compton), 1922, 16, 460; 1923, 17, 536

do of direct oxidising systems in plants (Onslow), 1920, 14, 535

do of juice of tobacco leaves (Fodor and Reifenberg), 1925, 19, 832

of latex of Indian poppy (Annett), 1922, 16, 765

do of sap of vine (Wormall), 1924, 18, 1199

do oxidising (Onslow), 1919, 13, 1; 1925, 17, 216; 1924, 18, 549; (Onslow and Robinson), 1920, 20, 1138

oxidising, distribution of, among higher plants (Onslow), 1921, 15, 107

oxidising, in peel of Citrus fruits (Willimott and Wokes), 1920, 20, 1008

oxidising, of fruits (Onslow), 1920, 14, 541; 1921, 15, 107

oxidising, of higher and lower plants, comparison of (Robinson), 1924, 18, 543

plant, oxidation of certain para-hydroxy-compounds by, and its connection with "tyrosinase" (Onslow and Robinson), 1925, 19, 420

proteolytic, azine and azoniam compounds of (Marston), 1923, 17, 851

specific behaviour of (Quastel), 1926, 20, 193

urea-producing, effect of hydrogen ion concentration on activity of (McCance), 1925, 19, 138

Epilepsy and calcium ion concentration (Marrack and Thacker), 1926, 20, 592

Equilibrium, Donnan, in gelatin gel in dilute acid or alkali (Fairbrother), 1924, 18, 600

Equines, blood of (Neser), 1922, 16, 770

Ergamine, see Histamine

Ergosterol, action of ultra-violet light on (Rosenheim and Webster), 1926, 20, 542

in fungi Polyporus nigricans and Polyporus betulinus (Ellis), 1918, 12, 175

Erythrocytes, see Blood-corpuscles

Esox lucius, respiratory exchange in (Gardner and King), 1923, 17, 170

Esterase, hepatic, inhibitor for, in the bile (Winhart), 1920, 14, 406

phosphoric, occurrence of, in various organs (Robison and Soames), 1924, 18, 741, 742, 743

phosphoric, of blood at various hydrogen ion concentrations (Mallard), 1925, 19, 117

phosphoric, of osifying cartilage (Robison and Soames), 1924, 18, 740

Esterase action of lipase preparation (Platt and Dawson), 1925, 19, 869

Esters, asymmetric, hydrolysis of, by lipase (Dawson, Platt and Cohen), 1926, 20, 533

Ethersal sulphates, see Sulphates, etheral

Ethyl alcohol, action of yeast on (Smedley MacLean and Hoffert), 1926, 20, 346
Ethyl alcohol, effect of, on reduction of methylene blue by succinic acid in presence of B. coli (Quastel and Whetman), 1925, 19, 527
fat content of yeast increased by incubation in (Stedman MacLean and Hoffert), 1923, 17, 723
inhibition of glycolysis in blood by (Irvine), 1926, 20, 617
Ethyl butyrate, hydrolysis of, by phosphoric esterase and pancreatic extract (Robison and Soames), 1924, 18, 745
Ethylcarbamido-8-hydroxyquinoline (Stedman), Extractives, Euglobulin and Ethyl Exophthalmic goitre, sulphur Eye lens, Iodide alkalinity of, Exercise, effect Excretory rhythm Ethyl alcohol, content fat isolation content potassium rabbit’s, unsaponifiable infant’s, unsaponifiable content amorphous determination of guanidine esterase measurements for and glycine ultra-violet B. coli, 1926, 20, 728
Ethyl iodide vapour, accuracy of analyses of, for measurements of the circulation of the blood in man (Henderson), 1926, 20, 865
Euglobulin and pseudoglobulin, absence of glycine from (Dudley and Woodman), 1918, 12, 348
and pseudoglobulin, comparison of (Woodman), 1921, 15, 196
and pseudoglobulin of colostrum before and after racemisation, comparison of (Woodman), 1918, 12, 340
isolation of amino-acids from (Dudley and Woodman), 1918, 12, 347, 348, 349
of cow’s colostrum (Dudley and Woodman), 1918, 12, 339
Excretory rhythm (Campbell and Webster), 1922, 16, 507
Exercise, effect of, on nitrogen partition in urine (Campbell and Webster), 1921, 15, 661
Exophthalmic goitre, sulphur excretion in (Craig and Harington), 1924, 16, 88
Extractives, nitrogenous, of tumours (Drummond), 1917, 11, 246
Eye lens, blue fluorescent substance of, in ultra-violet light (Kinnersley, Peters and Squires), 1925, 19, 408
Faeces, alkalinity of, on high calcium-low phosphorus diet (Jephcott and Bacharach), 1926, 20, 1353
amorphous sterols from, colour reactions of (Gardner and Williams), 1921, 15, 371
determination of fatty acids and soaps in (Sharpe), 1917, 11, 96
determination of sterols in unsaponifiable matter of (Gardner and Williams), 1921, 15, 372
fat content of, effect of biliary exclusion on (Telfer), 1921, 15, 348
guanidine content of, in idiopathic tetany (Sharpe), 1920, 14, 46
human, unsaponifiable matter of ether extract of, composition of (Gardner), 1921, 15, 244
infant’s, unsaponifiable matter of (Gardner), 1921, 15, 258
potassium content of growing pig’s (Richards, Godden and Huebland), 1924, 18, 654
rabbit’s, unsaponifiable matter of, composition of (Gardner), 1921, 15, 244
unsaponifiable matter of, effect of diet on (Gardner), 1921, 15, 256
Fagara, chemistry of the genus (Goodson), 1921, 15, 123
Fagaramide, in bark of Zanthoxylum macrophyllum (Goodson), 1921, 15, 126
Fat and carbohydrate, relative values of, as sources of muscular energy (Krog and Lindhard), 1920, 14, 290
animal, effect on kittens of a diet deficient in (Mackay), 1921, 15, 19; (Tozer), 1921, 15, 28
butter-, methyl esters from, preparation and fractional distillation of (Crowther and Hynd), 1917, 11, 147
determination of, in blood (Stewart and White), 1922, 18, 840
distribution of, in resting and fatigued muscle of cat (Cuthbertson), 1925, 19, 896
effect of ingestion of, in biliary exclusion (Telfer), 1921, 15, 352
effect of, on nitrogen distribution in urine (Catheart), 1922, 16, 747
effect of, on tryptic digestion of protein in vitro (Maughan), 1926, 20, 1046
effect of phosphate on storage of, by yeast (Smedley MacLean and Hoffert), 1926, 20, 394
formation of, by yeast cell, conditions influencing (Smedley MacLean), 1922, 16, 370, 375
human, unsaponifiable matter of (Gardner), 1921, 15, 267
in yeast, amount of (Smedley MacLean), 1922, 16, 371
metabolism of atrophic infants (Hickmans), 1924, 18, 925
metabolism of, in yeast (Smedley MacLean and Hoffert), 1925, 17, 720; 1926, 20, 343
metabolism of, in yeast, effect of phosphates on (Smedley Maclean and Hoffert), 1924, 18, 1274
metabolism, rôle of fat-soluble factor in (Drummond), 1919, 13, 95, 101
milk-, of cow and sheep, distribution of fatty acids in (Crowther and Hynd), 1917, 11, 139
of faeces, effect of biliary exclusion on (Telfer), 1921, 15, 348
of Musculus edulis (Daniel and Doran), 1926, 20, 683
of normal and sclerematous infants (Channon and Harrison), 1926, 20, 85, 87
of “patent” flour (Rosenheim and Webster), 1926, 20, 538
of yeast, presence of vitamin A in (Luco and Smedley MacLean), 1925, 19, 47
part played by, in recovery of rats from chronic experimental anaemia (Scott), 1924, 18, 347
saponified, in faeces, relation of, to excretion of calcium by atrophic infantes (Hickman), 1924, 18, 935
subcutaneous, of normal and sclerematous infants, chemical nature of (Channon and Harrison), 1926, 20, 84
waste of energy from (Krog and Lindhard), 1920, 14, 339
Fat content of breads and cereals (Cormack), 1926, 20, 1052
of human milk in normal and rachitic families (Telfer), 1924, 18, 810
INDEX OF SUBJECTS

Fat content of human milk in successive samples (Telfer), 1924, 18, 810 of milk, variations in (Sheehy), 1921, 15, 708 of muscle of herring (Bruce), 1924, 18, 477
Fat pigment, separation of (Currie), 1924, 18, 231
Fat-soluble factor (Chick, Hume and Skelton), 1918, 12, 134 action of ozone on, in fats (Zilva), 1920, 14, 740 content of cod-liver oil and butter (Zilva and Miura), 1921, 15, 657 determination of (Zilva and Miura), 1921, 15, 654 diet deficient in, for rats (Drummond), 1919, 13, 96 effect of a diet deficient in, on litters, when fed to sows (Zilva, Golding, Drummond and Coward), 1921, 15, 435 effect of certain salts upon the skeleton of rats kept on a diet deficient only in (Korenchevsky and Carr), 1925, 19, 101 effect of, on the fat-soluble factor content of pig fats (Zilva, Golding, Drummond and Coward), 1921, 15, 433 effect of ozone and air on (Zilva), 1922, 16, 42 effect of ultra-violet light on (Zilva), 1919, 13, 169 effect on young of excess of, in mother's diet (Korenchevsky and Carr), 1924, 18, 1313 nature and properties of (Drummond), 1919, 13, 81 of cabbage and carrot, extraction of, by solvents (Zilva), 1920, 14, 494 of cabbage, commercially dried, effect of drying and storage on (Delf and Skelton), 1918, 12, 455–62 of cabbage, effect of heat on (Delf), 1918, 12, 435, 437–42 of diet, relation of quantity of, to development of rickets in rats (Goldblatt), 1923, 17, 298 of fats and oils, relation of, to colour (Drummond and Coward), 1920, 14, 685 relation of, to rickets and growth in pigs (Zilva, Golding, Drummond and Coward), 1921, 15, 427; (Golding, Zilva, Drummond and Coward), 1922, 16, 394; (Zilva, Golding and Drummond), 1924, 18, 872 requirements of adult rats (Drummond), 1919, 13, 95 rôle of, in nutrition and fat metabolism (Drummond), 1919, 13, 95, 97 storage and synthesis of, by rats (Goldblatt and Soames), 1923, 17, 446 supplementary value of light rays to diet graded in its content of (Goldblatt and Soames), 1923, 17, 622 technique of feeding tests for (Drummond and Coward), 1920, 14, 661 See also Vitamin A and Vitamin D Fat-soluble vitamins, effect of irradiated air on growth of rats on a diet deficient in (Hume and Smith), 1923, 17, 364 of winter: milk, effect of cow's diet on (Golding, Soames and Zilva), 1926, 20, 1338
Fat storage of yeast, effect of sulphone on (Smedley MacLean and Hoffert), 1926, 20, 351

Fatigue, effect of, on distribution of phosphorus in the blood (Cuthbertson), 1925, 19, 907 effect of, on phosphorus and fat content of cat's muscle (Cuthbertson), 1925, 19, 896 Fats, animal, food value and pigmentation of (Drummond and Coward), 1920, 14, 672 direct replacement of glycerol in, by higher polyhydric alcohols (Lapworth and Pearson), 1919, 13, 296; (Halliburton, Drummond and Cannan), 1919, 13, 301 effect of glutathione in the oxidation of (Hopkins), 1925, 19, 787; (Allott), 1926, 20, 957 nutritive value of, in relation to colour (Drummond and Coward), 1920, 14, 668 oxidation by glutathione of, effect of iron on (Allott), 1926, 20, 960 tissue, determination of cholesterol in (Gardner and Fox), 1921, 15, 375

Fatty acids as hydrogen donators, in presence of B. coli and methylene blue (Quastel and Whetham), 1925, 19, 521 determination of, in faeces (Sharpe), 1917, 11, 96 distribution of, in the milk-fat of the cow and sheep (Crowther and Hynd), 1917, 11, 139 effect of glutathione on the oxidation of (Hopkins), 1925, 19, 796; (Allott), 1926, 20, 957 free, in intestinal contents, effect of, on excretion of calcium and phosphorus (Telfer), 1921, 15, 347 from fat of scleromatous infants (Channon and Harrison), 1926, 20, 86 from normal infants, variation of, with age (Channon and Harrison), 1926, 20, 88 oxidation of ammonium salts of normal saturated (Chatterbuck and Raper), 1925, 19, 385 oxidation of, and electronic structure (Kay and Raper), 1922, 16, 468 separation of (Lewis), 1926, 20, 1356 unsaturated, oxidation of, in presence of glutathione (Hopkins), 1925, 19, 792 volatile, criticism of the Dyer method of determining (Wolf and Telfer), 1917, 11, 199 with branched chains, mode of oxidation of (Kay and Raper), 1922, 16, 465; 1924, 18, 153

Fearon's colour reaction, non-specificity of, for vitamin A (Roseenheim and Webster), 1926, 20, 1343 Fearon's "Pyrogallol" test as a possible basis for determination of vitamin A (Williommott and Moore), 1926, 20, 869

Fermentation, alcoholic, effect of fatty acids and their salts on (Katagiri), 1926, 20, 427 alcoholic, formation of phosphoric esters during (Lebedev), 1918, 12, 87 alcoholic, question of lactic acid as an intermediate product in (Lebedev), 1917, 11, 189 alcoholic, salt effect in (Harden and Henley), 1921, 15, 312 and adsorption, arithmetical test of the validity of the theory of Bayliss regarding (Brownlee), 1925, 19, 162
INDEX OF SUBJECTS

**Fermentation**, bacterial, variation in end-products of, resulting from increased combined oxygen in substrate (Kay), 1926, 20, 321

by dried yeast preparations (Harden), 1925, 19, 477

efficiency of fructose as inducer of (Harden and Henley), 1921, 15, 177

experiments on (Holden), 1924, 18, 535

cellulose in paunch of ox (Krog and Schmit–Jensen), 1920, 14, 686

of dried tobacco (Fodor and Reifenberg), 1925, 19, 827, 830

glucose and fructose by yeast-juice and zymin, effect of acetaldehyde and methylene blue on, in presence of phosphate and arsenate (Harden and Henley), 1921, 15, 175

glucose by bacteria, effect of soaps on (Wolf), 1923, 17, 817

glucose by yeast preparations, effect of aldehydes, etc. on (Harden and Henley), 1920, 14, 642

glucose acid (Lebedev), 1918, 12, 81

of saturated dicarboxylic acids (Quastel), 1924, 18, 365

of sugars in presence of phosphate and sulphite (Hemmi), 1923, 17, 327

**Ferric chloride** as a test for vitamin A (Carr and Price), 1926, 20, 498

**Ferric hydroxide** sol as a vitamin adsorbent (Zaidel and Funk), 1926, 20, 26

**Ferrocyanide**, calcium, vapour pressure and osmotic pressure of solutions of (Haldane), 1918, 12, 486–7, 493

**Ferrous sulphide**, formation of, in eggs during cooking (Tinkler and Soar), 1920, 14, 114

**Fever**, sulphur excretion during (Craig and Harington), 1924, 18, 91

**Fibres**, textile, bacterial decomposition of (Thaysen, Bakes and Bunker), 1926, 20, 210

**Fibrin**, digestion of, by trypsin (Edie), 1921, 15, 498
digestion of, by trypsin, effect of alcohol on (Edie), 1919, 13, 219
digestion by trypsin, effect of hydrochloric acid on (Edie), 1921, 15, 501

**Fibrinogen**, action of thrombin on (Barratt), 1920, 14, 189
cogulation of, action of sodium hydroxide on (Barratt), 1921, 15, 4, 7
cogulation of, effect of dilution on (Barratt), 1921, 15, 5

in excised hearts, effect of heat on (Pickering and de Souza), 1923, 17, 749

**Fibrinogen–prothrombin complex** of blood (Pickering and de Souza), 1923, 17, 751

**Ficus carica**, oxidising enzymes of (Onslow), 1921, 15, 117

pH of leaf-sap of (Chibnall and Grover), 1926, 20, 112

**Flg**, oxidising enzymes of (Onslow), 1921, 15, 117

**Flir**, Scotch, distribution of lignin in different parts of (Mehta), 1925, 19, 968

Scotch, leaf and stem of, probable constituents of different parts of (Mehta), 1925, 19, 969, 994

**Flsh**, dried, effect of diet containing, on mammary secretion of rats (Hartwell), 1921, 15, 571

**Fish**, fat-soluble factor in nutrition of (Coward and Drummond), 1922, 16, 631

fresh-water, respiratory exchange in (Gardner, King and Powers), 1922, 16, 523

(Gardner and King), 1923, 17, 170

sea-water, influence of pH on oxygen consumption of (Pereira), 1924, 18, 1294

**Fish-liver oils**, origin of fat-soluble factor in (Drummond and Zilva), 1922, 16, 518

**Fish oil**, unsaponifiable fraction of, chemical nature of (Weidemann), 1926, 20, 685

**Flavone** in *Dactylis glomerata* (Thomson), 1926, 20, 1026

**Flavone content** of some white alpine flowers (Rosenheim), 1918, 12, 288

**Flavone derivatives** in edelweiss (Rosenheim), 1918, 12, 287

**Flox**, determination of cellulose-α and lignin in (Mehta), 1925, 19, 975

**Flax fibres**, resistance of, to bacterial destruction (Thaysen and Bunker), 1924, 18, 145

**Flesh**, protein of, analysis of (Rosedale), 1922, 16, 28

**Flour**, bread-making properties of, effect of various substances on (Masters and Maughan), 1920, 14, 586

Indian, composition of (Ghose), 1922, 16, 40

Indian, vitamin B content of (Ghose), 1922, 16, 39

"patent," fat and sitosterol in (Rosenheim and Webster), 1926, 20, 538

**Flours**, effect of digestion on fat content of (Cormack), 1926, 20, 1053

**Flower pigments**, anthocyanidin test for glucoside in (Rosenheim), 1918, 12, 285

**Flowers**, alpine, flavone content of some white (Rosenheim), 1918, 12, 288

phytosterols in (Ellis), 1918, 12, 163

**Fluidity** of the blood (Pickering and de Souza), 1923, 17, 747

**Fluoride**, sodium, effect of, on hydrolysis of organic phosphorus of kidney (Kay), 1926, 20, 794

**Fluorides**, effect of, on salivary digestion (Clifford), 1925, 19, 218

**Foetal re-absorption**, nature of (Long and Parkes), 1924, 18, 800

**Foetus**, autolysis of dead (Long and Parkes), 1924, 18, 802

human, laevulose in the blood of (Orr), 1924, 18, 171

**Fongisterol** in fungi *Polyporus nigricans* and *Polyporus betulinus* (Ellis), 1918, 12, 175

**Foodstuffs**, comparative vitamin B value of (Flimmer and Rosedale), 1923, 17, 784

natural, growth-promoting properties of, for guinea-pigs (Hume), 1921, 15, 30

**Forced breathing**, effect of, on calcium content of human serum (Stewart and Haldane), 1924, 18, 855

**Fornaldehyde**, carboxylic acid coefficient of (Morgan and Cooper), 1921, 15, 591

methylhylation of amino-compounds by (Werner), 1917, 11, 318

polymerisation of, in presence of inorganic substances (Short and Short), 1924, 18, 1330

 rôle played by, in the formation of creatine (Thompson), 1917, 11, 313
Gel, concentration of, effect of, on diffusion coefficient of sodium chloride (Stiles and Adair), 1921, 15, 620
concentration of, effect of, on diffusion coefficients of sulphates (Stiles), 1921, 15, 632
molecular structure of, in dibenzoyl cystine (Wolf and Rideal), 1922, 16, 549, 553

Gel structure, spherites in relation to (Bradford), 1918, 12, 357
theory of (Jordan Lloyd), 1920, 14, 162

Gelatin, abnormal Liesegang stratifications in (Hatschek), 1920, 14, 418
action of hypochlorite on (Wright), 1926, 20, 325
action of, on colloidal gum benzoin (Wright and Kermack), 1923, 17, 636
action of toluquinone, xyloquinone and thymoquinone on (Morgan and Cooper), 1921, 15, 588

amino-nitrogen content of solution of, effect of heat on (Clifford), 1924, 18, 669
analyses of (Plimmer and Shimamura), 1924, 18, 322
ash-free, preparation of (St Johnston and Peard), 1925, 19, 282
basic and acidic properties of (Jordan Lloyd), 1920, 14, 155
blue fluorescent substance of, in ultra-violet light (Kinnerley, Peters and Squires), 1925, 19, 407
coefficient of diffusion of sulphates in (Stiles), 1921, 15, 631, 632
components of, with acid and alkali (Jordan Lloyd), 1922, 16, 536
contracting clot in gel of (Jordan Lloyd), 1920, 14, 584
crystallisation of (Bradford), 1920, 14, 91; 1921, 15, 560; (Knaggs, Manning and Schryver), 1925, 17, 486
dialysed, properties of (Jordan Lloyd), 1922, 16, 530
dissolution of (Fairbrother), 1924, 18, 647
distribution of chloride and trypsin inside and outside particles of (Briggs), 1926, 20, 577
dynamics of formation of, from oesin (Manning and Schryver), 1921, 15, 523
effect of diet containing, on mammary secretion of rats (Hartwell), 1921, 15, 565
effect of treatment of precursor of, on the character of (Knaggs and Schryver), 1924, 18, 1095
electrical conductivity of (Manning), 1924, 18, 1088
electrolysis of (St Johnston and Peard), 1925, 19, 284
extraction of, from bones (Manning and Schryver), 1921, 15, 525
formalised, membranes of, for dialysis (Brown), 1917, 11, 49
gelling power of (Jordan Lloyd), 1922, 16, 351
Hausmann numbers of (Knaggs), 1923, 17, 488; (Knaggs and Schryver), 1924, 18, 1096
heat of imbibition of (Bradford), 1918, 12, 376, 378
hydrolysis of, by baryta (Onslow), 1921, 15, 386

Gelatin, hydrolysis of, by heat-stable catalyst present in cod muscle (Clifford), 1924, 18, 672
hydrolysis of, separation of products of (Buston and Schryver), 1921, 15, 641
interaction of, with benzoquinone (Morgan and Cooper), 1921, 15, 590
molecular weight of (Jordan Lloyd), 1920, 14, 166
nitrogen distribution in (Plimmer and Rose-dale), 1925, 19, 1009, 1011
nitrogen of, diffusible (Knaggs, Manning and Schryver), 1923, 17, 476
non-amino-nitrogen of (Knaggs and Schry-ver), 1924, 18, 1102
optical rotation of (Jordan Lloyd), 1922, 16, 535
osmotic pressure of, in sodium salicylate solutions (Horne), 1924, 18, 1107
partition coefficients of phenols for (Cooper and Woodhouse), 1923, 17, 607
penetration of chlorides into (Stiles), 1923, 17, 533
peptisation of, by mixed liquids (Mardles), 1924, 18, 215
precipitation of, by alcohol (Pickering and Hewitt), 1921, 15, 712
precipitation of the Wasserman antigen by (Kermack and MacCulham), 1924, 18, 1384
preparation of particles of (Bradford), 1921, 15, 561
products of hydrolysis of, separation of, by carbamate method (Kingston and Schry-ver), 1924, 18, 1070
properties of, purified by electric flocculation (Manning), 1924, 18, 1085
purification of (Knaggs, Manning and Schryver), 1923, 17, 473
purification of, by electric flocculation (Knaggs and Schryver), 1924, 18, 1079
purity of (Robison), 1922, 16, 119
purity of, as shown by electrical conductivity (Manning), 1924, 18, 1088
solubility of, in water (Bradford), 1921, 15, 557
solution of, in water, dilute acid or dilute alkali (Fairbrother), 1924, 18, 647
solution of, metastable, in water (Bradford), 1921, 15, 557
sparing effect of, in diet (Wilson), 1925, 19, 327
specific rotation of (Manning), 1924, 18, 1089
sulphur in (Robison), 1922, 16, 120
swelling of, in acid and alkali (Jordan Lloyd), 1920, 14, 147
tyrosine in (Robison), 1922, 16, 119
value of, in relation to nitrogen requirements of man (Robison), 1922, 16, 111
viscosity of solution of (Manning), 1924, 18, 1090

Gelatin dietary, effect of, on fur of rats (Hart-well), 1925, 19, 77
effect of, on metabolism (Robison), 1922, 16, 121, 123, 125

Gelatin gels, swollen, behaviour of, in water vapour (Jordan Lloyd), 1920, 14, 156

Gelatin sol, velocity of gelation and hydrolysis of (Shōji), 1919, 13, 227
INDEX OF SUBJECTS

Gelatin sols in acid and alkali, state of gelatin in (Jordan Lloyd), 1920, 14, 153

Gelatin solutions, electrometric and colori-
metric determination of pK of (St Johnston
and Peard), 1926, 20, 918
formations of spherites in (Bradford), 1921,
15, 555
surface tension of (Mardles), 1924, 18, 227;
(St Johnston and Peard), 1925, 19, 281;
1926, 20, 816
viscosity of (Mardles), 1924, 18, 219

Gelation, application of von Weimann's for-
uila to (Bradford), 1921, 15, 553, 555, 557
effect of heat upon (Shōji), 1919, 13, 229
in gelatin sols, velocity of (Shōji), 1919, 13,
227
in gelation solutions (Bradford), 1921, 15, 556
regarded as crystallisation (Bradford), 1921,
15, 555

Gelling power of gelatin (Jordan Lloyd), 1922,
16, 331

Gels, adsorptive stratification in (Bradford),
1917, 11, 14; 1920, 14, 29, 474
agar-agar, containing silver nitrate, penetra-
tion of sodium chloride into (Stiles), 1920,
14, 58
crystalline nature of (Bradford), 1923, 17,
234
diffusion of mixtures of chlorides in (Stiles),
1923, 17, 530
diffusion of sulphates in (Stiles), 1921, 15,
629
elastic, structures in (Hatchek), 1922, 16,
475
molecular structure of (Jordan Lloyd), 1922,
16, 536, 537
of dibenzoyl cystine, diffusion experiments
with (Wolf and Rideal), 1922, 16, 552
penetration of electrolytes into (Stiles), 1920,
14, 85; 1921, 15, 629; 1923, 17, 530;
(Stiles and Adair), 1921, 15, 620
penetration of electrolytes into, mathe-
matical discussion of (Adair), 1920, 14,
762
structure and properties of (Bradford),
1918, 12, 363
theory of (Bradford), 1918, 12, 351; 1920,
14, 91; 1921, 15, 553; 1923, 17,
230
thermal anomaly of (Bradford), 1918, 12,
370, 373

Germicides, selective action of, on bacteria
(Cooper and Forstner), 1924, 18, 941
use of halogen-phenols as (Cooper and Wood-
house), 1923, 17, 603

Germination, nature of the process of (Fodor
and Reifenberg), 1925, 19, 188
Gerontine, identity of, with spermine (Dudley
and Rosenheim), 1925, 19, 1034
Ghee, analysis of (Ghose), 1922, 16, 36
vitamin A content of (Ghose), 1922, 16,
37

Glands of internal secretion, relationship of
water-soluble accessory substance to
(Drummond), 1918, 12, 40
sexual, and metabolism (Korenchevsky and
Carr), 1925, 19, 773

Glass electrode (Kerridge), 1925, 19, 611

Glutelin, effect of feeding of, upon immunity
(Zila), 1919, 13, 186
identification of β-hydroxyglutamic acid in
(Dakin), 1919, 13, 424
isoelectric point of (Pearsall and Ewing),
1924, 18, 338

Globin of oxyhaemoglobin, preparation and
properties of (Hill and Holden), 1926, 20,
1326

Globulin, of cow's colostrum, isolation of
(Woodman), 1921, 15, 193
serum of cow and ox (Woodman), 1921, 15,
191

Globulins, of colostrum and serum, comparison
of (Woodman), 1921, 15, 196

Glomerulii in kidney, number, filtration surface
and function of (Rehberg), 1926, 20, 455,
457

Glucal, recovery from insulin convulsions ef-
fected by (Winter), 1926, 20, 672

Glucosekin, effect of, on blood-sugar (Hutchi-
son, Smith and Winter), 1923, 17, 684
production of, by bacilli (Hutchinson,
Smith and Winter), 1923, 17, 765

Gluconate, calcium, fermentation of (Kay),
1926, 20, 326
heats of combustion and solution of (Davis,
Slater and Smith), 1926, 20, 1158

Gluconic acid, action of B. coli and B. lactis
aerogenes on (Kay), 1926, 20, 324, 326
heats of combustion and neutralisation of
(Davis, Slater and Smith), 1926, 20, 1157,
1159

Glucosamine, action of nitrous acid on (Hynd
and Macfarlane), 1926, 20, 1270

Glucosan, failure of, to relieve insulin con-
vulsions (Winter), 1926, 20, 671

Glucosazone, formation of, from human blood
(Cooper and Walker), 1921, 15, 417
from decititated lemon juice (Zila), 1924,
18, 183
from tissue-sugar (Winter), 1926, 20, 669

Glucose, absorption of, effect of vitamin B
deficiency on (Eggleton and Gross), 1925,
19, 636
absorption of, from small intestine (Hewitt),
1924, 18, 161
action of B. lactis aerogenes on (Kay), 1926,
20, 326
action of urea on (Hynd), 1926, 20, 195
and free amino-nitrogen, interaction of (Bor-
sok and Wastenyes), 1925, 19, 1128
conversion of, to oxalic acid by A. niger,
theory of (Baistrick and Clark), 1919, 13,
339
degradation of, by the blood-corpuses of the
rabbie (Irving), 1926, 20, 613, 1329
determination of, in biological material
(Holden), 1926, 20, 263
determination of, in blood (Tervaert), 1925,
19, 541; (Milroy), 1925, 19, 746
determination of, in physiological fluids
(Taylor), 1924, 18, 1282
distribution of, in blood (Irvine), 1926, 20,
616
effect of added, on suffic acid formation
in muscle (Moyle), 1924, 18, 357
Glucose, effect of, on blood-fat and blood-cholesterol (White), 1925, 19, 9, 924

effect of, on haemolytic action of salts of quinone (Brahmachari and Sen), 1921, 15, 464

effect of, on oxidative deamination (Fearon and Montgomery), 1924, 18, 578

fermentation of, by bacteria, effect of soaps on (Wolf), 1923, 17, 817

fermentation of, by bacteria, production of starch during (Grey), 1924, 18, 712

fermentation of, effect of acetaldehyde on (Harden and Henley), 1921, 15, 175

fermentation of, effect of methylene blue on (Harden and Henley), 1921, 15, 183

fermentation of, effect of salts on (Harden and Henley), 1921, 15, 313

growth and respiratory exchange of B. coli communis on (Stephenson and Whetham), 1924, 18, 490

heat of combustion of (Davis, Slater and Smith), 1926, 20, 1156

in blood (Lund and Wolf), 1926, 20, 259

insulin and muscle tissue, interaction of (Anderson and Carruthers), 1926, 20, 556

oxidation of, by higher plants (Thomas), 1925, 19, 943

oxidation of, by hydrogen peroxide, in presence of various buffer mixtures (Harden and Henley), 1922, 16, 145

possible transformation of, in intestine (van Creveld), 1923, 17, 860

γ-, search for, in urine of normal individuals after dose of phloridzin (Tallerman), 1924, 18, 583

subjected to intestinal mucosa of rabbit, polarimetric observations on (Stiven and Reid), 1923, 17, 596

urinary, optical activity and reducing power of (Hewitt and de Souza), 1921, 15, 669, 670

Glucose content of normal urine (Lund and Wolf), 1925, 19, 598

Glucose-phthalate medium, effect of acids on the reaction of (Wyeth), 1918, 12, 385

Glucose solutions, osmotic pressures of (Haldane), 1918, 12, 497

Glucose ureide and ureide-urea, preparation of (Hynd), 1926, 20, 205

Glucoside in flower pigments, anthocyandin test for (Rosenheim), 1918, 12, 285

Glucosimine, action of nitrous acid on (Hynd and Macfarlane), 1926, 20, 1270

Glutaconic acid, effect of B. coli on (Quastel and Woolf), 1926, 20, 553

Glutamic acid, absorption spectrum of (Ward), 1923, 17, 900

action of hypochlorite on (Wright), 1926, 20, 530

as hydrogen donator in presence of resting B. coli (Quastel and Whetham), 1925, 18, 646

d-, brucine salt of (Dakin), 1919, 13, 422

effect of, on succinic acid formation in muscle (Moyle), 1924, 18, 358

effect of resting B. coli on (Quastel and Woolf), 1926, 20, 554

Glutamic acid, in acid hydrolysate of trypsin-stable residue of caseinogen (Luck), 1924, 18, 686

isolation of, from euglobulin and pseudoglobulin (Dudley and Woodman), 1918, 12, 349

oxidation of, by washed normal and cancer tissues (Fleisch), 1924, 18, 301

separation of, from the hydrolysis products of caseinogen (Dakin), 1918, 12, 300; (Foreman), 1919, 13, 380

Glutamic acid phosphotungstate (Drummond), 1918, 12, 11

Glutamine, in trypsin-stable residue of caseinogen (Luck), 1924, 18, 689

Glutamyl anilide (Stewart and Tunnicliffe), 1925, 19, 215

Glutamyl bromide (Stewart and Tunnicliffe), 1925, 19, 214

Glutathione, action of, on adrenaline (Handovsky), 1926, 20, 1120

action of, on catechol (Handovsky), 1926, 20, 1120

action of, on p-cresol (Handovsky), 1926, 20, 1120

action of, on growth of B. sporogenes (Quastel and Stephenson), 1926, 20, 1126

action of, on linolenic acid (Allott), 1926, 20, 960

action of, on linseed oil (Allott), 1926, 20, 958

action of, on p-phenylendiamine (Handovsky), 1926, 20, 1119

action of, on quinol (Handovsky), 1926, 20, 1120

and p-phenylendiamine, reduction potentials of (Handovsky), 1926, 20, 1120

autoxidation of, effect of traces of iron on (Hopkins), 1925, 19, 788, 795

catalytic action of iron in oxidation of (Harrison), 1924, 18, 1009

constitution of (Hopkins), 1921, 15, 292;

(Quastel, Stewart and Tunnicliffe), 1923, 17, 586

determination of, in tissues (Tunnicliffe), 1925, 19, 194

effect of iron on oxidation of fats by (Allott), 1926, 20, 960

effect of, on oxidation of fats and fatty acids (Allott), 1926, 20, 957

effect of, on oxidation of fats and proteins (Hopkins), 1925, 19, 787

effect of, on oxidation of nitrates (Thurlow), 1925, 19, 183

effect of, on respiration of "acetoned" yeast (Holden), 1924, 18, 539

effect of, on thermostable sarcoma residue (Fleisch), 1924, 18, 295

from the pea, attempted isolation of (Kozlowski), 1926, 20, 1346

hydrolysis of (Hopkins), 1921, 15, 293

in bacteria (Callow and Robinson), 1925, 19, 22

in brain, amount of (Holmes), 1926, 20, 813

in cancers (Holmes), 1926, 20, 812

in corpuscles of mammalian blood (Holden), 1925, 19, 727

in Mytilus edulis (Daniel and Doran), 1926, 20, 682
Glutathione, in nature, distribution of (Hopkins), 1921, 15, 297
in tissues, amount of (Tunicclife), 1925, 19, 196
iron-free, preparation of (Harrison), 1924, 18, 1007
isolation of, from animal tissues (Hopkins), 1921, 15, 291
isolation of, from yeast (Hopkins), 1921, 15, 289
oxidation of, inhibiting effect of cyanide on (Harrison), 1924, 18, 1007
oxidation of proteins by, influence of fixed SH group on (Hopkins), 1925, 19, 801
oxidation of unsaturated fatty acids by (Hopkins), 1925, 19, 792
oxidation-reduction potential of (Hopkins), 1921, 15, 302
oxidised, reaction of, with tissue-residue (Tunicclife), 1925, 19, 200
oxidised, reduction of, by fixed SH group of muscle (Hopkins), 1925, 19, 801
physiological relations of (Hopkins), 1921, 15, 298
properties of (Hopkins), 1921, 15, 291
question of the production of, in bacterial cultures (McLeod and Gordon), 1924, 18, 937
reduced, in tissues (Tunicclife), 1925, 19, 197
reduction of methaemoglobin by (Handovsky), 1920, 20, 1118
specific rotation of (Stewart and Tunicclife), 1925, 19, 214
sulphhydryl constituent of skin and, relation between (Walker), 1925, 19, 1085
synthesis of (Stewart and Tunicclife), 1925, 19, 207
synthetic properties of (Stewart and Tunicclife), 1925, 19, 213
Gluten, effect of diet containing, on fur of rats (Hartwell), 1925, 19, 77
effect of diet containing, on mammary secretion of rats (Hartwell), 1921, 15, 567
Glutenn, identification of 8-hydroxyglutamic acid from (Dakin), 1919, 15, 424
isoelectric point of (Pearsall and Ewing), 1924, 18, 338
Glycerol, direct replacement of, in fats by higher polyhydric alcohols (Lapworth and Pearson), 1919, 15, 296; (Halliburton, Drummond and Cannan), 1919, 15, 301
growth of B. coli communis on (Stephenson and Whetham), 1924, 18, 504
Glycerophosphate, a- and 8-, action of kidney phosphatase on (Kay), 1926, 20, 801, 805
hydrolysis of, by phosphoric esterase and pancreatic extract (Robison and Soames), 1924, 18, 745
sodium, injection of, effect of, on ossification (Robison and Soames), 1925, 19, 159
Glycerophosphates, calcium and sodium, effect of, on growth and skeleton of rats, in deficiency of fat-soluble factor (Komchevsky and Carr), 1925, 19, 101, 104
Glycerophosphoric acids, a- and 8-, as hydrogen donators in presence of B. coli and methylene blue (Quastel and Whetham), 1925, 19, 526
Glycine, action of hypochlorite on (Wright), 1926, 20, 527, 530
as hydrogen donator, in presence of resting B. coli (Quastel and Whetham), 1925, 19, 645
effect of resting B. coli on (Quastel and Woolf), 1926, 20, 554
enzymic oxidation of (Robinson and McCance), 1925, 19, 253
interaction of glucose and (Borsook and Wasteneys), 1925, 19, 1128
neutral salt addition compounds of (King and Palmer), 1920, 14, 574
oxidation of, by hydrogen peroxide (Borsook and Wasteneys), 1925, 19, 1136
oxidative deamination of (Pearson and Montgomery), 1924, 18, 579
permeability of red corpuscles to (Kozawa and Miyamoto), 1921, 15, 167
removal of, from hydrolysis products of caseinogen (Foreman), 1919, 13, 584
synthesis of, from formaldehyde (Ling and Nanji), 1922, 16, 702
Glycine phosphotungstate (Drummond), 1918, 12, 11
Glycogen, conversion of, into lactic acid in chopped muscle (Foster and Moore), 1921, 15, 677
determination of (Holmes and Holmes), 1926, 20, 1197
determination of small amounts of, errors in (Evans), 1925, 19, 1125
formation of, by yeast (Naganishi), 1926, 20, 837, 864
heat of combustion of (Slater), 1924, 18, 621
hydrates of (Slater), 1924, 18, 625
hydrates of, heats of wetting and solution of (Slater), 1924, 18, 627, 628
hydrolysis of, by blood-enzymes (Compton), 1923, 17, 536
in goldfish and trout, amount of (Gardner and King), 1922, 16, 733, 734
in Mytilus edulis (Daniel and Doran), 1926, 20, 682
in Ostrea edulis (Daniel and Doran), 1926, 20, 682, 737
in plain muscle, amount of (Evans), 1925, 19, 1125
of brain and lactic acid, relation between (Holmes and Holmes), 1926, 20, 1196
tissues, effect of insulin on (Dudley and Marrian), 1923, 17, 435
preparation of (Compton), 1923, 17, 537
preparation of, from Mytilus and Ascoria (Slater), 1924, 18, 623
synthesis of, in recovery process in fatigued muscle (Foster and Moore), 1921, 15, 677
Glycogen content of liver, effect of insulin on (Dudley and Marrian), 1923, 17, 436
Glycogenolitic activity of mammalian sera (Compton), 1923, 17, 536
Glycol, action of yeast on (Smedley MacLean and Hoffert), 1926, 20, 346
Glycollic aldehyde, action of yeast on (Smedley MacLean and Hoffert), 1926, 20, 346
Glycolysis by rabbit's corpuscles, effect of PH on (Irving), 1926, 20, 1320
by rabbit's corpuscles, rate of (Irving), 1926, 20, 614
INDEX OF SUBJECTS

Glycolysis, determination of (Irving), 1926, 20, 613
in blood, effect of, on \( p_H \) determination (Martin and Lepper), 1926, 20, 1072
in blood, inhibiting action of alcohols on (Irving), 1926, 20, 617
in blood, site of (Irving), 1926, 20, 615, 617
in human blood, mode of (Dowds), 1926, 20, 1173
temperature coefficient of (Irving), 1926, 20, 1515

Glycosuria, relation of sugar excretion to diet in (Mellanby and Box), 1919, 13, 65

Glycemic acid, action of \( B. \) coli on (Kay), 1926, 20, 324
as a probable constituent of urochrome (Pollock), 1924, 18, 1252
from beech-wood hemicellulose (O'Dwyer), 1926, 20, 663

Glycerol glabra, invertases in leaf of (Blagoveschenski and Sossiedov), 1925, 19, 352
leaf peptase of (Blagoveschenski and Bielorski), 1925, 19, 356

Glyoxalase, in avian beriberi (Findlay), 1921, 15, 104
of rabbit's muscle (Dudley), 1926, 20, 314
of rabbit's muscle, relations of (Foster), 1925, 19, 757, 767

Glycyrhiza glabra, colour test for (Fearon), 1920, 14, 548
fermentation of, by dried yeast, in presence of sugar (Lebedev), 1918, 12, 81, 85
reduction of, by dried yeast (Lebedev), 1918, 12, 81

Goat, collection of uncontaminated samples of urine of (Peters), 1920, 14, 697
maltase in blood of (Compton), 1921, 15, 683
metabolism of (Peters), 1920, 14, 697

Gold, colloidal, preparation of (Grey), 1924, 18, 498

Goldfish, glycogen content of (Gardner and King), 1922, 16, 723
respiratory exchange in (Gardner, King and Powem), 1922, 16, 523; (Gardner and King), 1922, 16, 729

Gooseberry, oxidising enzymes of (Onslow), 1924, 15, 116

Gossypium herbaceum, invertases in leaf of (Blagoveschenski and Sossiedov), 1925, 19, 351
leaf peptase of (Blagoveschenski and Bielorski), 1925, 19, 356

Gout, calcium content of serum in cases of (Coates and Raiment), 1924, 15, 921

Grape, oxidising enzymes of (Onslow), 1921, 15, 116
Grape-fruit, oxidising enzymes of (Onslow), 1921, 15, 116
Grape-fruit rind, oil of, composition and vitamin content of (Willmott and Wokes), 1926, 20, 1299
vitamins and other constituents of (Willmott and Wokes), 1926, 20, 1299

Grape vine, anthocyanins of young leaves of (Rosenheim), 1920, 14, 178

Grass, nitrogenous material of (Chibnall and Schryver), 1921, 15, 70

Grass fruits, composition of (Ellis), 1918, 12, 158
phytosterol of (Ellis), 1918, 12, 154

Grinding, wet, of plant tissues out of contact with air, laboratory apparatus for (Roach), 1925, 19, 783

Groundsel, oxidase of, separation of, into three constituents (Robinson), 1924, 18, 544

Growth, anaerobic, of bacteria (Quastel and Stephenson), 1925, 19, 660
anaerobic, some reactions of resting bacteria in relation to (Quastel, Stephenson and Whetham), 1925, 19, 304
antagonism between calcium and sodium ions with reference to (Cramer), 1918, 12, 211, 215
arrest of, on diet deficient in fat (MacKay), 1921, 15, 23, 25
bacterial, possible rôle of pyruvic acid in (Quastel), 1925, 19, 641
biochemical mechanism of (Cramer), 1918, 12, 210
effect of irradiation of the environment on (Hume and Smith), 1926, 20, 335
effect of lime-juice on (Davey), 1921, 15, 92
effect of variation in mother's diet on (Hartwell), 1921, 15, 145, 157
in absence of fat-soluble vitamin (Chick), 1926, 20, 126
of \( B. \) coli, effect of acids on (Wyeth), 1918, 12, 382
of \( B. \) coli, effect of acids, alkalis and sugars on (Wyeth), 1919, 13, 10
of \( B. \) perfringens and \( B. \) sporogenes, effect of acids on and critical \( p_H \) for (Wolf and Harris), 1917, 11, 213, 230, 242
do guinea-pigs, effect of addition of autoclaved milk to dried cabbage diet on (Delf and Skelton), 1918, 12, 458–62
do of pigs, relation of fat-soluble factor to (Zilva, Golding, Drummond and Coward), 1921, 15, 427; (Golding, Zilva, Drummond and Coward), 1922, 16, 394; (Zilva, Golding and Drummond), 1924, 18, 872
of plants, accessory factors for (Rosenheim), 1917, 11, 7
of rats, comparison of effect of white and brown bread diet on (Hartwell), 1924, 18, 1324
do of rats, effect of yeast extract on (Drummond), 1918, 12, 39
of rats, effect on, of absence of accessory food factors from complete diet (Harden and Zilva), 1918, 12, 410–14
do of tumour and normal tissue (Drummond), 1917, 11, 325
of yeast (Slator), 1918, 12, 248
on synthetic diets (Hartwell), 1926, 20, 1273
supposed effect of irradiated air on (Webster and Hill), 1924, 18, 340

Growth-promoting factor for infusoria ("X substance") (Robertson), 1921, 15, 604

Growth-promoting factors, plant, occurrence of, in manurial composts, and properties of (Mockeridge), 1920, 14, 432

See also Vitamins
INDEX OF SUBJECTS

Growth-promoting properties of cabbage, dried
(Delf and Skelton), 1918, 12, 448
of cabbage, raw and heated (Delf), 1918, 12, 416
of cow's milk, effect of diet and sunlight
upon (Luce), 1924, 18, 716, 1279
of natural foodstuffs for guinea-pigs (Hume),
1921, 15, 30

Growth-promoting value of cod-liver oil
injected intraperitoneally (Soames), 1924,
18, 1349

Guaiacol, effect of, on sulphur metabolism of
the dog (Hele), 1924, 18, 610
synthesis of ethereal sulphate from pre-
formed sulphate and, in the dog (Hele),
1924, 18, 111

Gualaconic acid, effect of metallic oxides on
oxidation of (Gallagher), 1924, 18, 33

Guanidine, action of nitrous acid on
(Hynd and Macfarlane), 1926, 20, 1267
choline as precursor of (Sharpe), 1924, 18,
151

Guanidine content of faeces in idiopathic
tetany (Sharpe), 1920, 14, 46

Guanidinephosphotungstate (Drummond), 1918,
12, 20

Guanidine picate, solubility of (Greenwald),
1926, 20, 666

Guanidines, determination of, in urine (Green-
wald), 1926, 20, 665
determination of, in urine, as picates
(Sharpe), 1925, 19, 168

Guanine, occurrence of, in soils (Mockeridge),
1920, 14, 432

Guaninephosphotungstate (Drummond), 1918,
12, 17

Guano, blue fluorescent substance of, in ultra-
violet light (Kinnersley, Peters and
Squires), 1925, 19, 406

Guinea-pig, antiscorbutic needs of, supplied by
milk (Barnes and Hume), 1919, 13, 308
effect of a diet containing milk and orange-
juice on growth of (Wright), 1921, 15, 697
effect of vitamin A deficiency upon (Boock
and Trevan), 1922, 16, 780
maltase in blood of (Compton), 1921, 15, 683

Guinea-pig scurvy, etiology of (Harden
and Zilva), 1918, 12, 270

Gum benzoin, colloidal, mechanism of precipitation
of, by cerebrospinal fluid (Wright and
Kermack), 1923, 17, 658
colloidal, precipitation of, by electrolytes
(Wright and Kermack), 1923, 17, 639
colloidal, precipitation of, by gelatin and
oxyhaemoglobin (Wright and Kermack),
1923, 17, 645
colloidal, properties of (Wright and Ker-
mack), 1923, 17, 635

Gum-saline, protection against haemolysis
afforded by (Pickering and Taylor), 1923,
17, 920

Hadromal, colour reactions of wood given by
(Mehta), 1925, 19, 969

Haematin, action of, as peroxidase (Harrison
and Thurlow), 1926, 20, 220
catalysing action of, on oxidation of cysteine
and glutathione (Harrison), 1924, 18, 1007
preparation of stannous compound of haema-
TOPORPHYRIN from (Milroy), 1918, 12, 326
reduced, synonymous with haemochromogen
(Halliburton and Rosenheim), 1919, 13,
196
synthetic, in acid solution, preparation of
(Milroy), 1918, 12, 334

Haematoporphyrin, absorption spectra of, in
alcaline and mineral acid solutions (Mil-
roy), 1918, 12, 320, 334
metallic derivatives of, absorption spectra
and properties of (Hill), 1925, 19, 344
metallic derivatives of, preparation and ab-
sorption spectra of (Milroy), 1918, 12, 318
photo-oxidation of (Harris), 1926, 20, 281
relationship of, with other blood pigments
(Halliburton and Rosenheim), 1919, 13,
197
stannous compound of, as a test for blood-
pigment (Milroy), 1918, 12, 327
stannous compound of, preparation of, from
haematin or blood (Milroy), 1918, 12, 326

Haematoporphyrin pigments, comparative re-
sistance to the effect of dilution shown by
the absorption bands of the (Milroy), 1918,
12, 334

Haematuria produced by tellurium β-diketones
(Morgan, Cooper and Burtt), 1924, 18, 199

Haemochromogen and its methyl ester, effect
of oxygen on (Hill), 1925, 19, 348
formation of, from haemin, in pyridine solu-
tion, and from haemoglobin (Hill), 1925,
19, 346
methyl ester of (Hill), 1925, 19, 348
synonymous with reduced haematin (Halli-
burton and Rosenheim), 1919, 13, 196

Haemocyanin (Stedman and Stedman), 1925,
19, 544; 1926, 20, 938, 949
(crab), action of cyanides on (Stedman and
Stedman), 1926, 20, 950
(lobster), determination of oxygen content
of (Stedman and Stedman), 1926, 20, 940
(lobster), potassium salt of (Stedman and
Stedman), 1926, 20, 946

Haemocyanins from different species, prepara-
tion and comparison of (Stedman and
Stedman), 1926, 20, 939, 949

Haemoglobin, action of, as peroxidase (Harrison
and Thurlow), 1926, 20, 220
as oxidative catalyst (Robinson), 1924, 18,
255
combinations of, with oxygen and carbon
monoxide and the effects of acid and
carbon dioxide on (Hill), 1921, 15, 577
dialysis of (Wilson), 1925, 19, 81
effect of, on oxygen uptake of muscle (Han-
dovsky), 1926, 20, 1117
heat-denaturation of, critical increment of
(Lewis), 1926, 20, 971
heat-denaturation of, effect of pH on (Lewis),
1926, 20, 968
in anemic rats, amount of (Scott and Bar-
croft), 1924, 18, 1
in relation to other metallo-haematopor-
phyrins (Hill), 1925, 19, 341
Haemoglobin, nitrogen distribution in (Plimmer and Rosedale), 1925, 19, 1010, 1012
osmotic pressure of (Wilson), 1925, 19, 80
osmotic pressure of, effect of carbon dioxide and acetate acid on (Wilson), 1923, 17, 59
preparation of protoporphyrin from (Hill and Holdens), 1926, 20, 1321
reduced, relationship of, to other blood-pigments (Halliburton and Rosenheim), 1919, 13, 197
Haemolysis (Gough), 1924, 18, 210
changes in conductivity of red cell suspensions during (Ponder and Taylor), 1925, 19, 552
colloids and (Pickering and Taylor), 1923, 17, 916
complement-amoceptor, liberation of electrolytes during (Ponder and Taylor), 1925, 19, 556
effect of blood-sugar and of sugars on (Kennedy), 1925, 19, 318
effect of neutral salts on (Kennedy), 1926, 20, 243
effect of varying cell concentration on (Ponder), 1926, 20, 510
saponin, inhibitory effect of saponin on (Ponder and Kennedy), 1926, 20, 237
saponin, liberation of electrolytes during (Ponder and Taylor), 1925, 19, 556
Haemolytic action of soaps (Ponder), 1924, 18, 845
Haemolytic activity of quinine salts, comparison of (Brahmachari and Sen), 1921, 15, 464
Haemolytic systems, kinetics of (Ponder), 1926, 20, 507
Haemorrhage, effect of, on colour index of corpuscles (Scott), 1923, 17, 159
effect of, on nitrogen content of the blood (Milroy and Donegan), 1919, 13, 259
effect of, on resistance of corpuscles to haemolysis (Brahmachari and Sen), 1921, 15, 465
intestinal, due to nutrition with milk (Brouwer), 1926, 20, 105
Hair, substance giving the nitroprusside reaction in (Kaye), 1924, 18, 1289
Halogen-phenols, relation of, to proteins (Cooper and Woodhouse), 1923, 17, 600
Halogen salts, effect of, on salivary digestion (Clifford), 1925, 19, 218
Hausmann numbers of proteins, micro-determination of (Thimmann), 1926, 20, 1190
Hawthorn, distribution of lignin in different parts of (Mehta), 1925, 19, 968
Hay, growth-promoting properties of (Hume), 1921, 15, 42
Heart, action of salts on (Holker), 1921, 15, 242
Heat, effect of, on milk (Magee and Harvey), 1926, 20, 873, 885
effect of, on vitamin C of vegetable- and fruit-juices (Delf), 1920, 14, 211
Helianthus annuus, pH of leaf-sap of (Chibnall and Grover), 1926, 20, 112
Helianthus multiflorus, pH of leaf-sap of (Chibnall and Grover), 1926, 20, 112
Hemicellulose from pectinogen (Norris and Schryver), 1925, 19, 689
nature of (O'Dwyer), 1926, 20, 656
of American white oak (O'Dwyer), 1923, 17, 501
of starches, hydrolysis of (Schryver and Thomas), 1923, 17, 498
of wheat flour (Clayson and Schryver), 1923, 17, 493
Hemicellulose content of starches (Schryver and Thomas), 1923, 17, 497
Hemicelluloses of beech wood, preparation and hydrolysis of (O'Dwyer), 1926, 20, 656
of beech wood, sugars of (O'Dwyer), 1926, 20, 661
Hemp, determination of cellulose-a and cellulose-b (Warburg), 1922, 16, 153
\( \alpha \)-Hexo(oenanthic) acid, oxidation of, with hydrogen peroxide (Clutterbuck and Raper), 1925, 19, 390
Heracleum sphondylium, pH of leaf-sap of (Chibnall and Grover), 1926, 20, 112
Herbs, dried, ascorbic acid value of (Delf and Skelton), 1918, 12, 448
Hemidin, electrode potentials of (Cannan), 1926, 20, 927
respiratory function of (Cannan), 1926, 20, 935
Herring, age of, method of determining (Bruce), 1924, 18, 484
changes in chemical composition of tissues of, in relation to age and maturity (Bruce), 1924, 18, 469
gonad, muscle and liver of, analyses of (Bruce), 1924, 18, 477
Hexacetylmethyl-cyclo-hexanehexitol (hexacetylemylmitol) (Daniel and Doran), 1926, 20, 679
\( d \)-Hexacetylsorbitol, preparation of, from apple-juice and “sick” cider (Tutin), 1925, 19, 417
Hexahydric alcohols, as hydrogen donators in presence of bacteria (Quastel and Whetham), 1925, 19, 649; (Quastel and Woodbridge), 1925, 19, 658
Hexamethyleneetetramine, creatine excretion in bird produced by (Thompson), 1917, 11, 307
Hexamethylerpermin (Dudley, Rosenheim and Starling), 1926, 20, 1088
Hexamethytrimethylene diammonium hydroxide, derivatives of (Dudley, Rosenheim and Starling), 1926, 20, 1089
cyclo-Hexanol, as an inhibitant of reduction by hydrogen donators (Quastel and Whetham), 1925, 19, 529
cyclo-Hexene, as an inhibitant of reduction by hydrogen donators (Quastel and Whetham), 1925, 19, 529
\( \alpha \)-Hexole (caprole) acid, oxidation of, with hydrogen peroxide (Clutterbuck and Raper), 1925, 19, 390
Hexone bases, the action of nitrous acid upon (Plimmer), 1924, 18, 105
<table>
<thead>
<tr>
<th>Subject</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexosephosphoric acid, hydrolysis of, by emulsin (Robison)</td>
<td>1922, 16, 820</td>
</tr>
<tr>
<td>preparation and properties of (Robison)</td>
<td>1922, 16, 810, 816</td>
</tr>
<tr>
<td>Hexosephosphatase, effect of potassium sulphate and acetaldehyde on (Harden and Henley)</td>
<td>1921, 15, 314</td>
</tr>
<tr>
<td>Hexosephosphate, action of kidney phosphatase on (Kay)</td>
<td>1926, 20, 801</td>
</tr>
<tr>
<td>action of yeast on solutions of (Smedley MacLean and Hoffert)</td>
<td>1924, 18, 1277</td>
</tr>
<tr>
<td>carbohydrate storage in yeast as (Smedley MacLean and Hoffert)</td>
<td>1923, 17, 740</td>
</tr>
<tr>
<td>formation of lactic acid from, by muscle (Foster and Myole)</td>
<td>1921, 15, 678, 680</td>
</tr>
<tr>
<td>intermediate in conversion of carbohydrate to fat in yeast (Smedley MacLean and Hoffert)</td>
<td>1923, 17, 740</td>
</tr>
<tr>
<td>osazones of (Lebedev)</td>
<td>1918, 12, 89</td>
</tr>
<tr>
<td>Hexosephosphates, formation of, by yeast (Naganishi)</td>
<td>1926, 20, 857, 864</td>
</tr>
<tr>
<td>Hexosephosphoric esters, action of the muscle enzyme on (Kay and Robison)</td>
<td>1924, 18, 1140</td>
</tr>
<tr>
<td>hydrolysis of, by enzymes (Robison)</td>
<td>1923, 17, 290</td>
</tr>
<tr>
<td>possible significance of, in ossification (Robison)</td>
<td>1923, 17, 286; 1926, 20, 388; (Robison and Soames), 1924, 18, 740; (Kay and Robison), 1924, 18, 755; (Goodwin and Robison), 1924, 18, 1161; (Martiand and Robison), 1924, 18, 1354; 1926, 20, 847</td>
</tr>
<tr>
<td>Hexoses as hydrogen donors, in presence of bacteria (Quastel and Whetham), 1925, 19, 847; (Quastel and Woolridge), 1925, 19, 668</td>
<td></td>
</tr>
<tr>
<td>phosphoric ester produced by action of yeast-juice on (Robison)</td>
<td>1922, 16, 809</td>
</tr>
<tr>
<td>cyclo-Hexylthymaline as a reduction product of phenylethylamine (Weinragen), 1917, 11, 274</td>
<td></td>
</tr>
<tr>
<td>Hircus esculentus, globulin of, action of plant proteases (Blagoveschenski, 1924,18,798 protease of (Blagoveschenski), 1924, 18, 798</td>
<td></td>
</tr>
<tr>
<td>Hippocoprosterol in rabbit's faeces (Gardner)</td>
<td>1921, 15, 244</td>
</tr>
<tr>
<td>Hippopotamus, cholesterol content of bile, blood and flesh of (Gardner), 1924, 18, 777</td>
<td></td>
</tr>
<tr>
<td>Hippospongia equina, constitution of (Clancey), 1926, 20, 1186</td>
<td></td>
</tr>
<tr>
<td>Hippuric acid synthesis, rôle of lime in (Lackner, Levinson and Morse), 1918, 12, 184</td>
<td></td>
</tr>
<tr>
<td>Hirudin, anticoagulant action of, on blood (Pickering and de Souza), 1923, 17, 756</td>
<td></td>
</tr>
<tr>
<td>Histamine, action of, on secretion of mammary gland (Rothin, Plimmer and Husband), 1922, 16, 3</td>
<td></td>
</tr>
<tr>
<td>antineuritic effect of, compared with that of yeast extract (Peters), 1924, 18, 861 effect of, on lactic acid production in muscle (Evans), 1926, 20, 900</td>
<td></td>
</tr>
<tr>
<td>Histidine, absorption spectrum of (Ward), 1923, 17, 900</td>
<td></td>
</tr>
<tr>
<td>action of nitrous acid on (Plimmer), 1924, 18, 1077</td>
<td></td>
</tr>
<tr>
<td>as a hydrogen donor, in presence of resting B. coli (Quastel and Whetham), 1925, 19, 646</td>
<td></td>
</tr>
<tr>
<td>Histidine, as precursor of purines (Stewart), 1925, 19, 266, 1101</td>
<td></td>
</tr>
<tr>
<td>bacterial conversion of, into urocanic acid (Raistrick), 1917, 11, 71</td>
<td></td>
</tr>
<tr>
<td>bacterial decomposition of (Raistrick), 1919, 13, 446</td>
<td></td>
</tr>
<tr>
<td>deficiency of, in diet, effect of, on allantoin excretion and weight of rats (Stewart), 1925, 19, 1103, 1106</td>
<td></td>
</tr>
<tr>
<td>destruction of, by thermostable catalyst in animal tissues (Clifford), 1923, 17, 552; 1924, 18, 671</td>
<td></td>
</tr>
<tr>
<td>determination of, by bromination (Plimmer and Phillips), 1924, 18, 312</td>
<td></td>
</tr>
<tr>
<td>determination of, colorimetric, in protein hydrolysates (Plimmer and Shimamura), 1924, 18, 324</td>
<td></td>
</tr>
<tr>
<td>determination of, colour standard for (Hunter), 1925, 19, 44</td>
<td></td>
</tr>
<tr>
<td>distribution of nitrogen in products of bacterial decomposition of (Raistrick), 1919, 13, 451</td>
<td></td>
</tr>
<tr>
<td>in urine (Hunter), 1925, 19, 28</td>
<td></td>
</tr>
<tr>
<td>Knoop's test for (Hunter), 1922, 16, 637 permeability of red corpuscles to (Kozawa and Miyamoto), 1921, 15, 168</td>
<td></td>
</tr>
<tr>
<td>precipitation of, by phosphotungstic acid (Drummond), 1918, 12, 8 removal of, from hydrolysed caseinogen (Stewart), 1925, 19, 1103 stabilization of, when boiled with baryta (Onslow), 1921, 15, 385</td>
<td></td>
</tr>
<tr>
<td>tests for, in presence of carnosine (Hunter), 1922, 16, 647, 650</td>
<td></td>
</tr>
<tr>
<td>Histidine phosphotungstase (Drummond), 1918, 12, 13</td>
<td></td>
</tr>
<tr>
<td>Histological diagnosis of experimental scurvy (Tozer), 1918, 12, 445</td>
<td></td>
</tr>
<tr>
<td>Homarus vulgaris, effect of pH on the dissociation curve of oxhaemocyanin from (Stedman and Stedman), 1926, 20, 938</td>
<td></td>
</tr>
<tr>
<td>Hormone, antidiabetic, formation of, by a bacillus (Hutchinson, Smith and Winter), 1923, 17, 764 antidiabetic, preparation of, from yeast (Hutchinson, Winter and Smith), 1923, 17, 683 ovarian, preparation, properties and standardisation of (Dickens, Dodds and Wright), 1925, 19, 853 parathyroid, preparation, properties and source of (Davies, Dickens and Dodds), 1926, 20, 695</td>
<td></td>
</tr>
<tr>
<td>Horse flesh, analysis of protein of (Rosedale), 1922, 18, 28, 39 maltase in blood of (Compton), 1921, 15, 683</td>
<td></td>
</tr>
<tr>
<td>Horseradish, oxidising enzymes of (Robinson), 1924, 18, 544</td>
<td></td>
</tr>
<tr>
<td>Humus, in deteriorated fabrics (Thaysen, Bakes and Bunker), 1926, 20, 210</td>
<td></td>
</tr>
<tr>
<td>Hydantoinacrylic acid, formation of (Dakin), 1919, 13, 409</td>
<td></td>
</tr>
<tr>
<td>Hydantoin-β-chloroproplonlc acid, formation of (Dakin), 1919, 13, 409</td>
<td></td>
</tr>
<tr>
<td>Hydantoin-β-propyllyc acid, formation of (Dakin), 1919, 13, 408</td>
<td></td>
</tr>
<tr>
<td>Hydantoinpropionic acid, bromination of (Dakin), 1919, 13, 406</td>
<td></td>
</tr>
</tbody>
</table>
INDEX OF SUBJECTS

Hydantoinproplonyl bromide, preparation of
(Stewart and Tunncliffe), 1925, 19, 211
Hydantoinpropionate, determination of
(McCance), 1925, 19, 390
Hydrazin sulphate, effect of administration of,
in urine of dogs (Laekner, Levinson and Morse), 1918, 12, 185
Hydrazine sulphonate, effect of administration of, on rate of death of
(Stewart), 1922, 16, 465
Hydrazine sulphate, effect of administration of, on urine of dogs
(Laekner, Levinson and Morse), 1918, 12, 185
Hydrazinocarbonylic acid, action of hypobromite on
(Huntley), 1925, 15, 16
Hydrazinocarbonyl acid, action of hypobromite on
(Huntley), 1925, 15, 16
Hydrazinocarbonylamide, action of hypobromite on
(Huntley), 1925, 15, 16
Hydronic colour reactions (Pearson), 1918, 12, 179
Hydrogen, determination of, by micro-analysis
(Schmit-Jensen), 1920, 14, 4
Hydrogen acceptors in alcoholic fermentation
(Harden and Henley), 1920, 14, 542
Hydrogen donors, reducing coefficients of,
with respect to B. coli (Quastel and Whetham), 1925, 19, 530
Hydrogen ion activities in blood and salt solutions
(Warburg), 1929, 18, 153
Hydrogen ion concentration, critical, for growth of
B. perfringens and B. sporogenes (Wolf and Harris), 1917, 11, 230, 242
determination of, by quinhydrone electrode
in blood of normal males and cancer patients
(Corran and Lewis), 1924, 18, 1358
determination of, a buffer mixture for the
alkaline range of (Atkins and Pantin),
1926, 20, 102
discrepancy between electrometric and
colorimetric determinations of
(Lepper and Martin), 1926, 20, 45
effect of changes in, on heat-denaturation
of pseudoglobulin and albumin (Homer),
1917, 11, 295, 297
effect of, on ammonia and urea production
in autolysis (McCance), 1924, 18, 497, 491, 496
effect of, on colour changes in tyrosine solutions
(Venn), 1920, 14, 99
effect of, on deamination of asparagine by
liver (McCance), 1924, 18, 496
effect of, on enzyme action (Brownlee), 1925,
19, 377
effect of, on enzymes, urea-producing
(McCance), 1925, 19, 138
effect of, on gelatin, surface tension of (St
Johnston and Peard), 1925, 19, 283
effect of, on invertebrates (Blagoveshenski and
Sossiedov), 1925, 19, 350
effect of, on lipase action (Platt and Dawson),
1925, 19, 862
effect of, on oxidation of vitamin C (Zilva),
1923, 17, 411
effect of, on oxygen consumption of sea-water fish
(Pereira), 1924, 18, 1294
effect of, on oxygen uptake of bacteria
(Callow), 1924, 18, 508
effect of, on phosphoric esters, hydrolysis of
(Martland), 1925, 19, 118
effect of, on rate of reduction of methylene
blue by B. coli (Quastel and Whetham),
1924, 18, 520
effect of, on tyrosinase action (Raper and Wormall),
1923, 17, 458

Hydrogen ion concentration, effect of salts on
(Lepper and Martin), 1926, 20, 45
in relation to concentration of antitoxic sera
(Homer), 1917, 11, 247
of blood, accuracy of Dale and Evans method
of determining (Taylor), 1923, 17, 406
of blood, capillary, micro-determination of
(Martin and Lepper), 1926, 20, 37
of blood, comparison of determinations by
hydrogen electrode and method of
Barcroft and Hasselbalch (Parsons and Poulton),
1923, 17, 346
of blood, determination of (Corran and Lewis),
1924, 18, 1359
of blood, effect of temperature on (Martin and
Lepper), 1926, 20, 1071
of blood in pathological conditions (Parsons
and Poulton), 1923, 17, 341
of blood in tetany (Cruickshank), 1924, 18, 60
of blood of scorbutic guinea-pigs (Lepper
and Zilva), 1925, 19, 581
of leaf-sap (Chibnall and Grover), 1926, 20, 110
of medium, change in, during growth of B.
diphtheriae (Wolf), 1922, 16, 541
of muscle-juice (Andrews, Beattie and
Milroy), 1924, 18, 993
of sera, determination of, colorimetrically,
by means of indicators (Homer),
1917, 11, 283
optimum, for deamination of trypsin-stable
residue of caseinogen by liver and kidney
(Luck), 1924, 18, 690
optimum, for phosphoric esterase of ossi-
ifying cartilage (Robison and Soames),
1924, 18, 742
seasonal variation of, in sea-water (Butler
and Coste), 1923, 17, 54

Hydrogen ion concentrations, phosphoric ester-
ase of blood at various (Martland),
1925, 19, 117

Hydrogen peroxide and xanthine oxidase
hypoxyanthine system (Dixon), 1926, 20, 710
oxidation of acetoacetic acid and ester by
(Chatterbox and Raper), 1926, 20, 59
production of, by bacteria (McLeod and
Gordon), 1922, 16, 499
production of, in catechol autoxidation
(Onslow and Robinson), 1926, 20, 1142
production of, in milk, during aerobic oxida-
tion (Thurlow), 1925, 19, 181
production of, in xanthine oxidase system
(Kodama), 1926, 20, 1098
products of oxidation of alkali butyrate by
(Cahen and Hurtley), 1917, 11, 104
stability of, effect of change of pH
on (Harden and Henley), 1922, 16, 146

Hydrogen transport factor, evidence for existence of,
in tissue-methylene blue systems
(Fischl), 1924, 18, 304

Hydrophile colloidal system, red corpuscle as
(Gough), 1924, 18, 205

Hydroquinine, determination of, in blood
(Acton and King), 1921, 15, 58
Hydroxamic acids, preparation of (Lewis), 1926,
20, 1362

-a-Hydroxyacetoclastic acid (Chatterbox and
Raper), 1926, 20, 63
INDEX OF SUBJECTS

Hydroxy-acids as hydrogen donors in presence of B. coli and methylene blue (Quastel and Whetham), 1925, 19, 525
β-Hydroxy−aldehydoubutyric acid (Dakin), 1919, 13, 413
Hydroxyapatite, in bone (Robison and Soames), 1924, 18, 751
Hydroxyaspartic acid, synthesis of (Dakin), 1919, 13, 405
β-Hydroxybutyric acid and acetoacetic acid, proportion of, in blood and urine in diabetes (Kennaway), 1918, 12, 125
in urine, determination of (Goldblatt), 1925, 19, 626
oxidation of (Harrison and Thurlow), 1926, 20, 224
toxicity of, in diabetes (Kennaway), 1918, 12, 124
β-Hydroxyglutamic acid, constitution and synthesis of (Dakin), 1919, 13, 398
fate of, in diabetic organism (Dakin), 1919, 13, 425
identification of, in glutenin and gliadin (Dakin), 1919, 13, 424
occurrence of, in proteins (Dakin), 1918, 12, 303
preparation, properties and salts of (Dakin), 1918, 12, 306
Hydroxyilamine, action of, on glycerides and fatty acids (Lewis), 1926, 20, 1356
Hydroxymercuriacetalsalicillic acid, bactericidal action of (Henry, Sharp and Brown), 1925, 19, 516
Hydroxymercuridibromofluorescein, bactericidal action of (Henry, Sharp and Brown), 1925, 19, 516
2-Hydroxymercuri-3-hydroxybenzaldehyde, bactericidal action of, in water, broth and serum (Henry, Sharp and Brown), 1925, 19, 517
Hydroxymercuri-4-nitro-3-hydroxybenzaldehyde, bactericidal action of (Henry, Sharp and Brown), 1925, 19, 515
Hydroxymercuri-nitrophenols, bactericidal action of (Henry, Sharp and Brown), 1925, 19, 516
β-[4-(4'-Hydroxyphenoxy)phenyl]-a-aminopropionoic acid (Harington), 1926, 20, 310
p-Hydroxyphenylpyruvic acid, effect of tyrosinase on (Raper and Wormald), 1925, 19, 80
α-Hydroxyphenylalanine, antineuritic properties of, the alleged (Harden and Zilva), 1917, 11, 172
crystalline modifications of (Harden and Zilva), 1917, 11, 174
Hyperglycaemia in vitamin B deficiency (Drummond and Marrian), 1926, 20, 1245
Hyphamine, isolation of, from elastin (Engelard), 1925, 19, 852
Hypochlorite, action of, on milk (Wright), 1926, 20, 524
action of, on proteins and amino-acids (Wright), 1926, 20, 524, 530
Hypoxaymin, action of, on secretion of mammary gland (Rothlin, Pimmer and Husband), 1922, 16, 3
See also Pituitrin

Hypoxanthine, effect of catalase on oxidation of, by xanthine oxidase (Dixon), 1925, 19, 510
in peptones and products of proteolysis (Dixon), 1926, 20, 706
occurrence of, in soils (Mockeridge), 1920, 14, 432
oxidation of, by milk oxidase (Dixon), 1926, 20, 704
oxidation of, by molecular oxygen in presence of xanthine oxidase, effect of cyanide, iron and pyrophosphate on (Dixon and Thurlow), 1925, 19, 673, 675
oxidation of, by varying amounts of xanthine oxidase (Dixon), 1925, 19, 508

Hypoxanthine phosophotungstate (Drummond), 1918, 12, 17

Iminazole, destruction of, by heat-stable catalyst (Clifford), 1923, 17, 549; 1924, 18, 671

Iminazolylglycine, synthesis of (Stewart), 1925, 19, 34

Immunity, of rats, affected by feeding on gliadin (Zilva), 1919, 13, 186

Inanition, effect of vitamin B deficiency (Drummond and Marrian), 1926, 20, 1244

Indican, produced by intestinal microbes (Distaso and Sugden), 1919, 13, 153

Indicators, colorimetric determination of hydrogen ion concentration in sera by the use of (Homer), 1917, 11, 283

Indole, aldehyde conjugation derivatives of (Fearn), 1920, 14, 548

Indole derivatives, absorption spectra of some (Ward), 1923, 17, 891

Indole-ethyl alcohol, metabolism of (Ward), 1923, 17, 911

Indole-ethylamine phosophotungstate, preparation and properties of (Drummond), 1918, 12, 16

Indole formation of B. coli, effect of acids, alkalis and sugars on the (Wyeth), 1919, 13, 10

Indole nucleus, action of bacteria on (Rais-trick and Clark), 1921, 15, 79

Indoeprocholic acid, fate of, in animal organism (Ward), 1923, 17, 907

Indoles, detection of (Fearn), 1920, 14, 562

Indophenol mixture, effect of metallic oxides on oxidation of (Gallagher), 1924, 18, 33

Indoxyl, amounts produced in urine by special diets (Distaso and Sugden), 1919, 13, 156

Infant feeding, antiscorbutic value of orange juice and raw swede-juice in (Chick, Hume and Skelton), 1918, 12, 151

application of antiscorbutic experiments to (Barnes and Hume), 1919, 13, 325
INDEX OF SUBJECTS

Infant feeding, use of condensed milk in (Hume), 1921, 15, 165
Infants, atrophic, calcium and fat metabolism of (Hickmans), 1924, 18, 925
diet of, dried milk as (Jephcott and Bache-nach), 1921, 15, 138
Infusoria, allelocaalisis of (Robertson), 1921, 15, 617
factors affecting growth of (Robertson), 1921, 15, 597, 604, 608
isolated, multiplication of (Robertson), 1921, 15, 595
reproduction rate of, effect of mutual con-tiguity on (Robertson), 1921, 15, 609, 612
Insulin, determination of (Needham), 1923, 17, 422
effect of administration of, on creatinine content of urine (Burns), 1920, 14, 94
fermentation of (Hewitt and Steabben), 1921, 15, 665
metabolic behaviour of, in the developing avian egg (Needham), 1924, 18, 1371, 1372
. synthesis of, in animal body (Needham), 1924, 18, 891
Insulin content of hens' eggs (Needham), 1924, 18, 1372
of the animal body, effect of polyuria on (Needham), 1924, 18, 897
Insulturns, in rats, production of (Needham), 1924, 18, 895
Insulin, action of trypsin and pepein on (Dudley), 1923, 17, 381, 386, 387
administration of, effect of, on distribution of phosphorus compounds in blood and muscle (Kay and Robison), 1924, 18, 1139
administration of, effect of, on inorganic phosphate in urine (Sokhey and Allan), 1924, 18, 1170
albumose nature of (Widmark), 1923, 17, 670
and blood-fat (White), 1925, 19, 921
and parathyroid hormone, similarities be-tween (Davies, Dickens and Dodds), 1926, 20, 701
concentration-action curve of (de Jongh), 1924, 18, 833
differentiation of, from pancreatic factor which inhibits lactic acid production by chopped muscle (Foster and Woodrow), 1924, 18, 568
effect of, on blood-phosphorus (Davies, Dickens and Dodds), 1926, 20, 701
effect of, on blood-sugar, in diabetes (Lawn and Wolf), 1925, 19, 122
effect of, on glycojen of tissues (Dudley and Marrian), 1923, 17, 435
effect of, on lactic acid of brain (Holmes and Holmes), 1926, 19, 836
effect of, on respiration of "acetoned" yeast (Holden), 1924, 18, 339
effect of, on serum-calcium (Davies, Dickens and Dodds), 1926, 20, 698
heat production in frog's muscle, not affected by (Azuma and Hartree), 1923, 17, 875
isoelectric point precipitate of (Dudley), 1923, 17, 379, 384
muscle tissue and glucose, interaction of (Anderson and Carruthers), 1926, 20, 556
ovarian hormone and, interaction of (Dickens, Dodds and Wright), 1925, 19, 868
Insulin, preparation of (Dudley and Starling), 1924, 18, 147
properties and purification of (Dudley), 1923, 17, 376
purification of, and removal of "anti-insulin" from (de Jongh), 1924, 18, 837
role of, in phosphorus metabolism (Kolod-ziejska and Funk), 1926, 20, 392
solubility of (Widmark), 1923, 17, 668
stability of, to acid and alkali (Dudley), 1923, 17, 379, 386
symptoms caused by, relief of, by different sugars and their derivatives (Herring, Irvine and Macleod), 1924, 18, 1023
Insulin content of islet tissue of codfish (Dudley), 1924, 18, 665
Insulin convulsions and recovery (Winter), 1926, 20, 668
glucal effective in relief of (Winter), 1926, 20, 672
Insulin hydrochloride (Dudley), 1923, 17, 377, 383
Insulin hypoglycæmia, effect of dihydroxy-acetone in (Kermack, Lambie and Slater), 1926, 20, 487
Insulin injection in normal animals, fate of the blood-sugar after (Hynd), 1925, 19, 1065
Insulin-like substances, isolation of, from bull's testes (Korenechovsky and Carr), 1925, 14, 774
Insulin pircate (Dudley), 1923, 17, 377, 382
Intestinal flora, induction of acetogenous group in (Distaso and Sugden), 1919, 13, 153
Intestinal Juice, action of, on phosphopeptone (Rimington and Kay), 1926, 20, 754
Intestinal microbes, production of indican by (Distaso and Sugden), 1919, 13, 153
Intestinal mucosa, action of extract of, on phosphopeptone (Rimington and Kay), 1926, 20, 784
and ammonia production in vitro (Luck), 1924, 18, 814
Intestine, phosphoric esterase in (Robison and Soames), 1924, 18, 741
small, absorption of glucose, fructose and galactose from (Hewitt), 1924, 18, 161
Insulin, identification of, by myological method (Castellani and Taylor), 1922, 16, 655
Invert sugar from decitratized lemon-juice (Zilva), 1924, 18, 183
Invertase of silkworm (Jameson and Atkins), 1921, 18, 212
Invertases, leaf, specific conditions of action of (Blagoveschenski and Sossiedov), 1925, 19, 350
Iodide, potassium, effect of, on assimilation of nitrogen, phosphorus and calcium by growing pigs (Kelly), 1923, 19, 664
Iodine, determination of (Leitch and Henderson), 1926, 20, 1004
determination of, in foodstuffs and body-fluids (Leitch and Henderson), 1926, 20, 1003
determination of, in thyroid gland (Pickworth), 1925, 19, 768
determination of minute quantities of, in biological material (Kelly and Husband), 1924, 18, 961
INDEX OF SUBJECTS

Iodine, presence of, in antiscorbutic fraction of lemon-juice (Daubney and Zilva), 1926, 20, 1057

Iodine values, abnormal (Smedley MacLean and Thomas), 1921, 15, 319

Iodobenzene, effect of, on nitrogen and sulphur excretion (Coombs and Hele), 1926, 20, 610

Iodogorgonic acid from spongion (Clancey), 1926, 20, 1186

Iron, a cell oxidation system independent of (Dixon and Thurlow), 1925, 19, 672
catalytic action of, in oxidation of cysteine and glutathione (Harrison), 1924, 18, 1009
deficiency in pigs (McGowan and Crichton), 1923, 17, 204; 1924, 18, 265
determination of, in biological substances (Murray), 1924, 18, 852
determination of, in blood, urine and tissues (Fowweather), 1926, 20, 93
effect of, on autoxidation of glutathione (Hopkins), 1925, 19, 788, 785
effect of, on cotton-seed meal poisoning (McGowan and Crichton), 1924, 18, 273
effect of, on enzymic oxidation of hypoxanthine (Dixon and Thurlow), 1925, 19, 675
effect of, on oxidation of fats by glutathione (Allott), 1926, 20, 960
effect of, on peroxidase activity of aldehydes (Gallagher), 1924, 18, 43
haematoporphyrin compound with (Milroy), 1918, 12, 321, 335
in the recovery of rats from chronic experimental anaemia (Scott), 1924, 18, 347
inorganic, distribution of, in plant and animal tissues (Jones), 1920, 14, 654

“Iron, dialysed,” action of, on orange-juice containing antiscorbutic accessory factor (Harden and Zilva), 1918, 12, 96
removal of antineuritic accessory factor from autolysed yeast by (Harden and Zilva), 1918, 12, 95, 105

Irradiated air, effect of, on growth of rats on a diet deficient in fat-soluble vitamins (Hume and Smith), 1923, 17, 364
effect of, on growth, the supposed (Webster and Hill), 1924, 18, 340

Irradiated sawdust, antirachitic action of (Rosenheim and Webster), 1926, 20, 1340

Irradiated sterois, antirachitic properties of (Rosenheim and Webster), 1926, 20, 537

Irradiation, effect of, on calcium and phosphorus metabolism (Henderson), 1925, 19, 52
of cholesterol (Rosenheim and Webster), 1926, 20, 537, 539
of cholesterol, for supply of vitamin D (Drummond, Coward and Hand), 1925, 19, 1072
of environment with radium emanation, effect of, on rats on a diet deficient in fat-soluble vitamins (Chick and Tazelaar), 1924, 18, 1346
of environment with ultra-violet light, effect of, on rats on a diet deficient in fat-soluble vitamins (Hume and Smith), 1924, 18, 1334; 1926, 20, 335
of food, effect of, on calcification in rabbits (Mellanby and Killick), 1926, 20, 922
Irradiation, of rabbits, effect of, on calcification (Mellanby and Killick), 1926, 20, 922
ultra-violet, production of antirachitic properties in sterols of Siak Illipe nut by (Hume and Smith), 1926, 20, 340

Ilet tissue of codfish, preparation of insulin from (Dudley), 1924, 18, 665

Isoelectric points of some plant proteins (Pearsall and Ewing), 1924, 18, 329

Isomerism, cis-trans, biological significance of (Cooper and Edgar), 1926, 20, 1060
position, in relation to miotic activity of urethanes (Stedman), 1926, 20, 719

Itaconic acid, germicidal power of (Cooper and Edgar), 1926, 20, 1062

Itate, inactivation of (Haas and Lee), 1924, 18, 616
nitrite-oxidising agent of milk (Haas and Hill), 1923, 17, 678
relation of, to oxodases (Haas and Lee), 1924, 18, 614, 620

Ivy, effect of (Mellanby et al.), 1925, 19, 273

Jensen's rat sarcoma, oxidation processes of (Fleisch), 1924, 18, 294

Juglans falkas, invertases in leaf of (Blagoveschenski and Sossiedov), 1925, 19, 351
leaf peptase of (Blagoveschenski and Bielozerski), 1925, 19, 356

Juices, fruit and vegetable, storage of (Delf), 1925, 19, 143

Jute seed, preparation of raffinose from (Annett), 1917, 11, 1

Kaempferol, glucoside of, as yellow pigment of flowers of Australian acacias (Petrie), 1924, 18, 957

Kephalin, preparation of (Eggleton), 1926, 20, 396

Kerasin, pentamethyl derivative of, preparation of (Pryde and Humphreys), 1924, 18, 662

Keratomalacia, see Xerophthalmia

Ketoheptolic acids, γ- and δ- from heptolic acid by oxidation (Clutterbuck and Raper), 1925, 19, 391
γ- and δ-, semicarbazones of (Clutterbuck and Raper), 1925, 19, 391
γ- and δ-, synthesis of (Clutterbuck and Raper), 1925, 19, 394

Ketobezoic acids, γ- and δ-, from hexoic acid by oxidation (Clutterbuck and Raper), 1925, 19, 390
γ- and δ-, semicarbazones of (Clutterbuck and Raper), 1925, 19, 390
γ- and δ-, synthesis of (Clutterbuck and Raper), 1925, 19, 394

Keto-oxo acids, γ- and δ-, from oxoic acid by oxidation (Clutterbuck and Raper), 1925, 19, 392

Ketone bodies, oxidation of, by isolated liver of rat (Wigleswroth), 1924, 18, 1217

Keto-octoic acids, γ- and δ-, from octoic acid by oxidation (Clutterbuck and Raper), 1925, 19, 392
Keto-octoic acids, \( \gamma \) - and \( \delta \) - synthesis of (Clutterbuck and Raper), 1925, 19, 394
\( \gamma \)-Ketopalmitic acid (Clutterbuck and Raper), 1925, 19, 389, 395
Ketosis (Wigglesworth), 1924, 18, 1203, 1217
in rats, on a diet deficient in carbohydrates (Wigglesworth), 1924, 18, 1205
of starvation in man, effect of various carbohydrates and of fluid intake on (Goldblatt), 1925, 19, 948
relation between alkalosis and (Wigglesworth), 1924, 18, 1203
\( \gamma \)-Ketostearic acid, from stearic acid by oxidation (Clutterbuck and Raper), 1925, 19, 389
synthesis of (Clutterbuck and Raper), 1925, 19, 395
Kidney, acid-soluble organic phosphorus of (Kay), 1926, 20, 792
action of, on trypsin-stable residue of caseinogen (Luck), 1924, 18, 690
ammonia production by, in vitro (Luck), 1924, 18, 815
autolysing, increase of ammonia and urea in (McCance), 1924, 18, 487
concentration index of (Rehberg), 1926, 20, 449, 471
elimination of acetoacetic acid through (Widmark), 1920, 14, 369
elimination of mercury, bismuth and lead by (Lombaelt), 1924, 18, 693
filtration rate of (Rehberg), 1926, 20, 433, 460
human, rate of filtration of, and reabsorption in (Rehberg), 1926, 20, 447
number of glomeruli in (Rehberg), 1926, 20, 455
of dog, inability of hydrazine to poison (Lackner, Levinson and Morse), 1918, 12, 184, 187
percentages of urea and chlorine reabsorbed in (Rehberg), 1926, 20, 469, 476
phosphoric esterase in (Robison and Soames), 1924, 18, 743
rat, hypertrophy of, on high protein diet (Reader and Drummond), 1926, 20, 1261
reabsorption in (Rehberg), 1926, 20, 468
Kidney function (Rehberg), 1926, 20, 447, 461
Kidney phosphatase (Kay), 1926, 20, 791
Kynurenic acid, absorption spectra of (Ward), 1923, 17, 903
Laccease, relationship of, to peroxidase (Onslow), 1919, 13, 7
relationship of, to tyrosinase (Robinson), 1924, 18, 546
Lactarila, carmine in (Clifford), 1921, 15, 731
Lactacidogen of cat’s muscle, effect of fatigue on (Cuthbertson), 1925, 19, 906
of non-irritable muscle (Edsall), 1926, 20, 572
synthesis of, effect of calcium chloride on (Edsall), 1926, 20, 571
Lactacidogen phosphorus of muscle, effect of insulin administration on (Kay and Robison), 1924, 18, 1149
Lactalbumin of cow’s milk and colostrum, comparison of (Woodman), 1921, 15, 194
Lactarius subdulcis, examination of, for a phytosterol (Ellis), 1918, 12, 176
Lactarius velleureus, enzyme from, oxidising (Robinson and McCance), 1925, 19, 252
(Onslow and Robinson), 1926, 20, 1141
oxidase system of (Robinson), 1924, 18, 545
Lactate, calcium, effect of, added to rat’s diet containing excess protein (Hartwell), 1922, 16, 96
Lactating animal, effect of ultra-violet light on mineral metabolism of (Orr, Magee and Henderson), 1925, 19, 569
Lactating rats, relation of protein to vitamin B in diet of (Hartwell), 1924, 18, 785
Lactation, cessation of, effect of, on creatine excretion in the goat (Orr), 1918, 12, 225
effect of irradiation during (Henderson and Magee), 1926, 20, 363
of rats on oats diet (Hartwell), 1926, 20, 754
Lactic acid, action of yeast on (Hoffert), 1926, 20, 358
and brain glycogen, relationship of (Holmes and Holmes), 1926, 20, 1196
as a possible intermediate product of alcoholic fermentation (Lebedev), 1917, 11, 189
as hydrogen donor, in presence of B. coli and methylene blue (Quastel and Whatham), 1926, 19, 552
content of plain muscle under various conditions (Evans), 1925, 19, 1115
effect of, on respiration of washed muscle and “acetoned” yeast (Holden), 1924, 18, 539
formation of, from glycogen in chopped muscle (Foster and Moyle), 1921, 15, 672, 677
formation of, from hexosephosphate in muscle (Foster and Moyle), 1921, 15, 678, 680
formation of, in chopped muscle, pancreatic factor inhibiting (Foster and Woodrow), 1924, 18, 562
formation of, in plain muscle, effect of arsenates, acetylcholine and histamine on (Evans), 1926, 20, 899
formation of, in plain muscle, effect of caffeine on (Evans), 1926, 20, 893
growth and respiratory exchange of B. coli communis on (Stephenson and Whetham), 1924, 18, 502
in acetoacetamide butyl alcohol fermentation (Reilly, Hickenbottom, Henley and Thayer), 1920, 14, 229
of brain, blood-sugar level and (Holmes and Holmes), 1925, 19, 836
of brain, resting values of, in normal and insulin rabbits (Holmes and Holmes), 1925, 19, 498
of non-irritable muscle (Foster and Moyle), 1921, 15, 338; (Edsall), 1926, 20, 572
oxidation of (Harrison and Thurlow), 1926, 20, 222
oxidation of, by muscle (Handovsky), 1926, 20, 1115
oxidation of, by washed normal and cancer tissues (Fleisch), 1924, 18, 301

INDEX OF SUBJECTS

73
Lactic acid, oxidation of, effect of p-phenylene-diamine on (Handovsky), 1926, 20, 1118
thiophen test for (Fearn), 1918, 12, 179
Lactose, fat content of yeast uninfluenced by (Smalley MacLean and Hoflect), 1923, 17, 727
urinary indoxyl and ethereal sulphates produced by feeding (Distaso and Sugden), 1919, 13, 156
Lactose tolerance (Goldblatt), 1925, 19, 955
Laevulose, see Fructose
Lamb, carmineine content of (Clifford), 1922, 16, 341
Laminaria, examination of, for a phytosterol (Ellis), 1918, 12, 173
Laminaria digitata, ethereal sulphate in (Haas and Russell-Wells), 1923, 17, 704
Lange test, preparation of colloidal gold for (Grey), 1924, 18, 448
Lard, nutritive value of (Drummond, Golding, Zilva and Coward), 1920, 14, 742
Latex, phytosteros in (Ellis), 1918, 12, 163
Lathyrus sinen8is, globulin of, action of plant proteases on (Blagoveschenkst), 1924, 18, 798
Laurhydroxamino acid (Lewis), 1926, 20, 1359
Lead, absorption and translocation of, by plants (Hessey), 1923, 17, 439
circulation of, in the organism (Lomholt), 1924, 18, 693
determination of, in plant tissues, by radioactivity (Hessey), 1923, 17, 439
determination of, in tissues (Lomholt), 1924, 18, 708
injections of, effect of, on pH of blood (Corran and Lewis), 1924, 18, 1362
toxicity of, in plants (Hessey), 1923, 17, 444
Leaf-cell cytoplasm, soluble proteins of (Chibnall and Grover), 1926, 20, 108
Leaf-protein metabolism in normal and abnormal runner bean plants (Chibnall), 1924, 18, 405
Leaf-proteins, effect of alkali on (Chibnall and Schryver), 1921, 15, 73
nitrogen content of (Chibnall and Schryver), 1921, 15, 62
relation of, to metabolism of plant (Chibnall and Schryver), 1921, 15, 62, 74
separation of (Chibnall and Schryver), 1921, 15, 64
Leaf-sap, pH of (Chibnall and Grover), 1926, 20, 110
Leaf-starch, possible mechanism for the synthesis of (Chapman), 1924, 18, 1398
Leaf-stomata, possible mechanism for controlling the opening of (Chapman), 1924, 18, 1397
Leaves, separation of nitrogenous substances of (Buston and Schryver), 1921, 15, 636
vitamin A content of (Coward), 1925, 19, 502, 505
Lechatin, absorption of phenol by (Cooper and Woodhouse), 1923, 17, 611
in relation to physical nature of cell membranes (Corran and Lewis), 1924, 18, 1364
oxidation of, with glutathione (Hopkins), 1925, 19, 793, 798, 816
precipitation of, by paraldehyde (Cooper), 1924, 18, 948
preparation of (Eggleston), 1926, 20, 396
relationship of, to growth cycle in crustacea (Paul and Sharpe), 1919, 13, 487
solubility of, in organic aldehydes (Cooper and Nicholas), 1925, 19, 535
Lechatin-like substances, autoxidisable, relationship of, to oxidases systems of higher plants (Robinson), 1924, 18, 545; (Onslow), 1924, 18, 549
Lecithinase of kidney (Kay), 1926, 20, 807
Lecithins, function of, in respiration in plants (Gallaher), 1923, 17, 515, 521
Leek, leaves of, carbohydrate enzymes of (Chapman), 1924, 18, 1391
Legumelin, isoelectric point of (Pearsall and Ewing), 1924, 18, 338
Legumae, dried, methods of cooking (Masters), 1918, 12, 231
See also Beans, Lentils and Peas
Legumin, isoelectric point of (Pearsall and Ewing), 1924, 18, 338
Lemma major, promotion of growth of, by organic manures (Mockeridge), 1920, 14, 432
Lemon, peroxidase in (Onslow), 1920, 14, 546
Lemon-juice, antiscorbutic factor of (Harden and Zilva), 1918, 12, 259
antiscorbutic factor of, effect of reaction on oxidation of (Zilva), 1923, 17, 410
antiscorbutic fraction of (Zilva), 1924, 18, 182, 632; (Zilva), 1925, 19, 586; (Daubney and Zilva), 1926, 20, 1055
antiscorbutic fraction of, inorganic constituents of (Daubney and Zilva), 1926, 20, 1056
antiscorbutic fraction of, precipitation of, by basic lead acetate (Zilva), 1925, 19, 589
antiscorbutic potency of, after removal of free citric acid (Harden and Zilva), 1918, 12, 260, 267
connection between amide-nitrogen and antiscorbutic activity of (Zilva), 1925, 19, 592
decitrated, antiscorbutic factor of, effect of heat in air and CO2 on (Zilva), 1922, 16, 46
differential dialysis of antiscorbutic factor in (Connell and Zilva), 1924, 18, 641
terminated decitrated, Pauly reaction of (Zilva), 1924, 18, 185
minimum dose of, for protection of guinea-pig from scurvy (Davey), 1921, 15, 86
preservation of vitamin C in (Davey), 1921, 15, 94
sodium and potassium citrates content of, with reference to its antiscorbutic potency (Harden and Zilva), 1918, 12, 270
<table>
<thead>
<tr>
<th>Subject</th>
<th>Page Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lemon-juice, yeast-growth produced by</td>
<td>(Wright), 1922, 16, 137</td>
</tr>
<tr>
<td>Lemon-rind, vitamin B of (Willimott), 1926, 20, 31</td>
<td>vitamin C of (Willimott and Wokes), 1926, 20, 1013</td>
</tr>
<tr>
<td>Lemons, chilled, preservation of vitamin C in</td>
<td>(Davey), 1921, 15, 102</td>
</tr>
<tr>
<td>Lentils, composition of (Ghose), 1922, 16, 39</td>
<td>germinated and soaked, antiscorbutic value of (Chick and Delf), 1919, 19, 204, 206, 213</td>
</tr>
<tr>
<td>vitamin B content of (Ghose), 1922, 16, 39</td>
<td>Leontopodium alpinum, see Edelweiss</td>
</tr>
<tr>
<td>Leucine, action of hypochlorite on</td>
<td>(Wright), 1926, 20, 550</td>
</tr>
<tr>
<td>as hydrogen donator, in presence of resting B. coli (Quastel and Whetham), 1925, 19, 646</td>
<td>oxidative deamination of, in vitro (Fearon and Montgomery), 1924, 19, 580</td>
</tr>
<tr>
<td>removal of, from hydrolysis products of caseinogen (Foreman), 1919, 13, 985</td>
<td>Leucine phosphotungstate (Drummond), 1918, 12, 11</td>
</tr>
<tr>
<td>Leucoanthocyanin, occurrence of, in vine leaves (Rosenheim), 1920, 14, 178</td>
<td>Leucocytes, human, activity of, during glycolysis (Dowds), 1926, 20, 1175</td>
</tr>
<tr>
<td>Leucosin, isoelectric point of (Pearsall and Ewing), 1924, 18, 338</td>
<td>iso-Leucovivale anhydride, obtained by acid hydrolysis of caseinogen (Dakin), 1918, 12, 314</td>
</tr>
<tr>
<td>Liesegang phenomenon (Hatschek), 1922, 16, 475, 477</td>
<td>Liesegang stratifications, abnormal, in gelatin (Hatschek), 1920, 14, 418</td>
</tr>
<tr>
<td>theory of formation of (Bradford), 1920, 14, 471</td>
<td>Light, action of, on blood (Harris), 1926, 20, 271</td>
</tr>
<tr>
<td>in supplemental content of fat-soluble factor (Goldblatt and Soames), 1923, 17, 622</td>
<td>Lignification, biochemical and histological studies on (Mehta), 1925, 19, 967</td>
</tr>
<tr>
<td>nature and properties of (Mehta), 1925, 19, 968, 984</td>
<td>physiological significance of, and determination of, in timbers (Mehta), 1925, 19, 958</td>
</tr>
<tr>
<td>Lignocellulose, constitution and occurrence of (Mehta), 1925, 19, 958, 961, 971</td>
<td>in stone cells of pear (Dorée and Barton-Wright), 1926, 20, 502, 505</td>
</tr>
<tr>
<td>Lime, extraction of pectin from fruit-rind of</td>
<td>(Harvy), 1924, 18, 283</td>
</tr>
<tr>
<td>peroxidase in the (Onslow), 1920, 14, 546</td>
<td>Lime content of hen’s egg, changes in, during development (Plimmer and Lowndes), 1924, 18, 1163</td>
</tr>
<tr>
<td>Lime-juice, effect of, on growth (Davey), 1921, 15, 93</td>
<td>minimum dose of, for protection of guinea-pig from scurvy (Davey), 1921, 15, 90</td>
</tr>
<tr>
<td>preservation of vitamin C in, (Davey), 1921, 15, 93</td>
<td>Linolenic acid, action of, on glutathione (Allott), 1926, 20, 960</td>
</tr>
<tr>
<td>Linoleic acid, identification of, in yeast-fat (Smedley MacLean and Thomas), 1920, 14, 483</td>
<td>Linseed oil, action of glutathione on (Allott), 1926, 20, 958</td>
</tr>
<tr>
<td>catalytic action of blood pigments on autoxidation of (Robinson), 1924, 18, 255</td>
<td>effect of, on calcium and phosphorus assimilation in growing pig (Huband, Godden and Richarda), 1923, 17, 707</td>
</tr>
<tr>
<td>oxygen uptake of, in presence of glutathione, effect of $p_H$ on (Hopkins), 1925, 19, 796</td>
<td>variability of oxygen uptake of (Allott), 1926, 20, 958</td>
</tr>
<tr>
<td>Lipase, action of trypsin on (Platt and Dawson), 1925, 19, 870</td>
<td>esterase action of (Platt and Dawson), 1925, 19, 869</td>
</tr>
<tr>
<td>hydrolysis of asymmetric esters by (Dawson, Platt and Cohen), 1926, 20, 533</td>
<td>pancreatic, determination of activity of (Platt and Dawson), 1925, 19, 861</td>
</tr>
<tr>
<td>pancreatic, dried active preparation of (Foster and Woodrow), 1924, 18, 563</td>
<td>pancreatic, factors influencing the action of (Platt and Dawson), 1925, 19, 860, 862, 866, 868, 872</td>
</tr>
<tr>
<td>pancreatic, preparation of (Platt and Dawson), 1925, 19, 860</td>
<td>Lipases of liver and pancreas, comparison of (Dawson, Platt and Cohen), 1926, 20, 536</td>
</tr>
<tr>
<td>Lipins, action of paraldehyde on (Cooper), 1924, 18, 948</td>
<td>peroxideo-forming property associated with (Gallagher), 1923, 17, 520</td>
</tr>
<tr>
<td>Lipochrome of adipose tissue in malignant disease (Currie), 1924, 18, 235</td>
<td>Lipochrome pigments and the fat-soluble vitamin (Drummond and Coward), 1920, 14, 668</td>
</tr>
<tr>
<td>Lipochromes, absorption spectra of (Coward), 1924, 18, 1119</td>
<td>extraction and determination of, from animal and plant tissues (Coward), 1924, 18, 1114</td>
</tr>
<tr>
<td>of etiolated wheat seedlings (Coward), 1924, 18, 1123</td>
<td>of plants, association of vitamin A with (Coward), 1923, 17, 145</td>
</tr>
<tr>
<td>of Sourina aurantius and Streptobirx corallinus (Reader), 1925, 19, 1040, 1043</td>
<td>Lipoids in the surface films of red corpuscles (Gough), 1924, 18, 208</td>
</tr>
<tr>
<td>oxidation of, under influence of thiol compounds (Hopkins), 1925, 19, 816</td>
<td>Liquid, intermolecular volume of a given amount of, law for variation of (Haldane), 1918, 12, 497</td>
</tr>
<tr>
<td>Liquids, re-statement of the gas laws and their extension to (Haldane), 1918, 12, 464–71</td>
<td>Liver, action of, on trypsin-stable residue of caseinogen (Luck), 1924, 18, 950</td>
</tr>
<tr>
<td>ammonia production by, in vitro (Luck), 1924, 18, 815</td>
<td>antithrombin in (Pickering and Hewitt), 1921, 15, 715</td>
</tr>
</tbody>
</table>
INDEX OF SUBJECTS

Liver, autolysing, increase of ammonia and urea in (McCance), 1924, 18, 488
elimination of mercury, bismuth and lead by (Lomholt), 1924, 18, 693
enzymes of, effect of oxygen on production of urea by (McCance), 1925, 19, 134
fat content of, in normal and insulin-treated mice (Dudley and Marrian), 1923, 17, 437
glycogen content of, effect of diet deficient in vitamin B on (Eggleton and Gross), 1925, 19, 655
glyoxalase content of, in avian beriberi (Findlay), 1921, 15, 105
mammalian, unsaturated hydrocarbon in (Channon and Marrian), 1926, 20, 409
of dead foetus, rate of autolysis of (Long and Parkes), 1924, 18, 803
of dog, hydrazine as a preventive of hippuric acid synthesis in (Lackner, Levinson and Morse), 1918, 12, 184
of herring, water and fat content of (Bruce), 1924, 18, 483
of rat, isolated, oxidation of ketone bodies by (Wigglesworth), 1924, 18, 1217
perfusion of, methods of control (Stewart), 1925, 19, 267
phosphoric esterase in (Robison and Soames), 1924, 18, 743
role of, in hippuric acid synthesis (Lackner, Levinson and Morse), 1918, 12, 184
storage of fat-soluble growth-promoting factor in (Goldblatt and Soames), 1923, 17, 447
synthesis of amide-like substance by (Luck), 1924, 18, 821
Liver oil, sulphuric acid test for (Harden and Robison), 1923, 17, 115
Logarithmic formula, validity of, applied to viscosity of solutions (Arrhenius), 1917, 11, 114
Lung-extract, action of, in blood coagulation (Pickering and Hewitt), 1921, 15, 721
Lupin, in bark of Zanthoxylum macrophyllum (Goodson), 1921, 15, 127
Lupinus luteus, globulin of, action of plant proteases on (Blagoveshenski), 1924, 18, 796
protease of (Blagoveshenski), 1924, 18, 797
Luteolin, isolation of glucoside of, from Galega officinalis (Barger and White), 1923, 17, 836
Lycopin, determination of, colorimetric (Connell), 1924, 18, 1127
separation of, from carotene (Coward), 1924, 18, 1119
Lysin, optimum temperature of the action of (Brownlee), 1924, 18, 16
Lysine, action of nitrous acid on (Plimmer), 1924, 18, 106
effect of bromination on (Plimmer and Phillips), 1924, 18, 314
effect on monkey of diet deficient in (Chick and Hume), 1920, 14, 135
in trypsin-stable residue of caseinogen (Luck), 1924, 18, 687
Lysine phosphotungstate (Drummond), 1918, 15, 14
resistance of erythrocytes to (Ponder), 1926, 20, 507
Lysocythine (Bolt and Heeres), 1922, 16, 763
Mafurreira oil, vitamin A deficiency of (Delf), 1924, 18, 94
Magnesium, balance, of growing pig (Richards, Godden and Husband), 1924, 18, 656
determination of, in blood-serum (Stewart and Archibald), 1925, 19, 484, 490
Magnesium chloride, production of acidosis by ingestion of (Haldane), 1925, 19, 249
Magnesium sulphate, coefficient of diffusion of, in gelatin and agar-agar (Stiles), 1921, 15, 631
Malaz, nitrogen and mineral content of (Richards, Godden and Husband), 1924, 18, 654
vitamin A in (Coward and Drummond), 1921, 15, 531, 538
Maleates, effect of, on growth of B. coli (Quastel, Stephenson and Whetham), 1925, 19, 316
Maleic acid, effect of resting B. coli on, in presence of ammonia (Quastel and Woolf), 1926, 20, 553
germicidal power of (Cooper and Edgar), 1926, 20, 1061
Malic, succinic and fumaric acids, equilibria existing between, in presence of resting bacteria (Quastel and Whetham), 1924, 18, 519
Malleic acid, activation of, bacterial (Quastel and Woolridge), 1925, 19, 656
dl-, effect of B. coli on, in presence of ammonia (Quastel and Woolf), 1926, 20, 553
Malic semi-aldehyde, formation of, from y-dithioxy-β-hydroxybutyric acid (Dakin), 1919, 13, 413
p-nitrophenylsazone of (Dakin), 1919, 13, 417
Malignant disease, lipochrome of adipose tissue in (Currie), 1924, 18, 235
Malonic acid, inhibition by, of reduction of methylene blue by B. proteus in presence of succinic acid (Quastel and Woolridge), 1925, 19, 656
Malt, dietetic value of, as determined by its vitamin content (Southgate), 1924, 18, 769
investigation of, for vitamins B and C (Harden and Zilva), 1924, 18, 1159
vitamin B in (Southgate), 1924, 18, 770
Malt extract, vitamin content of (Stammers), 1924, 18, 9
Maltase in germinated and ungerminated barley (Ling and Nanji), 1923, 17, 593
occurrence of, in mammalian blood (Compton), 1921, 15, 681
of dog's serum, influence of temperature on action of (Compton), 1922, 16, 460
of dog's serum under various conditions (Compton), 1924, 18, 173
of silkworm (Jameson and Atkins), 1921, 15, 211
Malted liquors, dietetic value of, as determined by their vitamin content (Southgate), 1924, 18, 769
Maltose, carbohydrate and fat metabolism of yeast influenced by (Smedley MacLean and Hoffert), 1923, 17, 731
INDEX OF SUBJECTS

Maltose, hydrolysis of, by barley maltase (Ling and Nanji), 1923, 17, 594
Mammalia, carnosine in (Clifford), 1921, 15, 733
Mammary gland, action of hypophysein, ergamine and adrenaline on secretion of (Bothlin, Plimmer and Husband), 1922, 16, 3
Mammary secretion (Hartwell), 1922, 16, 78, 824
and excess of various proteins (Hartwell), 1921, 15, 663
effect of diet on (Hartwell), 1921, 15, 140
effect of protein “excess” on (Hartwell), 1924, 18, 785
quantitative relation of vitamin B to protein in diet during (Hartwell), 1924, 18, 785
vitamin B and the lactating rat’s diet (Hartwell), 1925, 19, 1075
Man, maltase in blood of (Compton), 1921, 15, 683
Manganese, occurrence and determination of, in marine annelida (Berkeley), 1922, 16, 70
Mangold, oxidase of, separation of, into three constituents (Robinson), 1924, 18, 544
peroxide-forming property of tannin fraction from (Gallagher), 1923, 17, 519
Mangold wurzels, pectin from (Tutin), 1921, 15, 497
Mannans, enzymic hydrolysis of (Paton, Nanji and Ling), 1924, 18, 451
Mannitol, action of B. lactis aerogenes on (Kay), 1926, 20, 326
interaction of, with olein and stearin (Lapworth and Pearson), 1919, 13, 296
occurrence of, in “sick” cider (Tutin), 1925, 19, 418
Mannitol olive-oil, synthetic, value of, as a food (Halliburton, Drummond and Cannan), 1919, 13, 301
Mannose, action of urea on (Hynd), 1926, 20, 195, 209
from hydrolysis of ivory nut (Paton, Nanji and Ling), 1924, 18, 453
Mannotriose from ivory nut hydrolysates (Paton, Nanji and Ling), 1924, 18, 454
Manurial composts, occurrence of plant growth-promoting substances in (Mockeridge), 1920, 14, 43
Marigolds, food value of (Boock and Trevan), 1922, 16, 780
Marmite, removal of purines and amino-acids from (Stewart), 1925, 19, 1102
vitamin B value of, as compared with cerea (Plimmer and Rosedale), 1923, 17, 774
Mastic particles (Bradford), 1921, 15, 561
Mealworm, tyrosinase from (Raper and Speakman), 1926, 20, 70; (Raper), 1926, 20, 737
Meat, carnosine content of (Clifford), 1922, 16, 341
effect of cold storage on (Clifford), 1922, 16, 342; 1925, 19, 998
effect of, on mammary secretion (Hartwell), 1921, 15, 149, 361
Meat extract, effect of, on mammary secretion (Hartwell), 1921, 15, 147, 150, 154
Meat extractives, effect of, on protein metabolism (Wilson), 1926, 20, 79
Medicago sativa, pNH of leaf-sap of (Chibnall and Grover), 1926, 20, 112
Medlar, oxidising enzymes of (Onslow), 1921, 15, 115
Melanogaster galata, pigment of, in Dactyliis glomerata (Thomson), 1926, 20, 1026
pigment of wings of (Thomson), 1926, 20, 73
Melanin, extraction of, from skin (Young), 1921, 15, 118
formation of, from tyrosine (Raper and Wormall), 1925, 19, 80
intermediate compounds in the formation of, from tyrosine (Raper and Wormall), 1923, 17, 460
of skin, action of alkali on (Young), 1921, 15, 121
Melanophore stimulant of posterior lobe of pituitary (Hogben and Winton), 1922, 16, 619
of posterior lobe of pituitary, phyletic distribution of (Hogben and Winton), 1922, 16, 628
Melon, oxidising enzymes of (Onslow), 1921, 15, 116
Melting points (Haldane), 1918, 12, 491
Membrane equilibrium, Donnan’s theory of, application of, to osmotic pressure of haemoglobin (Wilson), 1925, 19, 80
Membranes, foetal, rate of autolysis of, after death of foetus (Long and Parkes), 1924, 18, 802
for dialysis, graded, preparation of (Brown), 1917, 11, 40, 42
semipermeable, structures in elastic gels caused by formation of (Hatschek), 1922, 16, 475
Mereapturic acid formation in the dog (Hele), 1924, 18, 586; (Coombs and Hele), 1926, 20, 606
Mercurialis perennis, blue pigment of, and chromogen in (Haas and Hill), 1925, 19, 233, 230
electrode potentials of chromogen of (Cannan), 1926, 20, 927
Mercury, bactericidal action of some organic compounds of (Henry, Sharp and Brown), 1925, 19, 513
circulation of, in the organism (Lomholt), 1924, 18, 693
determination of, in tissues (Lomholt), 1924, 18, 694
Mesacondic acid, germicidal power of (Cooper and Edgar), 1926, 20, 1061
Mesochlotoporus Taylori, occurrence and determination of manganese in tube and tissues of (Berkeley), 1922, 16, 70
Mesopilus germanica, oxidising enzymes of (Onslow), 1921, 15, 115
Metabolism, aerobic and anaerobic, of common cockroach (Davis and Slater), 1926, 20, 1167
anaerobic, thermal study of a possible source of energy in (Davis, Slater and Smith), 1926, 20, 1155
and specific dynamic action of amino-acids, relation between (Seth and Luck), 1925, 19, 366
and the sexual glands (Korenchevsky and Carr), 1925, 19, 773
Metabolism, basal, of bacteria, determination of (Callow), 1924, 18, 507
calcium and creatine, effects of parathyroid feeding on (Woodman), 1925, 19, 595
calcium and fat, relation of, in atrophic infants (Hickman), 1924, 18, 925
calcium and phosphorus, effect of irradiation and diet on (Henderson), 1925, 19, 52
calcium and phosphorus, of the lactating animal, effect of ultra-violet light on (Henderson and Magee), 1926, 20, 363
calcium and phosphorus, of vitamin A-deficient rats, effect of ultra-violet irradiation on (Webster and Hill), 1924, 18, 344
calcium, phosphorus and nitrogen, of the young pig, effect of diets of fresh and treated cow's milk on (Magee and Harvey), 1926, 20, 885
carbohydrate (Hewitt), 1924, 18, 161; (Kermack, Lambie and Slater), 1926, 20, 416; (Anderson and Carruthers), 1926, 20, 556
carbohydrate and fat, of yeast (Smedley MacLean and Hoffert), 1924, 18, 1273; 1926, 20, 343
carbohydrate, intermediary, glyoxalase content of rabbit's muscle (Dudley), 1926, 20, 314
carbohydrate, of brain (Hollmol and Holmes), 1925, 19, 899; 1926, 20, 1196
carbohydrate, of muscle and pancreas, relation between (Foster and Woodrow), 1924, 18, 526; (Foster), 1925, 19, 757
carbohydrate, of silkworm (Jameson and Atkins), 1921, 15, 212
change in, during work (Krogh and Lindhard), 1920, 14, 357
creatinine and uric acid (Zwanesenstein), 1926, 20, 743
fat, of yeast, effect of phosphates on (Smedley MacLean and Hoffert), 1924, 18, 1274
fat, rôle of fat-soluble factor in (Drummond), 1919, 13, 95
gaseous, apparatus for graphic recording of (Hagedorn), 1924, 18, 1301
gaseous, of mussel, effect of reproductive cycle on (Bruce), 1926, 20, 843
in Singapore (Campbell), 1920, 14, 603
mineral and nitrogen, of growing pig (Richards, Husband and Husband), 1924, 18, 651
mineral and nitrogen, of growing pig, effect of variations in sodium-potassium ratio on (Richards, Gordon and Husband), 1924, 18, 651, 653
mineral, of lactating animal, effect of ultra-violet light on (Örr, Magee and Henderson), 1925, 19, 569
nitrogen, connection of vitamin B with (Hartwell), 1924, 19, 793
nitrogen, of higher plants (Chibnall and Schryver), 1921, 15, 60; (Chibnall), 1922, 16, 344, 599, 608; 1924, 18, 387, 395, 405
nitrogen, of normal, castrated and thyroidectomised rabbits, effect of injections of emulsions of testes and prostate and of insulin-like testicular extracts upon (Korenchevsky and Carr), 1925, 19, 773
Metabolism, nitrogen, of rate, effect of water-soluble accessory deficiency on (Drummond), 1918, 12, 25–8; 41
nitrogen, of S. cerevisiae (Lampitt), 1919, 13, 459
nitrogen, of young pig, effect of diets of fresh and treated cow's milk on (Magee and Harvey), 1926, 20, 885
nitrogen, thyroid gland and (Korenchevsky and Carr), 1925, 19, 780
normal, of billy goat (Peters), 1920, 14, 697
of arginine and histidine (Stewart), 1925, 19, 266, 1101
of Ascaris lumbricoides, nature of (Slater), 1925, 19, 604
of B. coli communis, effect of oxygen on (Stephenson and Whetman), 1924, 18, 498
of the brain (Hollmol and Holmes), 1925, 19, 492
phosphate, in fatigued mammalian muscle (Andrews), 1925, 19, 242
phosphorus, rôle of insulin in (Kołodziejska and Funk), 1926, 20, 392
protein, effect of water ingestion on (Wilson), 1926, 20, 80, 83
protein, relation of vitamin B to (Hartwell), 1924, 18, 793
protein, variations in, as indicated by sulphur excretion (Craig and Harington), 1924, 18, 85
standard and respiratory quotient, correlation between (Krogh and Lindhard), 1920, 14, 290
standard, statistical treatment of determinations of (Krogh and Lindhard), 1920, 14, 346
sulphur and nitrogen, relation between (Wilson), 1925, 19, 322; 1926, 20, 76
sulphur, of the dog (Hele), 1924, 18, 110, 588; (Callow and Hele), 1926, 20, 598;
(Coombs and Hele), 1926, 20, 606
Metabolism experiments, significance of fermentation of cellulose in paunch of ox for (Krogh and Schmit-Jensen), 1920, 14, 686
Metallic oxides, effect of, on oxidation of guaiaconic acid and of indophenol mixture (Gallagher), 1924, 18, 34
Metallo-haematochromophorins (Milroy), 1918, 12, 320, 332
haemoglobin in relation to (Hill), 1925, 19, 341
Methaemoglobin as oxidative catalyst (Robinson), 1924, 18, 255
equilibrium of, with acid haematin (Hill and Holden), 1926, 20, 1330
oxygen content of (Roaf and Smart), 1923, 17, 579
reduction of, by glutathione (Handovsky), 1926, 20, 1118
Methane, determination of, by micro-analysis (Schmit-Jensen), 1920, 14, 4
4-(4'-Methoxyphenoxy)benzaldehyde (Hartington), 1926, 20, 310
4-(4-Methoxyphenyl)benzalhydantoin (Hartington), 1926, 20, 312
4-Methoxyphenylenzene (Hartington), 1926, 20, 310
INDEX OF SUBJECTS

4-(4'-Methoxyphenoxy)cinnamic acid (Harington), 1926, 20, 311
4-(4'-Methoxyphenoxy)toluene (Harington), 1926, 20, 309
Methyl alcohol, production of, from pectin (Tutin), 1921, 15, 496, 497
Methylamine, “fuming” action of, on oak (Tinkler), 1921, 15, 481
Methylation of amino-compounds by formaldehyde (Werner), 1917, 11, 318
Methylcarbamidohordenine hydrochloride (Stedman), 1926, 20, 727
Methylcarbamido-8-hydroxyquinoline (Stedman), 1926, 20, 728
α-Methylcinnamic acid, fate of, in the body (Kay and Raper), 1924, 18, 153
Methylene blue as hydrogen acceptor (Quastel), 1926, 20, 176
decoloration of, by hexahydric alcohols and sugars in presence of B. prodigiosus, B. proteus and B. faecalis alkaligenes (Quastel and Wooldridge), 1925, 18, 658
effect of, on fermentation of glucose and fructose in presence of phosphate and arsenate (Harden and Henley), 1921, 15, 175
effect of, on fermentation of glucose by yeast preparations (Harden and Henley), 1920, 14, 642
electrode potentials of (Kodama), 1926, 20, 1100
reduction of, by “beriberi” tissues (Drummond and Marrian), 1926, 20, 1230
reduction of, by glucose with a protein derivative (Borsook and Wasteneys), 1925, 19, 1128
reduction of, by normal and cancer tissues (Fleisch), 1924, 18, 297
reduction of, by plain and striated muscle (Taubura), 1925, 19, 397
reduction of, by succinic acid in presence of B. coli (Quastel), 1926, 20, 169
reduction of, by succinic, fumaric and malic acids, in presence of B. coli and B. pyocyaneus (Quastel and Whetham), 1924, 15, 619
reduction of, by tissue extracts (Wishart), 1923, 17, 103
reduction of, by various compounds, in presence of B. coli (Quastel and Whetham), 1925, 19, 521, 524–6, 645–9
reduction of, by washed plain muscle, effect of salts and cyanide on the, in presence of succinate (Taubura), 1925, 19, 399
reduction of, in presence of substrate of xanthine oxidase (Dixon), 1926, 20, 704, 709, 715
reduction of, inhibition of, by cyclo-hexanol and cyclo-hexene (Quastel and Whetham), 1925, 19, 529
velocity of reaction with washed muscle and hydrogen donators (Wishart), 1923, 17, 108
Methyl esters, from butter fat, preparation and fractional distillation of (Crowther and Williams), 1917, 11, 147
Methylglyoxal as precursor of lactic acid in muscle (Foster), 1925, 19, 764
Methylguanidine phosphotungstate (Drummond), 1918, 12, 20
Methyliquidine plicata, solubility of (Greenwald), 1926, 20, 666
Methyl-cyclo-hexanehexitool (mytilitool) (Daniel and Doran), 1926, 20, 680
2-Methylindole-3-aldehyde (Barger and Ewins), 1917, 11, 59
P-2-Methylindolyl-α-benzoalaminacrylic acid (Barger and Ewins), 1917, 11, 60
N-Methylputrescine, mono- and dibenzoyl compounds of (Dudley and Thorpe), 1925, 19, 846, 847
synthesis and salts of (Dudley and Thorpe), 1925, 19, 845
Pr-2-Methyltryptophan, behaviour of, in the dog (Barger and Ewins), 1917, 11, 62
racemic, synthesis of (Barger and Ewins), 1917, 11, 58, 61
Mierometer syringe (Trevan), 1925, 19, 1111
Microplankton, seasonal variation in the seawater content of (Butler and Coste), 1923, 17, 55
Microspermiometer, modified form of (Adam), 1929, 14, 679
Microtitration (Rehberg), 1925, 19, 270
of bicarbonate in plasma (Lepper and Martin), 1925, 19, 573
of urea in 0.1 cc of blood (Rehberg), 1925, 19, 278
Milk, action of hypochlorite on (Wright), 1926, 20, 524
action of rennet and of heat on (Wright), 1924, 18, 245
albumin of (Woodman), 1921, 15, 194
amylosine in (Sato), 1920, 14, 129
and growth-promoting vitamin (Stammers), 1922, 16, 659
and orange-juice, raw, as antiscorbutic (Wright), 1921, 15, 695
antirachitic value of (Chick and Roscoe), 1926, 20, 641, 642
antiscorbutic value of (Chick, Hume and Skelton), 1918, 12, 131
antiscorbutic value of, for monkeys (Hume), 1921, 15, 164
as source of water-soluble vitamin (Osborne and Mendel), 1923, 16, 363
autochlorved, effect of addition of, to scorbutic diet of guinea-pigs (Delf and Skelton), 1918, 12, 458–62
calcium content of, effect of heat and aeration on (Korenchevsky and Carr), 1923, 17, 191
calcium content of, effect of heat on (Magee and Harvey), 1926, 20, 875
colloids of, effect of heat on (Magee and Harvey), 1926, 20, 880
condensation of, loss of vitamin A in (Hume), 1921, 15, 165
condensed, sweetened, antiscorbutic value of, for monkeys (Hume), 1921, 15, 163
condensed, sweetened, use of, in infant feeding (Hume), 1921, 15, 165
cow’s and goat’s, consequence of exclusive nutrition with (Brouwer), 1926, 20, 105
cow’s, composition of, on varying diets (Chick and Roscoe), 1926, 20, 636
cow’s, sterol content of (Fox and Gardner), 1923, 17, 94
determination of sterols in (Gardner and Williams), 1921, 15, 373
Milk, determination of vitamin A in (Drummond, Coward and Watson), 1921, 15, 540

digestibility of, effect of heat on (Magee and Harvey), 1926, 20, 581

dried and fresh, antiscorbutic values of (Jephcott and Bacharach), 1921, 15, 135

dried, antiscorbutic value of (Chick, Hume and Skelton), 1918, 12, 136; (Jephcott and Bacharach), 1921, 15, 129

dried, antiscorbutic value of, effect of method of drying on (Jephcott and Bacharach), 1921, 15, 137

dried, antiscorbutic value of summer and winter samples of (Jephcott and Bacharach), 1921, 15, 135, 138

dried, as diet of infants (Chick, Hume and Skelton), 1918, 12, 150; (Jephcott and Bacharach), 1921, 15, 138

dried, growth-promoting properties of (Hume), 1921, 15, 41

dried, vitamin B in (Hartwell), 1925, 19, 228

effect of, added to rats' diet containing excess protein (Hartwell), 1922, 16, 93

effect of diet and management of the cow upon deposition of calcium in rats receiving a daily ration of (Boas and Chick), 1924, 18, 433

effect of diet and sunlight upon vitamins A and D content of (Luce), 1924, 18, 716; (Chick and Roscoe), 1926, 20, 632

effect of diets of fresh and treated, on the calcium, phosphorus and nitrogen metabolism of the young pig (Magee and Harvey), 1926, 20, 885

effect of heat and aeration on growth-promoting and antirachitic properties of (Korenchevsky and Carr), 1923, 17, 197

effect of heat on (Magee and Harvey), 1926, 20, 873, 885

effect of, on mammary secretion (Hartwell), 1921, 15, 149

effect of sunlight upon growth-promoting and antirachitic properties of (Luce), 1924, 18, 1279

factors influencing vitamin A content of (Drummond, Coward and Watson), 1921, 15, 540

fat content of, relation of cholesterol content to (Fox and Gardner), 1923, 17, 98

fat-soluble vitamins of, effect of cow's diet on (Golding, Soames and Zilva), 1926, 20, 130

“first runnings,” analysis of butter-fat from (Crowther and Hynd), 1917, 11, 154

fresh, antiscorbutic value of (Chick, Hume and Skelton), 1918, 12, 131, 138

fresh, dry and heated, relative antiscorbutic value of (Barnes and Hume), 1919, 13, 306

goat's, analysis of (Rothlin, Plimmer and Husband), 1922, 16, 5

goat's, non-protein nitrogen in (Taylor), 1922, 16, 611

growth-promoting properties of (Hume), 1921, 15, 40

growth-promoting value of, effect of irradiation of diet and of animals on (Chick and Roscoe), 1926, 20, 637, 640, 648

heated, antiscorbutic value of (Chick, Hume and Skelton), 1918, 12, 136

Milk, heated, use of, in infant feeding and occurrence of infantile scurvy (Chick, Hume and Skelton), 1918, 12, 149

human, cholesterol content of (Fox and Gardner), 1924, 18, 127

human, cholesterol content of, variation of, during milking (Fox and Gardner), 1924, 18, 133

human, mineral content of, in normal and rachitic families (Telfer), 1924, 18, 809

non-cholesterol portion of unsaponifiable matter of (Fox and Gardner), 1923, 17, 100

phosphoric esters of (Kay), 1925, 19, 435, 443

phosphoric esters of, hydrolysis of, by bone enzymes (Kay), 1925, 19, 439–41

phosphorus compounds of (Rimington and Kay), 1926, 20, 777

phosphorus compounds of, organic acid-soluble (Kay), 1925, 19, 433

preparations, absorption of calcium by atrophic infants fed on (Hickmans), 1924, 18, 923

prevention of rickets in rats by (Boas and Chick), 1924, 18, 433

reducing and oxidising reactions in (Haas and Hill), 1923, 17, 672; (Haas and Lee), 1924, 18, 614

ropy, acidity of (Freear and Venn), 1920, 14, 422

sow's, diet resembling (Zilva, Golding, Drummond and Coward), 1921, 15, 429

summer, effect of, in diet (Smith and Chick), 1926, 20, 135

unsuitability of, as diet for guinea-pigs (Jephcott and Bacharach), 1921, 15, 129

value of, in diet of lactating rats (Hartwell), 1922, 16, 104

vitamin A content of, effect of breed of cow on (Drummond, Coward and Watson), 1921, 15, 541

vitamin content of (Hopkins), 1920, 14, 721

winter, effect of, in diet (Smith and Chick), 1926, 20, 134

winter, vitamin content of (Chick and Roscoe), 1926, 20, 638, 641

xanthine oxidase from, separation of (Dixon and Kodama), 1926, 20, 1105

yield and composition of, effect of administration of certain salts on (Mattick and Wright), 1925, 19, 915

Milk-coagulating power of pancreatic extracts, effect of heat and age on (Edie), 1921, 15, 503, 505

Milk-diet, effect of, on skeleton (Korenchevsky and Carr), 1923, 17, 187

Milk-fat, cow's and sheep's, distribution of fatty acids in (Crowther and Hynd), 1917, 11, 139

effect of diet on (Sheehy), 1921, 15, 706

origin of, and relation of, to metabolism of phosphorus (Sheehy), 1921, 15, 703

variations in caseinogen and phosphorus content of (Sheehy), 1921, 15, 708

Milk-peroxidase, observations on (Haas and Lee), 1924, 18, 614

Milk-secretion, relation of, to age, diet and weight (Hartwell), 1921, 15, 145

Milks, dried and evaporated, comparison of, by a dietetic method (Hartwell), 1925, 19, 226
INDEX OF SUBJECTS

Millon’s reaction, products of protein hydrolysis other than tyrosine giving (Engelant), 1925, 19, 890

Mineral content of human milk in normal and rachitic families (Telfer), 1924, 18, 809

Miosis and chemical constitution of urethanes (Stedman), 1926, 20, 719, 730

Mitral stenosis, sulphur excretion in (Craig and Harington), 1924, 18, 89

Molecular weight, application to caseinogen of Barger’s method for determining (Yama-kami), 1920, 14, 522

Barger’s method of determining (Yama-kami), 1920, 14, 103

Mollusca, carnosine in (Clifford), 1921, 15, 729 vitamin A in (Jameson, Drummond and Coward), 1922, 18, 484

Monkey, antiscorbutic requirements of the (Harden and Zilva), 1920, 14, 131 antiscorbutic requirements of, supplied by milk (Barnes and Hume), 1919, 13, 313 antiscorbutic value of sweetened condensed milk for the (Hume), 1921, 15, 103

pettegur in (Theuck and Hum), 1920, 14, 135

Monobenzoxy-N-methylputrescine (Dudley and Thorpe), 1925, 19, 846

Monobenzoxypentruscine, hydrochloride and pi-crate of (Dudley and Thorpe), 1925, 19, 547

Monocotyledons, oxygenase in (Onslow), 1921, 15, 108

starch-free, carbohydrate enzymes of some (Chapman), 1924, 18, 1388

Morphone content of opium poppy (Annett), 1920, 14, 618

Morus nigra, oxidising enzymes of (Onslow), 1921, 15, 117

Mucosa, gastric, presence of urease in (Luck), 1924, 18, 826

gastric and intestinal, and ammonia production in vivo (Luck), 1924, 18, 814, 816

Muxberry, oxidising enzymes of (Onslow), 1921, 15, 117

Musa sapientis, oxidase and peroxidase in (Onslow), 1920, 14, 545

Muscle, amphibian, effect of exposure to low temperature on properties of (Foster and Moyle), 1921, 15, 334

amphibian, oxygen consumption of (Adam), 1921, 15, 358

carbohydrate and lactic acid in, interconversion of (Foster and Moyle), 1921, 15, 672

carbohydrate metabolism of, and pancreas, relation between (Foster and Woodrow), 1924, 18, 562; (Foster), 1925, 19, 757

carnosine content of (Clifford), 1921, 15, 405; (Hunter), 1921, 15, 694; 1922, 16, 553

carnosine content of, and iminazole excretion in urine (Hunter), 1925, 19, 34

carnosine content of, effect of cold storage on (Clifford), 1922, 16, 341

cat, carnosine in (Hunter), 1924, 18, 408; 1925, 19, 35

cat, determination of phosphorus compounds in (Cuthbertson), 1925, 19, 898

cat, normal and decerebrate, distribution of carnosine in (Mitsuda), 1923, 17, 630

Muscle, cat, resting and fatigued, distribution of phosphorus and fat in (Cuthbertson), 1925, 19, 896

chopped, lactic acid production by, pancreatic factor inhibiting (Foster and Woodrow), 1924, 18, 562

cod, autolysis of (Clifford), 1925, 19, 1

cod, “drip from” (Clifford), 1925, 19, 4
cod, effect of heat on amino-nitrogen content of suspension in water of minced (Clifford), 1924, 18, 671
cod, heat-stable proteolytic catalyst present in (Clifford), 1924, 18, 669
cod, protein from (Clifford), 1925, 19, 5

conductivity of, compared with that of sodium chloride solution (Hartree and Hill), 1921, 15, 380

conductivity of, effect of temperature on (Hartree and Hill), 1921, 15, 380

diamino-acid content of (Rosedale), 1922, 16, 27

dog, succinic acid in, formation of (Moyle), 1924, 18, 355

effect of exposure to low temperatures on (Foster and Moyle), 1921, 15, 336

fatigued, recovery processes in (Foster and Moyle), 1921, 15, 676

formation of lactic acid from hexosephosphate by (Foster and Moyle), 1921, 15, 678, 680

frog, specific electrical resistance of (Hartree and Hill), 1921, 15, 379

frog, succinic acid in, formation of (Moyle), 1924, 18, 355

frog, washed, effect of yeast extract on oxygen consumption of (Holden), 1923, 17, 361

glycogen content of, in normal and insulin-treated mice (Dudley and Marrian), 1923, 17, 437

herring, water, fat, protein and ash content of (Bruce), 1924, 18, 477

hippopotamus, cholesterol content of (Gardner), 1924, 18, 782

human, unsaponifiable matter of (Gardner), 1921, 15, 268

insulin and glucose, interaction of (Anderson and Carruthers), 1926, 20, 556

mammalian, fatigued, phosphate metabolism of (Andrews), 1925, 19, 242

mammalian voluntary, acid-base exchange in (Andrews, Beatie and Milroy), 1924, 18, 993

non-irritable, effect of calcium chloride on phosphate of (Edsall), 1926, 20, 573

non-irritable, lactacidogen and lactic acid of (Edsall), 1926, 20, 572

non-irritable, phosphates in (Edsall), 1926, 20, 569

non-irritable, properties of (Foster and Moyle), 1921, 15, 338

ox, succinic acid in, formation of (Moyle), 1924, 18, 355

oxygen uptake of (Handovsky), 1926, 20, 1115

oxygen uptake of, effect of caffeine on (Evans), 1926, 20, 897

oxygen uptake of, effect of haemoglobin on (Handovsky), 1926, 20, 1117

Bioch.
INDEX OF SUBJECTS

Muscle, phosphate in, effect of glycogen plus fluoride on (Andrews), 1925, 19, 244 phosphorius esterase in (Robison and Soames), 1924, 18, 743 phosphorus compounds of, effect of insulin on distribution of (Kay and Robison), 1924, 18, 1139 plain and striated, reducing properties of (Tsubura), 1925, 19, 397 plain, carbohydrate content of (Evans), 1925, 19, 1123 plain, lactic acid content of, under various conditions (Evans), 1925, 19, 1115 plain, lactic acid formed by, carbohydrate as origin of (Evans), 1925, 19, 1124 plain, physiology of (Evans), 1925, 19, 1115; 1926, 20, 893 plain, resting, relation between oxygen requirement of and lactic acid oxidised by (Evans), 1925, 19, 1123 rabbit, glyoxalose of (Dudley), 1926, 20, 314 rabbit, succinic acid in (Moyle), 1924, 18, 356 red and white, succinic acid formation in (Moyle), 1924, 18, 356 respiration rate of (Adam), 1921, 15, 358 resting, phosphates in (Andrews), 1925, 19, 242 sheep, succinic acid in, formation of (Moyle), 1924, 18, 355 skeletal and cardiac, carnosine in (Clifford), 1921, 15, 728 skeletal, nucleoprotein of (Cuthbertson), 1925, 19, 901 succinic acid in (Moyle), 1924, 18, 351 surviving, respiration of, part of alcoholic co-enzyme in (Holden), 1924, 18, 535 utilisation of glucose and dihydroxyacetone by (Kermack, Lambie and Slater), 1926, 20, 490 washed, oxygen uptake of, with glutathione (Hopkins), 1925, 19, 790 washed, thermostable residue of, oxygen uptake of, with glutathione, effect of phosphate concentration on (Hopkins), 1925, 19, 790 Muscle-enzyme, action of, on organic phosphorus compounds of blood (Kay and Robison), 1924, 18, 1139 action on hexosephosphoric esters (Kay and Robison), 1924, 18, 1140 Muscle-extract, determination of carnosine in (Hunter), 1922, 16, 640 Muscle-juice as a base carrier (Andrews, Beattie and Milroy), 1924, 18, 993 Musuelamine, identity of, with spermine (Dudley and Rosenheim), 1925, 19, 1034 Muscular energy, relative value of fat and carbohydrate as sources of (Krogh and Lindhard), 1920, 18, 290 Muscular work, effect of, on composition of urine (Campbell and Webster), 1922, 16, 106 Mushrooms, vitamin A in (Coward and Drummond), 1921, 15, 535, 538 Mussel, chemical constituents of (Daniel and Drummond), 1920, 20, 676 gaseous metabolism of, effect of temperature on (Bruce), 1926, 20, 839 Mussel, glycogen from, preparation of (Slater), 1924, 18, 623 metabolic curve, annual (Bruce), 1926, 20, 836 oxygen uptake of (Bruce), 1926, 20, 841 respiratory exchange of (Bruce), 1926, 20, 829, 831 shell, growth of (Bruce), 1926, 20, 837 Mustard-seed oil, vitamin A content of (Ghose), 1922, 16, 37 Mutton, autolysis of (Fearon and Foster), 1922, 16, 564 carnosine content of (Clifford), 1922, 16, 341 effect of cold storage on (Clifford), 1925, 19, 998 protein, analysis of (Rosedale), 1922, 16, 28, 29 Myristic acid, oxidation of, with hydrogen peroxide (Clutterbuck and Raper), 1925, 19, 389 Mytilitol, constitution of (Daniel and Doran), 1926, 20, 680 of Mytilus edulis (Daniel and Doran), 1926, 20, 678 of Mytilus edulis, functions of (Daniel and Doran), 1926, 20, 681 Mytilus edulis, see Mussel Myxoedema, sulphur excretion in (Craig and Harington), 1924, 18, 89

1-Naphthol-2-sulphonic-acid-indophenol, electrode potentials of (Kodama), 1926, 20, 1101 Narcosis, theory of (Haynes), 1921, 15, 458 Neoplasms, inhibition of growth by calcium ions with reference to growth of (Cramer), 1918, 12, 219 Nephelometric determination of fatty acids in faeces (Sharpe), 1917, 11, 97 of quinine in blood (Acton and King), 1921, 15, 53 Nephraxis, ammonia content of blood in (Russell), 1923, 17, 72 balance of anions and kations in plasma in (Marrack), 1923, 17, 240 parenchymatous, cholesterol of urine in (Gardner and Gaithsborough), 1925, 19, 670 Nerve, amphibian, oxygen consumption of (Adam), 1921, 15, 358, 360 Nesslerisation, avoidance of turbidity during (Stanford), 1923, 17, 844; (Folin), 1924, 18, 460 Neuridine, identity of, with spermine (Dudley and Rosenheim), 1925, 19, 1034 Neutral red, as indicator in the determination of hydrogen ion concentration of sera, use of (Homer), 1917, 11, 284 Nicotine and ammonia, separation of (Fodor and Reifenberg), 1925, 19, 827 enzymic production of volatile products from, by tobacco-leaf extracts (Fodor and Reifenberg), 1925, 19, 830 Nicotinic acid phosphotungstate (Drummond), 1918, 12, 18 Nitella, isoelectric point of proteins from (Pearse and Ewing), 1924, 18, 337 Nitrate, bacterial activation of (Quastel and Woolridge), 1925, 19, 657
INDEX OF SUBJECTS

Nitrate, oxidation by, in presence of resting bacteria (Quastel, Stephenson and Whetham), 1925, 19, 306
purification of filter effluent and tank liquor in presence of (Cooper), 1921, 15, 514
reduction of, by milk (Haas and Hill), 1923, 17, 671
reduction of, by sewage tank liquor and filter effluent (Cooper), 1921, 15, 514
Nitrates, reduction of, in xanthine oxidase system (Dixon and Thurlow), 1924, 18, 989; (Dixon), 1926, 20, 710
Nitrite, oxidation of, by milk (Haas and Hill), 1923, 17, 675
oxidation of, by milk in presence of acetaldehyde, mechanism of (Haas and Lee), 1924, 18, 618
oxidation of, by milk-oxidase (Thurlow), 1925, 19, 175
oxidation of, in presence of catalase (Thurlow), 1925, 19, 181
oxidation of, in presence of cysteine or glutathione (Thurlow), 1925, 19, 182
reducing action of, in presence of B. coli (Quastel, Stephenson and Whetham), 1925, 19, 307
toxic effect of, on B. coli (Quastel, Stephenson and Whetham), 1925, 19, 313
p-Nitrobenzylthymalonic acid (Dawson, Platt and Cohen), 1926, 20, 534
Nitrogen, amide, determination of, in proteins (Pimmer and Rosedale), 1925, 19, 1005, 1011
amide, of caseinogen (Luck), 1924, 18, 679
amino- and total, of plant globulins (Blagoveschenski), 1924, 18, 797
amino-, of solutions and suspensions of proteins, effect of heat on (Clifford), 1924, 18, 669
amino-, soluble and total, of meat during cold storage (Clifford), 1925, 19, 999
and sulphur metabolism, relation between (Wilson), 1925, 19, 322; 1926, 20, 76
assimilation of, in growing pig, effect of potassium iodide on (Kelly), 1925, 19, 559
balance, of growing pig (Richards, Godden and Husband), 1924, 18, 656
determination of, accurate, in gas mixtures (Krogh), 1920, 14, 270
determination of, micro- (Schmit-Jensen), 1920, 14, 4
distribution of, in beer (Sharpe), 1917, 11, 101
distribution of, in caseinogen, gelatin and haemoglobin (Pimmer and Rosedale), 1925, 19, 1009
distribution of, in egg proteins (Pimmer and Rosedale), 1925, 19, 1015
distribution of, in leaves of runner bean (Chibnall), 1922, 18, 344
distribution of, in leaves of runner bean, dead (Chibnall), 1922, 16, 608
distribution of, in leaves of runner bean, effect of low temperature drying on (Chibnall), 1922, 16, 599
distribution of, in protein hydrolyses (Pimmer and Stephenson), 1924, 18, 323
distribution of, in urine, influence of fat and carbohydrate on (Cathcart), 1922, 16, 747
Nitrogen, distribution of, Van Slyke’s method of determination of (Pimmer and Rosedale), 1925, 19, 1004
excretion of, delay in (Wilson), 1925, 19, 325
humin, determination of, in proteins (Pimmer and Rosedale), 1925, 19, 1005, 1011
minimum expenditure of, in man (Martin and Robison), 1922, 16, 407
non-protein, in blood, determination of (Fonder), 1922, 16, 368
non-protein, in blood, micro-determination of (Kernaway), 1921, 15, 510
non-protein, in germinating seeds (Fodor and Reifenberg), 1925, 19, 191
non-protein, in goat’s milk (Taylor), 1922, 16, 611
storage of, in proteins (Wilson), 1925, 19, 326
urinary, after purgation (Burns), 1920, 14, 94
Nitrogen equilibrium in man (Martin and Robison), 1922, 16, 407, 410, 415
Nitrogen metabolism, see Metabolism, nitrogen
Nitrogen partition in urine of races in Singapore (Campbell), 1919, 13, 239
Nitrogen requirements of man, value of gelatin in relation to (Robison), 1922, 16, 111
Nitrogenous extracts of tumours (Drummond), 1917, 11, 246
Nitrogenous sugar derivatives and related compounds, action of nitrous acid on (Hynd and Macfarlane), 1926, 20, 1284
β-Nitropropionyl chloride (Barger and Tutin), 1918, 12, 403, 405
Nitroprusside reaction, a substance giving the, in skin and hair (Kaye), 1924, 18, 1289
bacterial production of compounds giving, in meat broth (McLeod and Gordon), 1924, 18, 937
of bacteria (Callow and Robinson), 1925, 19, 19, 22
do glutathione (Hopkins), 1921, 15, 288
of proteins (Hopkins), 1925, 19, 806
of sulphhydryl and disulphide compounds (Walker), 1925, 19, 1082
Nitroso-compounds, bactericidal action of, selective (Cooper and Forster), 1924, 18, 941
Nitrous acid, action of, on antineuritic substance in yeast (Peters), 1924, 18, 863
action of, on nitrogenous sugar derivatives and related compounds (Hynd and Macfarlane), 1926, 20, 1264
effect of, on production of ammonia and urea in autolysis (McCance), 1924, 18, 490
Nitzschia closterium (F.) minutissima, culture of, in artificial sea-water (Peach and Drummond), 1924, 18, 464
synthesis of vitamin A by (Jameson, Drummond and Coward), 1922, 16, 482
Nuclear-plasmic ratios in rats (Truszkowski), 1926, 20, 437, 441
in rats on purine and purine-free diets (Truszkowski), 1926, 20, 441
Nuclei, cell, inorganic iron in (Jones), 1920, 14, 656
Nucleic acid, growth-promoting properties of free bases of (Mockeridge), 1920, 14, 432
of Azotobacter, hydrolysis products of (Mockeridge), 1924, 18, 551
INDEX OF SUBJECTS

Nucleic acid, plant and animal, action of kidney phosphatase on (Kay), 1926, 20, 803
preparation of, from various sources (Clarke and Schryver), 1917, 11, 321

Nucleic acid derivatives, occurrence of, in nitrogen-fixing bacteria (Mockeridge), 1924, 18, 550

Nucleic acids, effect of feeding of, on uricolytic index of diabetic dogs (Langfeldt and Holmsen), 1925, 19, 724

Nucleoprotein of skeletal muscle (Cuthbertson), 1925, 19, 901

Nucleotides, plant, action of kidney phosphatase on (Kay), 1926, 20, 803

Nutrition, bacterial (Whitehead), 1924, 18, 829
deficient, effect of, on production of agglutinins, complement and amboceptor (Zilva), 1919, 13, 172
of rat, accessory factors in (Harden and Zilva), 1918, 12, 408
of rat, effect of water-soluble accessory factor on (Drummond), 1918, 12, 25
 rôle of antiscorbutic factor in (Drummond), 1919, 13, 77
 rôle of fat-soluble factor in (Drummond), 1919, 13, 95

Nuts, vitamin A of (Coward and Drummond), 1920, 14, 665

Oak, action of ammonia on, in presence and absence of oxygen (Tinkler), 1921, 15, 477
American white, hemicellulose of (O'Dwyer), 1923, 17, 501
brown and white, composition and properties of extracts of (Tinkler), 1921, 15, 483, 485
English, effect of prolonged heating on (Tinkler), 1921, 15, 484
“fumed” and natural brown (Tinkler), 1921, 15, 477
“fuming” action of methylamine and trimethylamine on (Tinkler), 1921, 15, 481, 482
nitrogen content of various kinds of (Tinkler), 1921, 15, 483
phlobaphen in (Tinkler), 1921, 15, 484
relation between tannin content of, and coloration produced during “fuming” of (Tinkler), 1921, 15, 489

Oatmeal, nitrogen and mineral content of (Richards, Godden and Husband), 1924, 18, 654

Oatmeal protein, dietetic value of (Hartwell), 1926, 20, 751

Oats, growth of rats on diet of (Hartwell), 1926, 20, 753, 756
proteins of (Hartwell), 1926, 20, 752, 757

Obituary notice of Ackroyd, H., 1918, 12, 1
of Bayliss, W. M., 1924, 18, 1185
of Brown, A. J., 1920, 14, 1
of Brown, H. T., 1925, 19, 165
of Onslow, V. A. H. H., 1923, 17, 1
of Pickering, P. S. U., 1921, 15, 1
of Scott, S. J., 1918, 12, 3
of Tigerstedt, R. A. A., 1924, 18, 463
n-Octyl (capryl) acid, oxidation of, with hydrogen peroxide (Clutterbuck and Raper), 1925, 19, 390

Oenardin, occurrence of, in vine leaves (Rosenheim), 1920, 14, 178

Ohm's Law, not followed by muscle (Hartill and Hilt), 1921, 15, 379

Oil, fish, unsaponifiable fraction of, chemical nature of (Weidemann), 1926, 20, 685
fruit-rind, use of, as preservative (Delf), 1925, 19, 151
olive, fatty acids, saturated, from (Lapworth, Pearson and Mottram), 1925, 19, 8

Oils, animal and vegetable, nutritive value of, in relation to colour (Drummond and Coward), 1920, 14, 668
fish-livers, unsaturated alcohols in (Drummond, Channon and Coward), 1925, 19, 1060
plant, phytosterols in (Ellis), 1918, 12, 162
S. African, properties of, with respect to their content of vitamin A (Delf), 1924, 18, 93
unsaponifiable matter of, biological significance of (Channon), 1926, 20, 400
(Channon and Marrian), 1926, 20, 409

Oleates, haemolytic powers of (Ponder), 1924, 18, 848
lead and barium (Lapworth, Pearson and Mottram), 1925, 19, 8

Oleic acid, cholesteryl ester of, preparation of (Gardner and Fox), 1924, 18, 1064
dimorphism of (Lapworth, Pearson and Mottram), 1925, 19, 13
in yeast-fat (Smedley MacLean and Thomas), 1920, 14, 483
purified, preparation and properties of, and some of its salts (Lapworth, Pearson and Mottram), 1925, 19, 7, 10, 12
separation of, from stearic and palmitic acids (Lewis), 1926, 20, 1360
“setting point” of (Lapworth, Pearson and Mottram), 1925, 19, 14

Olein, interaction of, with mannitol (Lapworth and Pearson), 1919, 13, 296

Olehydroxamic acid, preparation of (Lewis), 1926, 20, 1359

Olive oil, effect of, on calcium and phosphorus assimilation in growing pig (Husband, Godden and Richards), 1923, 17, 707
hydrolysis of, by phosphoric esterase and pancreatic extract (Robison and Soames), 1924, 18, 745

Onion, content of cytopentans and cytopctic acid (Clayson, Norris and Schryver), 1921, 15, 645
growth-promoting properties of (Hume), 1921, 15, 44
leaves of, carbohydrase enzymes of (Chapman), 1924, 18, 1391

Onion residues, methyl alcohol in (Clayson, Norris and Schryver), 1921, 15, 647

Opacity and microscopic appearance of precipitated calcium oxalate (Holker), 1923, 17, 707
of diluted serum (Holker), 1921, 15, 238
of liquids, methods of measuring (Holker), 1921, 15, 216
of suspensions of red corpuscles (Holker), 1921, 15, 226

Opoponax, camphore in (Clifford), 1921, 15, 731

Ophthalmia in rats affected with avitaminosis (Stammers), 1924, 18, 9
INDEX OF SUBJECTS

Opium poppy, factors influencing alkaloidal content and yield of latex of (Annett), 1920, 14, 618

Opsonin, relation of fourth component of complement to (Gordon, Whitehead and Wormald), 1926, 20, 1044

Opsonins and diets deficient in vitamins (Findlay and Mackenzie), 1922, 16, 574

Orange, peroxidase in (Onslow), 1920, 14, 546

Orange-juice, antiscorbutic value of, in infant feeding (Chick, Hume and Skelton), 1918, 12, 151

antiscorbutic value of, seasonal variations in (Davey), 1921, 15, 88

as a source of vitamin B (Stammers), 1924, 18, 9

combined action of with milk as antiscorbutic (Wright), 1921, 15, 605

dried, antiscorbutic properties of (Harden and Robison), 1920, 14, 171

dried, effect of temperature on stability of vitamin C in (Harden and Robison), 1921, 15, 621

effect of "dialysed iron," fuller's earth and filtration through a Berkefeld candle on vitamin C of (Harden and Zilva), 1918, 12, 96, 103

effect of heat on vitamin C of (Delf), 1920, 14, 218

growth-promoting properties of (Hume), 1921, 15, 45

minimum dose of, for protection of guinea-pig from scurvy (Davey), 1921, 15, 88

pectic substances in (Norris), 1926, 20, 993

preservation of vitamin C in (Davey), 1921, 15, 100

requirements of the monkey for (Harden and Zilva), 1920, 14, 131

sodium and potassium citrates content of, with reference to its antiscorbutic potency (Harden and Zilva), 1918, 12, 270

Orange-residues, methyl alcohol in (Clayson, Norris and Schryver), 1921, 15, 647

Oranges, chilled, preservation of vitamin C in (Davey), 1921, 15, 101

cytopentans and cytopetic acid in (Clayson, Norris and Schryver), 1921, 15, 645

Ornithine, action of nitrous acid on (Pimmer), 1924, 18, 107

Osa zones of hexosephosphate (Lebedev), 1918, 12, 89

Osmolar concentration (Warburg), 1922, 16, 155

Osmosis and molecular weight determinations (Yamakami), 1920, 14, 103

Osmotic pressure and diffusion pressure (Haldane), 1918, 12, 471–84

definition and theory of (Haldane), 1918, 12, 481, 492–8

calcium ferrocyanide solutions (Haldane), 1918, 12, 490–7, 493

cane sugar solutions (Haldane), 1918, 12, 475–9, 494–5

colloid solutions, effect of salt solutions on (Ogata), 1922, 16, 449

or gelatin in solutions of sodium salicylate (Horne), 1924, 18, 1107

of haemoglobin (Wilson), 1925, 19, 80

Osselin (Manning and Schryver), 1921, 15, 526

dynamics of formation of gelatin from (Manning and Schryver), 1921, 15, 523

Ossification, defectives, in rachitic animals (Robison and Soames), 1925, 19, 103

possible significance of hexosephosphoric esters in (Robison), 1923, 17, 296; (Robison and Soames), 1924, 18, 740; (Kay and Robison), 1924, 18, 755; (Goodwin and Robison), 1924, 18, 1161; (Mandart and Robison), 1924, 18, 1554; (Robison), 1926, 20, 388; (Mandart and Robison), 1926, 20, 847

Osteomalacia, diagnosis of (Chick, Korenevsky and Roscoe), 1926, 20, 625

Osteoporosis, composition of bones in (Chick, Korenevsky and Roscoe), 1926, 20, 636

diagnosis of (Chick, Korenevsky and Roscoe), 1926, 20, 625

in pigs (Zilva, Golding and Drummond), 1924, 18, 872

in rats (Luce), 1924, 18, 725

Ostrea edulis, glycojen in (Daniel and Doran), 1926, 20, 683

Ovarian hormone, depressor effect of (Dickens, Dodds and Wright), 1925, 19, 857

insulin and, interaction of (Dickens, Dodds and Wright), 1925, 19, 858

preparation and standardisation of (Dickens, Dodds and Wright), 1925, 19, 853

Ovomucoid, nitrogen distribution in (Pimmer and Rosedale), 1925, 19, 1018

Ox, maltase in blood of (Compton), 1921, 15, 683

Ox-serum, investigation of proteins of, by racemisation method (Woodman), 1921, 15, 187

Oxalic acid, mechanism of formation of, by A. niger (Raiistrick and Clark), 1919, 13, 329

Oxidase, a possible constituent of tyrosinase (Onslow), 1923, 17, 216

action of, on catechol and p-cresol (Onslow and Robinson), 1926, 20, 1139, 1141

in plants (Onslow), 1920, 14, 535, 541; 1923, 17, 217

xanthine (Dixon and Thurlow), 1924, 18, 971, 976, 989; (Thurlow), 1925, 19, 175; (Dixon and Thurlow), 1925, 19, 672; (Kodama), 1926, 20, 1095

xanthine, distribution of (Morgan), 1926, 20, 1282

xanthine, dynamics of (Dixon and Thurlow), 1924, 18, 976

xanthine, oxidation-reduction potential of the system (Kodama), 1926, 20, 1095

xanthine, possible identity of, with the Schardinger enzyme (Dixon and Thurlow), 1924, 18, 985

xanthine, purification of (Dixon and Kodama), 1926, 20, 1104

xanthine, reduction of nitrates in presence of (Dixon and Thurlow), 1924, 18, 989

xanthine, specificity of the system (Dixon), 1926, 20, 703

Oxidase reaction, significance of o-quinone in (Onslow and Robinson), 1926, 20, 1138

Oxidase system, effect of hydrogen acceptors on potentials of (Kodama), 1926, 20, 1098
INDEX OF SUBJECTS

Oxygenase, of plants, resemblance of, to factor present in milk (Haas and Lee), 1924, 18, 520 of the higher plants (Onslow), 1924, 18, 549

Oxygenase-catechol system, hydrogen peroxide formation in (Onslow and Robinson), 1926, 20, 1143

Oxyhaematin, relationship of, to other blood pigments (Halliburton and Rosenheim), 1919, 13, 197

Oxyhaemocyanin, from blood of the common lobster and the edible crab, effect of pHg on dissociation curve of (Stedman and Stedman), 1926, 20, 938, 941, 949, 953 in the blood of some decapod crustaceae, dissociation curves of (Stedman and Stedman), 1925, 19, 544

Oxyhaemoglobin, acid nature of (Hill), 1923, 17, 544 denaturation of, by heat, critical increment of (Lewis), 1926, 20, 991 effect of alkali on (Hill), 1925, 19, 347 effect of variation in pHg on the velocity of heat-denaturation of (Lewis), 1926, 20, 965 globin of, preparation and some properties of (Hill and Holden), 1926, 20, 1326 oxygen evolved from, on conversion to methaemoglobin (Roal and Smart), 1923, 17, 582 preparation and recrystallisation of (Dudley and Evans), 1921, 15, 487 relationship of, to other blood-pigments (Halliburton and Rosenheim), 1919, 13, 197 velocity of heat-denaturation of, effect of neutral salts on (Lewis), 1926, 20, 984, 986

Oxytocic principle of pituitary gland (Thorpe), 1926, 20, 374

Ozone, action of, on vitamin A in fats (Zilva), 1920, 14, 740 effect of, on growth on diets deficient in fat-soluble vitamin (Hume and Smith), 1923, 17, 372

Ozonide structure of peroxidases (Gallagher), 1924, 18, 36

Palm-kernel oil, steam-distilled, value of, as a control fat (Stammers), 1921, 15, 489

Palmitate, lead, solubility of (Lapworth, Pearson and Mottram), 1925, 19, 8

Palmitates, haemolytic powers of (Ponder), 1924, 18, 848

Palmitic acid, cholesteryl ester of (Gardner and Fox), 1924, 18, 1064 in yeast-fat (Smedley MacLean and Thomas), 1920, 14, 453 oxidation of, with hydrogen peroxide (Chutterbuck and Rapier), 1925, 19, 359 separation of, from oleic acid (Lewis), 1926, 20, 1361

Palmitohydroxamic acid (Lewis), 1926, 20, 1358

Pancreas, effect of extract of, on serum-calcium (Davies, Dickens and Dodds), 1926, 20, 699 effect of ingestion of, on uric acid and creatinine excretion in man (Zwarenstein), 1926, 20, 746 isolation of spermine phosphate from (Dudley, Rosenheim and Rosenheim), 1924, 18, 1265 phosphoric esterase in (Robison and Soames), 1924, 18, 743

Pancreatic extract, effect of injection of, on blood-fat and blood-cholesterol (White), 1925, 19, 923

Pancreatic extracts, milk-coagulating and proteolytic power of, under various conditions (Edie), 1921, 15, 503, 505

Pancreatic factor inhibiting lactic acid production by chopped muscle, preparation of (Foster and Woodrow), 1924, 18, 567

Pancreatic juice, activation of, by enterokinase under various conditions (Seth), 1924, 18, 1401, 1403 of dogs, hydrogen ion concentration of (Seth), 1924, 18, 1401

Pancreatic lipase, factors influencing action of (Platt and Dawson), 1925, 19, 860

Pancreatic preparations, effect of, on succinic acid formation in muscle (Moyle), 1924, 18, 359

Papaver somniferum, alkaloidal content of, and yield of latex of (Annett), 1920, 14, 618 enzymes of latex of (Annett), 1922, 16, 765

Papaya, vitamins of (Miller), 1926, 20, 515

Paraformaldehyde, creatine excretion in bird, produced by (Thompson), 1917, 11, 307

Paraddehyde, action of, on proteins and lipins (Cooper), 1924, 18, 948

Paranuclein, action of phosphatases on (Rimington and Kay), 1926, 20, 781, 784 nature of (Rimington and Kay), 1926, 20, 778 phosphorus of (Rimington and Kay), 1926, 20, 779, 784

Parathyroid extract, effect of, on serum-calcium of rabbit (Davies, Dickens and Dodds), 1926, 20, 696, 698

Parathyroid feeding, effect of, on appetite and weight of animals (Woodman), 1925, 19, 597 effect of, on calcium and creatine metabolism (Woodman), 1925, 19, 505, 508

Parathyroid hormone and insulin, similarities between (Davies, Dickens and Dodds), 1926, 20, 701 preparation, properties and source of (Davies, Dickens and Dodds), 1926, 20, 695 specificity of (Davies, Dickens and Dodds), 1926, 20, 701

Parathyroid tetany, alkalosis and acidosis in (Cruickshank), 1924, 18, 47 causes of (Cruickshank), 1923, 17, 21 diffusible calcium in serum in (Cruickshank), 1923, 17, 17 in dogs (Cruickshank), 1923, 17, 26

Parents' diet, effect of, upon young (Korenchevsky and Carr), 1924, 18, 1309, 1313

Parthenocissus quinquefolia, pHg of leaf-sap of (Chibnall and Grover), 1926, 20, 112

Parthenocissus tricuspidata, pHg of leaf-sap of (Chibnall and Grover), 1926, 20, 112
Parthenogenesis, artificial, in sea-urchins (Frost), 1923, 17, 418

Pea, attempted isolation of glutathione from (Kozlowski), 1926, 20, 1546

dried, antiscorbutic value of (Chick and Delf), 1919, 13, 201

dried, cooking of (Masters), 1918, 12, 243

dried, vitamin A in unsaponifiable matter of (Coward and Drummond), 1921, 15, 536, 538

germinated, antiscorbutic value of (Chick and Delf), 1919, 13, 206

germinated, growth-promoting properties of (Hume), 1921, 15, 45

iso-electric points of proteins from (Pearsall and Ewing), 1924, 18, 333

soaked, antiscorbutic value of (Chick and Delf), 1919, 13, 204

vitamin A in (Coward and Drummond), 1921, 15, 531, 538

See also Legumes

Pea-pods, cytopentans and cytopectic acid in (Clayson, Norris and Schryver), 1921, 15, 645

Pea-pods residue, methyl alcohol in (Clayson, Norris and Schryver), 1921, 15, 647

Pea-shoots, etiolated and green, vitamin A in unsaponifiable matter of (Coward and Drummond), 1921, 15, 537

Peach, oxidising enzymes of (Onslow), 1921, 15, 114

Pear, oxidase and peroxidase in (Onslow), 1919, 13, 4; 1920, 14, 544

oxidase of, separation of, into three constituents (Robinson), 1924, 18, 544

stone cells of (Dorée and Barton-Wright), 1926, 20, 502

stone cells of, lignocellulose in (Dorée and Barton-Wright), 1926, 20, 502, 505

Peat, bacteria in (Thaysen, Bakes and Bunker), 1926, 20, 210

origin of, and humus compounds in deteriorated fabrics (Thaysen, Bakes and Bunker), 1926, 20, 210

Pectase, action of, on pectin (Tutin), 1921, 15, 494

preparation of (Tutin), 1921, 15, 496

production of acetone and methyl alcohol from pectin by (Tutin), 1921, 15, 497

Pectic acid, nature of pectinogen and its relation to (Norris and Schryver), 1925, 19, 676

preparation of (Tutin), 1921, 15, 496

preparation of, from apples (Carré and Haynes), 1922, 16, 65

preparation of, from orange-juice (Norris), 1926, 20, 993

preparation of, from pectinogen (Norris and Schryver), 1925, 19, 687

Pectic constituents of stored fruit, changes occurring in (Carré), 1922, 16, 704

Pectic substance in beech wood (O’Dwyer), 1925, 19, 694

Pectic substances of orange-juice (Norris), 1926, 20, 993

of plants (Clayson, Norris and Schryver), 1921, 15, 643

Pectin and pectose in apple tissue, the relation of (Carré), 1923, 19, 257

Pectin, and “protopectin” (Tutin), 1923, 17, 510

ash-free, methods of obtaining (Emmett), 1926, 20, 561

behaviour of, towards alkalis and pectase (Tutin), 1921, 15, 494
determination of (Emmett and Carré), 1926, 20, 6, 11
determination of, as calcium pectate (Carré and Haynes), 1922, 16, 60
determination of, in fruit (Carré), 1922, 16, 704
dialysis and electrodialysis of (Emmett), 1926, 20, 565

extraction of, from the fruit-rind of the lime (Hardy), 1924, 18, 283

from apples (Tutin), 1921, 15, 495

from pectose, production of (Carré), 1925, 19, 263

from vegetables (Tutin), 1921, 15, 497

hydrolysis of, production of acetone by (Tutin), 1923, 17, 83

precipitation of (Emmett and Carré), 1926, 20, 7

production of methyl alcohol and acetone from (Tutin), 1921, 15, 496

soluble, development of, in stored fruit (Carré), 1922, 16, 705, 707, 711

soluble, in apples (Carré and Haynes), 1922, 16, 60, 68

Pectin content of normal and “silvered” apple leaves (Tutin), 1925, 19, 414

Pectinogen, hemicellulose from (Norris and Schryver), 1925, 18, 689

methoxyl content of (Norris and Schryver), 1925, 19, 686

nature of, and its relation to pectic acid (Norris and Schryver), 1925, 19, 676, 678, 687

Pectose and pectin, relation of, in apple tissue (Carré), 1925, 19, 257

hydrolysis of, to pectin (Carré), 1925, 19, 263

Peel of Citrus fruits, oxidising enzymes in (Williom and Wokes), 1926, 20, 1068

Pellagra in monkeys (Chick and Hume), 1920, 14, 125

Pentacyethylmethyly-cyclo-hexanexihexitol (pentacyethylmytilitol) (Daniel and Doran), 1926, 20, 679

Pentamethylkerasin, preparation of (Pryde and Humphreys), 1924, 18, 662

Pentosans, determination of (Ling and Nanji), 1921, 15, 406

Pentose content of cytopentans and cytopectic acid (Clayson, Norris and Schryver), 1921, 15, 649, 652

Pentoses as hydrogen donators in presence of bacteria (Quastel and Whetham), 1925, 19, 648; (Quastel and Wooldridge), 1925, 19, 658
determination of (Ling and Nanji), 1921, 15, 466
determination of, colorimetric (McCance), 1926, 20, 1111

Pepsin, action of, on caseinogen (Rimington and Kay), 1926, 20, 778, 780

action of, on insulin (Dudley), 1923, 17, 381, 387
Phenylalanine, removal of, from hydrolysis products of caseinogen (Foreman), 1919, 13, 384
Phenylalanine phosphotungstate (Drummond), 1918, 12, 12
β-Phenylo-s-butylric acid, fate of, in the body (Kay and Raper), 1924, 18, 153
Phenylcarbamidohordenine, preparation of (Stedman), 1926, 20, 727
p-Phenylendiamine, action of, on glutathione (Handovsky), 1926, 20, 1119
and glutathione, reduction potentials of (Handovsky), 1926, 20, 1120
effect of, on oxidation of lactic acid (Handovsky), 1926, 20, 1118
factors catalysing oxidation of (Handovsky), 1926, 20, 1120
Phenylethylamine, reduction of (Weinhagen), 1917, 11, 273, 275
Phenylethylamine phosphotungstate (Drummond), 1918, 12, 15
Phenylglucoazone, formation of, from human blood (Cooper and Walker), 1921, 15, 417
β-Phenylexol acid, fate of, in the animal body (Clutterbuck and Raper), 1925, 19, 911
preparation of (Clutterbuck and Raper), 1925, 19, 912
β-Phenylexovylglycine, preparation of (Clutterbuck and Raper), 1925, 19, 913
Phenyhydrazine, determination of, volumetric (Ling and Nanji), 1921, 15, 466
γ-Phenyl-iso-valeric acid, fate of, in the body (Kay and Raper), 1924, 18, 153
Phenylsuccinic acid, determination of (Tallerman), 1926, 20, 854
Phloridzin, nature of urinary sugar after dose of (Tallerman), 1924, 18, 583
Phosphatase, bone, action of, on phosphoric esters of serum (Martialand and Robison), 1926, 20, 854
kidney, dialysis of (Kay), 1926, 20, 807
kidney, dried, preparation of (Kay), 1926, 20, 800
kidney, effect of autolysis on (Kay), 1926, 20, 800
kidney, properties of (Kay), 1926, 20, 791
plasma (Martialand and Robison), 1926, 20, 854
Phosphatase activity, determination of (Kay), 1926, 20, 797
Phosphatase content of bone and kidney (Kay), 1926, 20, 797
Phosphatases, bone and kidney, action of, on acid-soluble organic phosphorus of kidney (Kay), 1926, 20, 793
bone and kidney, action of, on phosphopeptone (Rimington and Kay), 1926, 20, 783
Phosphate and growth of streptococci (Whitehead), 1926, 20, 1147
blood-, inorganic, determination of, by micro-method (Havard and Reay), 1925, 19, 882
blood-, inorganic, effect of ether anaesthesia and surgical shock on (Martialand and Robison), 1924, 18, 768
blood-, inorganic, effect of fat-soluble factor in diet on (Robison and Soames), 1925, 19, 156
Phosphate, blood-, inorganic, effect of sleep on (Havard and Reay), 1925, 19, 884
blood-, inorganic, increase of, after withdrawal from the body (Martialand and Robison), 1924, 18, 767
blood-, inorganic, normal and seasonal variations of (Havard and Reay), 1925, 19, 882, 886
effect of addition of, in bread making (Masters and Maughan), 1920, 14, 593
effect of, on carbohydrate, fat and sterol metabolism of yeast (Smedley MacLean and Hoffert), 1923, 17, 737; 1926, 20, 354
effect of, on glucose fermentation (Hemmi), 1923, 17, 327
effect of, on lipase action (Platt and Dawson), 1925, 19, 860
effect of, on reduction of methylene blue by glucose with a protein derivative (Borsok and Wasteney), 1925, 19, 1128
effect of, on storage of fat and carbohydrate in the yeast-cell (Smedley MacLean and Hoffert), 1924, 18, 1273
excretion of, during water diuresis (Havard and Reay), 1926, 20, 99
excretion of, in urine (Campbell and Webster), 1922, 16, 511
fermentation of glucose in presence of, by yeast preparations, effect of aldehydes, etc., on (Harden and Henley), 1920, 14, 642
function of, in oxidation of glucose by hydrogen peroxide (Harden and Henley), 1922, 16, 143
muscle-, effect of glycojen plus fluoride on (Andrews), 1925, 19, 244
muscle-juice-, inorganic, effect of warming on (Andrews, Beattie and Milroy), 1924, 18, 993
of non-irritable muscle (Edsall), 1926, 20, 569
plasma-, and phosphoric esterase (Robison and Soames), 1924, 18, 750
plasma-, inorganic, and phosphoric esterase (Kay and Robison), 1924, 18, 762
potassium dihydrogen, acceleration of action of protease of dried yeast by (Ivanov), 1918, 12, 110
relationship of, to carbohydrate metabolism (Sokhey and Allan), 1924, 18, 1170
rôle of, in carbohydrate metabolism (Kay and Robison), 1924, 18, 1139
rôle of, in lactic acid production by plain muscle (Evans), 1925, 19, 1121
sodium dihydrogen, effect of administration of, on creatinine content of urine (Burns), 1920, 14, 94
sodium dihydrogen, effect of, on growth and skeleton of rats kept on a fat-soluble-deficient diet (Korenchevsky and Carr), 1925, 19, 101, 105
sodium, fermentation of sugar in presence of (Lebedev), 1918, 12, 87
storage of, in yeast, effect of composition of medium on (Smedley MacLean and Hoffert), 1923, 17, 734
urinary, source of (Kay), 1926, 20, 808
Phosphate content of blood in acidosis (Martialand), 1925, 19, 120
<table>
<thead>
<tr>
<th>Subject</th>
<th>Year(s)</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphate metabolism in fatigued mammalian muscle (Andrews)</td>
<td>1925, 19</td>
<td>242</td>
</tr>
<tr>
<td>Phosphatides, action of, on the perfused frog’s heart (Eggleton)</td>
<td>1920, 19</td>
<td>306, 539</td>
</tr>
<tr>
<td>Phospholipin of blood and liver in experimental rickets in dogs (Sharpe)</td>
<td>1922, 16</td>
<td>468</td>
</tr>
<tr>
<td>Phosphomolybdic acid, blue colour produced by cuprous oxide with</td>
<td>1924, 18</td>
<td>22</td>
</tr>
<tr>
<td>Phosphomolybdstungatic acids, coloration given by substances containing</td>
<td>1924, 18</td>
<td>366</td>
</tr>
<tr>
<td>Phosphopeptone, preparation and action of enzymes on</td>
<td>1926, 20</td>
<td>782</td>
</tr>
<tr>
<td>Phosphoprotein in seeds (Fodor and Reifenberg)</td>
<td>1925, 19</td>
<td>192</td>
</tr>
<tr>
<td>Phosphoric ester, a new, produced by the action of yeast-juice on</td>
<td>1922, 16</td>
<td>809</td>
</tr>
<tr>
<td>Phosphoric esterase, blood- (Martland, Hansman and Robison)</td>
<td>1924, 18</td>
<td>1152</td>
</tr>
<tr>
<td>Phosphoric esters, action on, of phosphoric esterase of blood</td>
<td>1924, 18</td>
<td>1155</td>
</tr>
<tr>
<td>content of, in blood of ruminants (Kay)</td>
<td>1925, 19</td>
<td>447</td>
</tr>
<tr>
<td>formation of, during alcoholic fermentation (Lebedev)</td>
<td>1918, 12</td>
<td>87</td>
</tr>
<tr>
<td>of blood (Goodwin and Robison)</td>
<td>1924, 18</td>
<td>1161</td>
</tr>
<tr>
<td>of blood, action of phosphoric esterase on (Kay and Robison)</td>
<td>1924, 18</td>
<td>755</td>
</tr>
<tr>
<td>of blood, determination of (Kay and Robison)</td>
<td>1924, 18</td>
<td>757</td>
</tr>
<tr>
<td>of blood, enzymic hydrolysis of (Martland)</td>
<td>1925, 19</td>
<td>118</td>
</tr>
<tr>
<td>of blood-plasma (Martland and Robison)</td>
<td>1926, 20</td>
<td>847</td>
</tr>
<tr>
<td>of milk, hydrolysis of, by acids and alkaloids (Kay)</td>
<td>1925, 19</td>
<td>440</td>
</tr>
<tr>
<td>of milk, hydrolysis of, enzymic (Kay)</td>
<td>1925, 19</td>
<td>439, 441</td>
</tr>
<tr>
<td>of milk, relationship of, to caseinogen (Rimington and Kay)</td>
<td>1926, 20</td>
<td>788</td>
</tr>
<tr>
<td>of serum, action of bone-phosphatase on (Martland and Robison)</td>
<td>1926, 20</td>
<td>854</td>
</tr>
<tr>
<td>separation of, from milk (Kay)</td>
<td>1925, 19</td>
<td>435, 443</td>
</tr>
<tr>
<td>Phosphorus, acid-soluble compounds, distribution of, in blood (Kay)</td>
<td>1924, 18</td>
<td>760</td>
</tr>
<tr>
<td>acid-soluble organic, of kidney (Kay)</td>
<td>1926, 20</td>
<td>792</td>
</tr>
<tr>
<td>acid-soluble organic, of serum (Martland and Robison)</td>
<td>1926, 20</td>
<td>847, 852</td>
</tr>
<tr>
<td>amount of, in blood, effect of ether anaesthesia and surgical shock on</td>
<td>1924, 18</td>
<td>768</td>
</tr>
<tr>
<td>Phosphorus and phosphopeptone of caseinogen, relationship of, to</td>
<td>1926, 20</td>
<td>787</td>
</tr>
<tr>
<td>assimilation of, in growing pig, effect of oils on (Husband, Godden and</td>
<td>1923, 17</td>
<td>707</td>
</tr>
<tr>
<td>assimilation of, in growing pig, effect of potassium iodide on (Kelly)</td>
<td>1925, 19</td>
<td>559</td>
</tr>
<tr>
<td>determination of, by, Bell and Doisey’s method, in blood, accuracy of</td>
<td>1923, 17</td>
<td>44</td>
</tr>
<tr>
<td>determination of, by Briggs’ method, modification of (Martland and</td>
<td>1926, 20</td>
<td>848</td>
</tr>
<tr>
<td>determination of, colorimetric, of ammonium sulphate and other salts</td>
<td>1924, 18</td>
<td>1297</td>
</tr>
<tr>
<td>determination of, colorimetric, of minute amounts of (Atkins and Wilson)</td>
<td>1926, 20</td>
<td>1223</td>
</tr>
<tr>
<td>distribution of, in tissues of herring (Bruce)</td>
<td>1924, 18</td>
<td>483</td>
</tr>
<tr>
<td>effect of cod-liver oil and of spinach on retention of, by rats (Boas)</td>
<td>1926, 18</td>
<td>161</td>
</tr>
<tr>
<td>excretion of, effect of biliary exclusion on (Telfer)</td>
<td>1921, 15</td>
<td>348</td>
</tr>
<tr>
<td>excretion of, effect of free fatty acids in intestinal contents on (Telfer)</td>
<td>1921, 15</td>
<td>347</td>
</tr>
<tr>
<td>in antiscorbutic fraction of lemon-juice (Zilva)</td>
<td>1924, 18</td>
<td>635; (Daubney and Zilva) 1926, 20</td>
</tr>
<tr>
<td>in blood, effect of fatigue on partition of (Cuthbertson)</td>
<td>1925, 19</td>
<td>907</td>
</tr>
<tr>
<td>in blood of children, effect of feeding on (Anderson)</td>
<td>1923, 17</td>
<td>47</td>
</tr>
<tr>
<td>in blood, partition of (Cuthbertson)</td>
<td>1925, 19</td>
<td>896</td>
</tr>
<tr>
<td>in foetus, effect of diet of parent on (Korenchevsky and Carr)</td>
<td>1923, 17</td>
<td>597</td>
</tr>
<tr>
<td>in food, changes undergone in gut by (Telfer)</td>
<td>1921, 15</td>
<td>353</td>
</tr>
<tr>
<td>in growing rats, determination of retention of (Boas)</td>
<td>1924, 18</td>
<td>425</td>
</tr>
<tr>
<td>in human blood, changes in partition of, during ammonium chloride acidosis (Kay)</td>
<td>1924, 18</td>
<td>1133</td>
</tr>
<tr>
<td>inorganic, in blood of children (Anderson)</td>
<td>1923, 17</td>
<td>43</td>
</tr>
<tr>
<td>inorganic, in laked blood, changes in, during autolysis (Martland,</td>
<td>1924, 18</td>
<td>1157</td>
</tr>
<tr>
<td>liberation of, from caseinogen by enzymes and other agents (Rimington</td>
<td>1926, 20</td>
<td>777</td>
</tr>
<tr>
<td>of caseinogen, fractionation of, after trypsin digestion (Whitehead)</td>
<td>1926, 20</td>
<td>1147</td>
</tr>
<tr>
<td>Phosphorus balance of growing pig (Richards, Godden and Husband)</td>
<td>1924, 18</td>
<td>856</td>
</tr>
</tbody>
</table>
Phytosterol-digitonin reaction content of Phytosterols in cabbage seeds and grass fruits (Ellis), 1918, 12, 164, 157 in fungi (Ellis), 1918, 12, 164, 175 in lower plants, occurrence of (Ellis), 1918, 12, 175 in plant tissues and constituents (Ellis), 1918, 12, 162 in seeds (Ellis), 1918, 12, 161

Phytosterols in cabbage seeds and grass fruits (Ellis), 1918, 12, 164, 157 in fungi (Ellis), 1918, 12, 164, 175 in lower plants, occurrence of (Ellis), 1918, 12, 175 in plant tissues and constituents (Ellis), 1918, 12, 162

Phytosterols in cabbage seeds and grass fruits (Ellis), 1918, 12, 164, 157 in fungi (Ellis), 1918, 12, 164, 175 in lower plants, occurrence of (Ellis), 1918, 12, 175 in plant tissues and constituents (Ellis), 1918, 12, 162

Phytosterols in cabbage seeds and grass fruits (Ellis), 1918, 12, 164, 157 in fungi (Ellis), 1918, 12, 164, 175 in lower plants, occurrence of (Ellis), 1918, 12, 175 in plant tissues and constituents (Ellis), 1918, 12, 162

Phytosterols in cabbage seeds and grass fruits (Ellis), 1918, 12, 164, 157 in fungi (Ellis), 1918, 12, 164, 175 in lower plants, occurrence of (Ellis), 1918, 12, 175 in plant tissues and constituents (Ellis), 1918, 12, 162

Phytosterols in cabbage seeds and grass fruits (Ellis), 1918, 12, 164, 157 in fungi (Ellis), 1918, 12, 164, 175 in lower plants, occurrence of (Ellis), 1918, 12, 175 in plant tissues and constituents (Ellis), 1918, 12, 162

Phytosterols in cabbage seeds and grass fruits (Ellis), 1918, 12, 164, 157 in fungi (Ellis), 1918, 12, 164, 175 in lower plants, occurrence of (Ellis), 1918, 12, 175 in plant tissues and constituents (Ellis), 1918, 12, 162

Phytosterols in cabbage seeds and grass fruits (Ellis), 1918, 12, 164, 157 in fungi (Ellis), 1918, 12, 164, 175 in lower plants, occurrence of (Ellis), 1918, 12, 175 in plant tissues and constituents (Ellis), 1918, 12, 162

Phytosterols in cabbage seeds and grass fruits (Ellis), 1918, 12, 164, 157 in fungi (Ellis), 1918, 12, 164, 175 in lower plants, occurrence of (Ellis), 1918, 12, 175 in plant tissues and constituents (Ellis), 1918, 12, 162
INDEX OF SUBJECTS

Plants, absorption and translocation of lead by (Hevesy), 1923, 17, 439
alpine, effect of climate on adaptation of (Rosenheim), 1918, 12, 283
cell-walls of, chemistry of (Clayson, Norris and Schryver), 1921, 15, 843
higher and lower, comparison of oxidising enzymes of (Robinson), 1924, 18, 543
higher, distribution of oxidising enzymes in (Onslow), 1921, 15, 107
higher, nitrogenous metabolism of (Chibnall and Schryver), 1921, 15, 60, 387, 395;
(Chibnall), 1924, 18, 405
higher, oxygenase of (Onslow), 1924, 18, 549
higher, production of ethyl alcohol and acetalddehyde by cells of (Thomas), 1925, 19, 927
lower, phytosterol in (Ellis), 1918, 12, 173
non-protein cysteine in (Kozlowski), 1926, 20, 1346
oxidation in, direct and indirect (Onslow), 1919, 13, 1
oxidation in, mechanism of (Gallagher), 1923, 17, 515
pectic substances of (Clayson, Norris and Schryver), 1921, 15, 643; (Norris and Schryver), 1925, 19, 676; (Norris), 1926, 20, 993
phytosterolins of (Ellis), 1918, 12, 163
utilisation of vitamin A by, in the dark (Coward), 1925, 19, 501
Plasma, antitetican and antidiaphtheretic, association of the antitoxins with proteins of (Homer), 1920, 14, 42
balance of ions in normal and nephritic (Marrack), 1923, 17, 241, 255
bicarbonate of, micro-titration of (Lepper and Martin), 1925, 19, 573
bicarbonate of, of scorbatic guinea-pigs (Lepper and Zilva), 1925, 19, 581
bicarbonate of, relation of concentration of, to reaction of (Marrack), 1923, 17, 248
calcium content of, in tetany (Cruickshank), 1923, 17, 16
calcium content of, in tetany (Cruickshank), 1923, 17, 16
calcium content of, in tetany (Cruickshank), 1923, 17, 16
contribution of the, to the viscosity of blood (Trevan), 1918, 12, 65
cyanates in (Montgomery), 1925, 19, 72
dialysis of, against calcium solutions (Marrack and Thacker), 1926, 20, 587
effect of, on haemolysis by soaps (Ponder), 1924, 18, 845
irradiation of (Harris), 1926, 20, 277
phosphoric esters in (Kay and Robison), 1924, 18, 755
photo-oxidation of (Harris), 1926, 20, 280
salted, coagulation in (Pickering and Hewitt), 1921, 15, 719
Plasma-phosphatase (Martland and Robison), 1929, 20, 854
Plasma-proteins, rôle of, in diffusion (Milroy and Donegan), 1919, 13, 258
Platanus orientalis, invertases in leaf of (Blagoveshenski and Sossiedov), 1925, 19, 352
leaf peptase of (Blagoveshenski and Bielozerski), 1925, 19, 356
Platelets, blood, action of, in coagulation (Pickering and Hewitt), 1921, 15, 720

Pike, see Esox lucius
Pine, Oregon and spring wood of, distribution of lignin in (Mehta), 1925, 19, 967
pitch, sections of, counterstaining of (Mehta), 1925, 19, 987
Pineapple, oxidising enzymes of (Onslow), 1921, 15, 116
Pinus sylvestris, see Fir, Scotch
Pipette, automatic (Harrison), 1924, 18, 188
automatic, use of micrometer syringe as (Trevan), 1925, 19, 1114
Pipettes, accuracy of measurements with small (Andrewes), 1919, 13, 38
calibration of, small (Andrewes), 1919, 13, 42
Pinus sativum, see Pea
Pituitary, growth of mice fed on (Drummond and Cannan), 1922, 18, 68
melanophore stimulant in extracts of posterior lobe of (Hogben and Winton), 1922, 16, 619
oxytocic principle of, nature of (Thorpe), 1926, 20, 374
Pituitrin and insulin, effect of, on serum-calcium (Davies, Dickens and Dodds), 1926, 20, 700
See also Hypophysin
Placenta, rate of autolysis of, after death of fetus (Long and Parkes), 1924, 18, 802
Plankton, vitamin A in (Drummond and Zilva), 1922, 16, 519, 522
Plant, mechanism of oxidation in the (Gallagher), 1924, 18, 29, 39
Plant cell, suction pressure of (Stiles), 1922, 16, 727
Plant ferment, specific action of (Blagoveshenski and Sossiedov), 1925, 19, 350;
(Blagoveshenski and Bielozerski), 1925, 19, 355
Plant globulins, specific action of plant proteases on (Blagoveshenski), 1924, 18, 795
Plant growth, accessory factors for (Rosenheim), 1917, 11, 7
Plant nucleic acids (Clarke and Schryver), 1917, 11, 319
Plant oxidases, mechanism of (Onslow and Robinson), 1926, 20, 1138
Plant products, blue fluorescent substance of, in ultra-violet light (Kinninley, Peters and Squires), 1925, 19, 409
Plant proteases, specific action of, on plant globulins (Blagoveshenski), 1924, 18, 795
Plant proteins, isoelectric points of (Pearsall and Ewing), 1924, 18, 329
Plant residues, methyl alcohol in (Clayson, Norris and Schryver), 1921, 15, 647
Plant tissues, apparatus for the wet grinding of, out of contact with air (Roach), 1925, 19, 783
constituents of, differentiation by counterstaining (Mehta), 1925, 19, 986, 987
extraction of aromatic substances from (Onslow), 1919, 13, 6
vitamin A in, formation of (Coward), 1923, 17, 134
vitamin A in, persistence of (Coward), 1925, 19, 500
INDEX OF SUBJECTS

Pleural fluid, chloride content of, effect of deproteinisation on (Mukai), 1921, 15, 519
Plum, oxidase and peroxidase in (Onslow), 1920, 14, 545
Plumaria elegans, ethereal sulphate in (Haas and Russell-Wells), 1923, 17, 703
Pneumococcal growth, effect of, on blood-pigment (McLeod and Gordon), 1922, 16, 503
production of inhibitory substance in (McLeod and Gordon), 1922, 16, 499
Poisoning, mechanism of, and adsorption (Seth), 1923, 17, 613, 617
Polygonum cuspidatum, pN of leaf-sap of (Chibnall and Grover), 1926, 20, 112
Polychydric phenols as hydrogen donators in presence of B. coli and methylene blue (Quastel and Whetham), 1925, 19, 523
Polyneuritis in chickens on vitamin B-deficient diet (Thompson and Carr), 1923, 17, 373
in pigeons, effect of yeast concentrates on (Kinnnersley and Peters), 1925, 19, 821
Polyphenols, reagent for (Bezzanoff), 1923, 17, 420
Polytropos betulinus, ergosterol and fongistrol in (Ellis), 1918, 12, 176
Polytropos nigricans, ergosterol and fongistrol in (Ellis), 1918, 12, 175
Polsaccharide, formation of, by yeast (Naganishi), 1926, 20, 856, 858, 864
Polsaccharides of cell-wall, histology of (Mehta), 1925, 19, 979
Polyisophaonia, vitamin A in (Coward and Drummond), 1921, 15, 535, 538
Polyisophaonia fastigiata, ethereal sulphates in (Haas and Russell-Wells), 1923, 17, 702
Polyuria, in rats (Needham), 1924, 18, 894, 901
Pomegranate, oxidising enzymes of (Onslow), 1921, 15, 116
Poppy, Indian, enzymes of latex of (Annett), 1922, 15, 765
Populus tremula, pN of leaf-sap of (Chibnall and Grover), 1926, 20, 112
Pork protein, analysis of (Rosedale), 1922, 16, 20, 29
Porphyrins, wave-length of bands of (Hill and Holdend), 1926, 20, 1330
Position isomerism in tellurium derivatives of diketones, effect of, on bactericidal action (Morgan, Cooper and Burtt), 1923, 17, 32
Potassium acetate and formate, effect of, on fermentation by yeast (Katagiri), 1926, 20, 428, 432
Potassium balance, of growing pig (Richards, Godden and Husband), 1924, 18, 656
Potassium phenylsulphate, effect of, on nitrogen and sulphur excretion of dogs (Callow and Hele), 1926, 20, 601, 603
Potassium phosphate, specific action of, on inactivated zymin and dried yeast (Harden), 1917, 11, 66, 68
Potassium phosphotungstate (Drummond), 1918, 12, 21
Potassium sulphate, coefficient of diffusion of, in gelatin and agar-agar (Stiles), 1921, 15, 631
Potato, effect of addition of, in bread making (Masters and Maughan), 1920, 14, 594
Potato, isoelectric points of proteins from (Pearsall and Ewing), 1924, 18, 336
oxidase of, separation of into three constituents (Robinson), 1924, 18, 544
peroxidase in (Onslow), 1919, 13, 4
peroxidase in enzyme preparation of (Onslow and Robinson), 1926, 20, 1139
peroxide-forming constituents of (Gallagher), 1923, 17, 530
sun-dried, antiscorbutic and antineuritic properties of (Shorten and Ray), 1921, 15, 280, 283
tyrosinase in (Onslow), 1919, 13, 4
Potato cork, nature of membrane of (Rhodes), 1925, 19, 454
saponification of (Rhodes), 1925, 19, 456, 459
Prangos pabularia, invertases in leaf of (Blagoveshenski and Sossiedov), 1925, 19, 350
leaf peptase of (Blagoveshenski and Bielozerski), 1925, 19, 356
Pregnancy, "ammonia coefficient" of (Cullis and Hewer), 1920, 14, 757
blood-fat and blood-cholesterol of dog in (White), 1925, 19, 921
calcium of blood during (Widdows), 1923, 17, 34; 1924, 18, 555
mother's diet during, effect on young of an excessive amount of calcium in (Korenchevsky and Carr), 1925, 19, 112
vomiting of, blood-calcium in (Widdows), 1924, 18, 557
Primates, carnosine in (Clifford), 1921, 15, 733
Proline, determination of, in caseinogen (Foreman), 1919, 13, 386
extraction of, from the products of hydrolysis of caseinogen, by butyl alcohol (Dakin), 1918, 12, 291
l-Prolylhydantoin (Dakin), 1918, 12, 297
Propionic acid, activation of (Quastel), 1926, 20, 187
iso-Propyl alcohol, carbolic acid coefficient of (Morgan and Cooper), 1921, 15, 593
Propyl alcohol, effect of, on reduction of methylene blue by succinic acid in presence of B. coli (Quastel and Whetham), 1925, 19, 528
inhibition of glycolysis in blood by (Irvine), 1926, 20, 617
Prostate, effect of injections of emulsions of, on nitrogen metabolism of normal, castrated and thyroidectomised rabbits (Korenchevsky and Carr), 1925, 19, 773
Protamine, in human semen, presence of (Rosenheim), 1924, 18, 1257
Protease of dried yeast, action of, in presence of, by potassium dihydrogen phosphate (Ivanov), 1918, 12, 110
Proteases, plant, specific action of, on plant globulins (Blagoveshenski), 1924, 15, 795
vegetable (Fisher), 1919, 13, 124
Protein, acid-precipitable, in seeds (Fodor and Reifenberg), 1925, 19, 192
Adamkiewicz test for (Fearon), 1920, 14, 548 and vitamin B, relation between, in diet of growing rats (Reader and Drummond), 1926, 20, 1256
bread, biological value of (Hindhede), 1926, 20, 330
INDEX OF SUBJECTS

Protein, dietary, and loss of fur in young growing rats, possible correlation between (Hartwell), 1925, 19, 75

dissociation of, and protein error in $p_H$ determination (St Johnston and Pearse), 1920, 20, 817, 820

effect of, on mammary secretion (Hartwell), 1921, 15, 151; 1922, 16, 78

excess of, and mammary secretion (Hartwell), 1921, 15, 563

“excess,” threshold and effects of, in diets of lactating rats (Hartwell), 1924, 18, 785

denaturation of, by heat-stable catalyst present in muscle (Clifford), 1924, 18, 669

ingested, delay in excretion of (Wilson), 1925, 19, 324

of bean, effect of germination on digestibility of (Adkins), 1920, 14, 637

cod muscle (Callow), 1925, 19, 5

of runner bean leaves, separation of (Chibnall), 1922, 16, 346

relation of, to other dietary constituents, effect of, on mammary secretion (Hartwell), 1922, 16, 78, 88, 824

relation of, to vitamin B in diets of lactating rats (Hartwell), 1924, 18, 785

removal of, from body fluids for analytical purposes (Mukai), 1921, 15, 516

separation of, from blood-sugar (MacLean), 1919, 13, 136

sulphur in, storage of (Wilson), 1925, 19, 326

tryptic digestion of, effect of fat on (Maughan), 1926, 20, 1046

Protein, phosphotungstic acid precipitate in treatment of (Plimmer and Rosedale), 1925, 19, 1007

Protein content of muscle substance of herring (Bruce), 1924, 18, 477

Protein denaturation, effect of $p_H$ on (Lewis), 1926, 20, 968

kinetics of (Lewis), 1926, 20, 965, 978, 984

Protein Intake, effect of, on normal and tumour growth (Drummond), 1917, 11, 338

Protein-nitrogen of runner bean leaves, diurnal variations in (Chibnall), 1924, 18, 387

Protein salts, hydrolysis of, in diluted serum (Holker), 1921, 15, 241

Protein (serum)-calcium compound, undissociated (Marrack and Thacker), 1926, 20, 584

Protein storage, Rubner’s theory of (Truszkowski), 1926, 20, 444

Proteinases, vegetable nature of (Fisher), 1919, 13, 126

Proteins, action of hypochlorites on (Wright), 1926, 20, 524

action of paraaldehyde on (Cooper), 1924, 18, 948

adsorption of, by gels (Fodor and Reifenberg), 1925, 19, 189

analysis of (Plimmer), 1924, 18, 105; (Plimmer and Phillips), 1924, 18, 312; (Plimmer and Shimamura), 1924, 18, 322; (Plimmer and Rosedale), 1925, 19, 1004, 1015, 1026

arginine in, direct determination of (Plimmer and Rosedale), 1925, 19, 1020

biological value of (Martin and Robison), 1922, 16, 407

Proteins, cow and ox, investigation of, by racemisation method (Woodman), 1921, 15, 187

cytoplasmic, of runner bean leaves, diurnal variation of nitrogen of (Chibnall), 1924, 18, 390

denaturation of, effect of, on nitroprusside reaction (Walker), 1925, 19, 1083

denaturation of, increase in free carboxyl groups during (Mastin and Schryver), 1926, 20, 1177

determination of amide- and humin-nitrogen in (Plimmer and Rosedale), 1925, 19, 1005, 1011

determination of, by means of adsorption (Fodor and Reifenberg), 1925, 19, 188, 190

dialysis of, against calcium solutions (Marrack and Thacker), 1926, 20, 580

effect of, on glutathione in the oxidation of (Hopkins), 1925, 19, 787

effect of, on creatine excretion in the goat (Orr), 1918, 12, 220

Hausmann numbers of, determination of (Knaggs), 1923, 17, 488

Hausmann numbers of, micro-determination of (Thimann), 1926, 20, 1190

heat-coagulation of (Lepechkin), 1922, 16, 678

hydrolysis of, separation of amino-acids from products of (Buton and Schryver), 1921, 15, 636

insoluble in brine, increased production of, during heating of antitoxic sera containing sulphates (Homer), 1918, 12, 202

leaf, isolation of (Chibnall and Schryver), 1921, 15, 60

nitroprusside reaction of (Hopkins), 1925, 19, 806

oatmeal, dietetic value of (Hartwell), 1926, 20, 751

of concentrated antitoxic sera, effect of heat-denaturation of pseudoglobulin and albumin on nature of (Homer), 1917, 11, 292

cow’s colostrum (Dudley and Woodman), 1918, 12, 339

do of diet, replacement of, by amino-acid mixtures, effect upon tumour growth of (Drummond), 1917, 11, 355

do of eggs, distribution of nitrogen in (Plimmer and Rosedale), 1925, 19, 1015

do of meat, digestion of, by dogs with ligatured carotids (Zunz), 1918, 12, 42

plasma, rôle of, in diffusion (Milroy and Donegan), 1919, 13, 258

of runner bean leaves, distribution of nitrogen in (Chibnall), 1922, 16, 351

oxidation of, with glutathione, effect of $p_H$ on (Hopkins), 1925, 19, 808

oxidation of, with glutathione, rôle of “fixed SH group” in (Hopkins), 1925, 19, 501

photo-oxidation of (Harries), 1926, 20, 288

plant, isoelectric points of (Peersall and Ewing), 1924, 15, 325

precipitation of, by paraaldehyde (Cooper), 1924, 18, 948

pure, oxygen uptake of, in presence of glutathione (Hopkins), 1925, 19, 806
INDEX OF SUBJECTS

Proteins, relations of, to halogen-phenols (Cooper and Woodhouse), 1923, 17, 600
solubility of, in aldehydes and other organic solvents (Cooper and Nicholas), 1923, 19, 533
soluble, of leaf-cell cytoplasms (Chibnall and Grover), 1926, 20, 108, 111
suggested polydiketopiperazine structure of (Marston), 1923, 17, 857
thiodepsipeptide linkage in (Mastin and Schryver), 1926, 20, 1177

Proteolytic enzymes, nomenclature of (Fisher), 1919, 13, 124
doing the organic solvents (Fisher), 1919, 13, 133

Proteolytic power of pancreatic extracts, effect of heat on (Edie), 1921, 15, 503

Proteoses, solubility of, in aldehydes and other organic solvents (Cooper and Nicholas), 1925, 19, 333, 536

Prothrombin, association of, with fibrinogen (Pickering and de Souza), 1923, 17, 751

Protoplanctin (Tutin), 1923, 17, 510
determination of, in fruit (Carré), 1922, 16, 708, 709

Protospora (Hill and Holden), 1926, 20, 1331

Prototaxa, artificial culture of (Cutler and Crump), 1923, 17, 175
rate of reproduction of, effect of presence of bacteria on (Cutler and Crump), 1924, 18, 905

Prunus Armeniaca, oxidising enzymes of (Onslow), 1921, 15, 115

Prunus cerasus, oxidising enzymes of (Onslow), 1921, 15, 114

Prunus domestica, oxidase and peroxidase in (Onslow), 1920, 14, 545

Prunus Persica, oxidising enzymes of (Onslow), 1921, 15, 114

Pseudoglobulin and eglobulin of colostrum, comparison of the optical rotatory properties of, in alkaline solution (Dudley and Woodman), 1918, 12, 340, 345
and eglobulin of colostrum, racemised, comparative study of the optical properties of the amino-acids derived from hydrolysis of (Dudley and Woodman), 1918, 12, 340, 342
comparison of, with eglobulin, by racemisation method (Woodman), 1921, 15, 196
effect of changes in pH on heat-denaturation of (Homer), 1917, 11, 295
heat-denaturation of, effect of, on proteins of concentrated antitoxic sera (Homer), 1917, 11, 292
increased precipitability of, from heat-denaturated solutions (Homer), 1919, 13, 56
isolation of amino-acids from (Dudley and Woodman), 1918, 12, 347–9
preparation of, from cow's colostrum (Dudley and Woodman), 1918, 12, 344
Pteridium Aquilinum, pK of lesp-sap of (Chibnall and Grover), 1926, 20, 112

Pyalin, in salivary secretion of infants (Nicory), 1922, 16, 387

Punica Granatum, oxidising enzymes of (Onslow), 1921, 15, 116

Purine base phosphotungstates, properties of individual (Drummond), 1918, 12, 17
Purine bases in tumour extracts (Drummond), 1917, 11, 248
of nucleic acid, growth-promoting properties of (Mockeride), 1920, 14, 432

Purine derivatives in dogs, excretion of (Langfeldt and Holmsen), 1925, 19, 717

Purine metabolism (Truszkowski), 1926, 20, 437
in young and adult rats (Stewart), 1955, 19, 1101
do of Dalmatian hybrids (Onslow), 1923, 17, 564

Purine-nitrogen in beer (Sharpe), 1917, 11, 104

Purine synthesis in dogs (Langfeldt and Holmsen), 1925, 19, 721
in rats (Truszkowski), 1926, 20, 437, 442

Purines and diazo-reaction (Hunter), 1922, 16, 643
origin of, in body (Stewart), 1925, 19, 268
precursors of, arginine and histidine as (Stewart), 1925, 19, 268, 1101

Putrescine, synthesis of (Dudley and Thorpe), 1925, 19, 845

Putrescine phosphotungstate (Drummond), 1918, 12, 15

Pyrimidine bases of nucleic acid, growth-promoting properties of (Mockeridge), 1920, 14, 432

Pyrogallol test, Fearon's, as a possible basis for the determination of vitamin A (Willimott and Moore), 1926, 20, 569
for vitamin A, specificity of (Fearon), 1925, 19, 894

Pyrophosphate, effect of, on oxidation of hypoxanthine by xanthine oxidase system (Dixon and Thurlow), 1925, 19, 673

l-Pyrrolidinecarboxylic acid, alkaloidal salts of (Dakin), 1918, 13, 424

Pyruic acid, formation of, from lactic acid, by B. pyocyanes (Quastel, Stephenson and Whetham), 1925, 19, 311
in fermented fumarate medium (Quastel), 1924, 18, 372
possible role of, in bacterial growth (Quastel), 1925, 19, 641
production of, from lactic acid, by B. coli (Quastel, Stephenson and Whetham), 1925, 19, 310
Quebrachitol, in *Artemisia* species (Goodson), 1922, 10, 499, 490, 462
Quebrachotol, invertase in leaf of (Blagoveschenski and Sossiedov), 1925, 19, 353
leaf peptase of (Blagoveschenski and Biedorzski), 1925, 19, 356
Quinone, oxidase and peroxidase in (Onslow), 1920, 14, 542
Quinhydrone electrode, determination of dissociation constant of valine by use of (Harris), 1923, 17, 693
determination of hydrogen ion concentration of blood of normal males and cancer patients by (Corran and Lewis), 1924, 18, 1538
Quinoline compounds, absorption spectra of some (Ward), 1923, 17, 903
Quinols, bactericidal powers of halogen derivatives of (Cooper and Woodhouse), 1923, 17, 601
Quinone, addition compound of, with p-cresol (McCance), 1925, 19, 1030 carbolic acid coefficient of (Morgan and Cooper), 1921, 15, 593 interaction of, with caseinogen (Morgan and Cooper), 1921, 15, 589 reduction of, in xanthine oxidase-hypoxanthine system (Dixon), 1926, 20, 715 o-., significance of, in oxidase reaction (Onslow and Robinson), 1926, 20, 1138 Quinones, bactericidal action of (Morgan and Cooper), 1921, 15, 587, 591 o-., formation of, in tyrosinase-tyrosine systems (Raper and Wormald), 1925, 19, 99 Quinone-xanthine oxidase-hypoxanthine system, reduction potential of (Dixon), 1926, 20, 713 Quittenine from oxidation of quinine by hydrogen peroxide (Nierenstein), 1920, 14, 572

Racemisation curves of caseinogen and casein (Wright), 1924, 18, 246
Rachitic animals, chemical study of defective ossification in (Robison and Soames), 1925, 19, 153
deposition of calcium phosphate in bones of (Robison and Soames), 1924, 18, 746
Rachitic families, mineral content of milk in (Telfer), 1924, 18, 809
Rachitic serum, calcification in vitro with (Shipley, Kramer and Howland), 1926, 20, 383
Radioactivity, determination of lead by means of, in organic matter (Hevesy), 1923, 17, 439
Radium emnanation, dietic effects of irradiation of rats’ environment by (Chick and Tazelaar), 1924, 18, 1346
Raffinose in seed of jute plant, occurrence and preparation of (Annett), 1917, 11, 1, 5 inversion of, effect of Pm on (Brownlee), 1925, 19, 379
Rape oil, brassicasterol in (Ellis), 1918, 12, 157
Raspberry, peroxidase in (Onslow), 1920, 14, 547
Rat, adult, effect of diet deficient in arginine and histidine on (Stewart), 1925, 19, 1107 albino, nuclear-plasmatic ratio in (Truskowski), 1926, 20, 437 anaemic and pregnant, blood volume and total amount of haemoglobin in (Scott and Barcroft), 1924, 18, 1, 7 body-temperature of, effect of diet deficient in water-soluble factor on (Drummond), 1918, 12, 31 colour changes in fur of, produced by alterations in diet (Hartwell), 1923, 17, 547 diet of, brown and white bread in (Hartwell), 1924, 18, 1323 effect of cold storage on muscle of (Clifford), 1922, 16, 343 effect of darkness and ultra-violet radiation on (Goldblatt and Soames), 1923, 17, 294 effect of vitamin C on (Drummond), 1919, 13, 78 effect of water-soluble factor upon nutrition and nitrogen metabolism of (Drummond), 1918, 12, 25 growing, possible relation between dietary protein and loss of fur in (Hartwell), 1925, 19, 75 growing, relation between vitamin B and protein in diet of (Reader and Drummond), 1926, 20, 1256 growth and lactation of, on diet containing oats (Hartwell), 1926, 20, 754, 756 growth of, effect of absence of accessory food factors from diet on (Harden and Zilva), 1918, 18, 410, 414 growth of, effect of yeast-extract on (Drummond), 1918, 12, 39 keratomalacia in (Stephenson and Clark), 1920, 14, 502 lactating, relation of protein and vitamin B in diet of (Hartwell), 1924, 18, 785 lactating, vitamin B requirement of (Hartwell), 1925, 19, 1075 maltase in blood of (Compton), 1921, 15, 683 nutrition of, accessory factors in (Harden and Zilva), 1918, 12, 408
INDEX OF SUBJECTS

Rat on deficient diets, calcification in (Chick, Korenchevsky and Roscoe), 1926, 20, 622
on fat-soluble-deficient diet, effects of certain salts on (Korenchevsky and Carr), 1925, 19, 101
on milk diet, calcium deposition in, in relation to diet and management of the cow (Boas and Chick), 1924, 18, 433
standard breed of, for work on vitamins (Smith and Chick), 1926, 20, 131
standard dietaries for (Drummond), 1919, 13, 78, 82
technique of breeding (Hartwell, Mottram and Mottram), 1923, 17, 208
young, effect of excess protein in diet of mothers on development of (Hartwell), 1921, 15, 565 et seq.
young, egg-white as sole source of nitrogen for (Boas), 1924, 18, 422, 1322
young, rate of growth of, effect of diet deficient in histidine and arginine on (Stewart), 1925, 19, 1103
xerophthalmia in (Bulley), 1919, 13, 103
Rat sarcoma, Jensen's, metabolic differences, following X-irradiation, between normal rats and rat immune to (Dodds, Lawson and Mottram), 1925, 19, 750
Reaction, see Hydrogen ion concentration
Reducing coefficients of sugars and amino-acids with respect to B. coli (Quastel and Whetham), 1925, 19, 651
Reducing reactions in milk (Haas and Hill), 1923, 17, 672; (Haas and Lee), 1924, 18, 614
Reducing substance in human blood, nature of (Cooper and Walker), 1922, 16, 455
Reducing substances of brain, in normal and insulinised rabbits (Holmes and Holmes), 1925, 19, 493
Reduction, in vivo, theory of mechanism of (Quastel), 1926, 20, 186
Reduction potential indicators (Clark's), as hydrogen acceptors in xanthine oxidase system (Dixon), 1926, 20, 713
Rennin, action of, on milk (Wright), 1924, 18, 245
gastric, and pepsin, question of identity of (Edie), 1921, 15, 507
in rabbits' gastric mucosa (Edie), 1921, 15, 508
Reproduction of Colpidium in artificial culture, rate of (Cutler and Crump), 1923, 17, 174; 1924, 18, 905; 1925, 19, 450
of infusoria, in cultures of two individuals, rate of (Robertson), 1921, 15, 612
of rats, comparison of effect of white and brown bread diets on (Hartwell), 1924, 18, 1324
of rats on synthetic diets (Hartwell), 1926, 20, 1273
Reptilia, carnosine in (Clifford), 1921, 15, 731
Resin, lignin and, relationship between (Mehta), 1925, 19, 984
Resins, iodine values of, abnormal (Smedley MacLean and Thomas), 1921, 15, 319
Resorcinol, addition of, with diethylamine (McCance), 1925, 19, 1030
Respiration of B. coli communis on different media (Stephenson and Whetham), 1924, 18, 498
Respiration, plant, function of lecithins in (Gallagher), 1923, 17, 515, 521
Respiration substance, Meyerhof's discussion of nature of (Holden), 1924, 18, 535
Respiratory exchange in freshwater fish (Gardner and King), 1922, 16, 729, 736
in pike (Gardner and King), 1923, 17, 170
of the mussel (Bruce), 1926, 20, 829, 845
Respiratory quotient and standard metabolism, correlation between (Krogh and Lindhard), 1920, 14, 350
change in, during work (Krogh and Lindhard), 1920, 14, 354, 357
of trout and goldfish (Gardner, King and Powers), 1922, 16, 529
Rheum rhabdonicum, pT of leaf-sap of (Chibnall and Grover), 1926, 20, 112
Rhizomes, phytosterols in (Ellis), 1918, 12, 163
Ribes species, oxidising enzymes of (Onslow), 1921, 15, 115
Rickets and rate of growth, relation between (Mellanby and Killick), 1926, 20, 906
criteria of (Korenchevsky), 1926, 20, 151;
(Chick, Korenchevsky and Roscoe), 1926, 20, 625
effect of calcium carbonate on (Korenchevsky and Carr), 1926, 20, 872
in rats on a diet deficient in phosphorus and fat-soluble factor (Goldblatt), 1924, 18, 414
in rats, prevention of, by cow's milk (Boas and Chick), 1924, 18, 433
in rats, production of, by raising calcium-phosphorus ratio in diet (Goldblatt), 1924, 18, 415
in rats, relation of quantity of fat-soluble factor in diet to development of (Goldblatt), 1923, 17, 298
production of, and calcium-phosphorus ratio in diet (Mellanby and Killick), 1926, 20, 909
River waters in Great Britain, chemical characters of (Cooper, Cooper and Heward), 1919, 13, 347
Rivers, self-purification of (Cooper, Cooper and Heward), 1919, 13, 345, 356
Rochelle salt, effect of administration of, on creatinine content of urine (Burns), 1920, 14, 94
Rodentia, carnosine in (Clifford), 1921, 15, 733
Roots, phytosterols in (Ellis), 1918, 12, 163
Rosenheim test for tryptophan, explanation of (Fearn), 1920, 14, 551
Rubber, Hevea, reactions of a sterilin from (Whitty), 1923, 17, 3
Rubus fruticosus, oxidising enzymes of (Onslow), 1920, 14, 115
Rubus idaeus, peroxidase in (Onslow), 1920, 14, 547
Rumex acetoseUa, pT of leaf-sap of (Chibnall and Grover), 1926, 20, 112
INDEX OF SUBJECTS

_Rumex obtusifolius_, leaves of, carbohydrate enzymes of (Chapman), 1924, 18, 1391

_Ruminants_, blood of, phosphorus content of (Kay), 1925, 19, 447

_Runner bean_, distribution of nitrogen in dead leaves of (Chibnall), 1922, 16, 608; distribution of nitrogen in leaves of (Chibnall), 1922, 16, 344; effect of low temperature drying on distribution of nitrogen in leaves of (Chibnall), 1922, 16, 590

_Saccharic acid_, action of _B. lactis aerogenes_ on (Kay), 1926, 20, 326

_Saccharomyces cerevisiae_ and _S. ellipsoides_, synthesis of vitamin B by (Harden and Zilva), 1921, 15, 438; cultures of, from single cells (Peskett), 1924, 18, 866; growth of, and alleloecalysis (Peskett), 1924, 18, 866; nitrogen metabolism in (Lampitt), 1919, 13, 569

_Salicornia herbacea_, invertehas of leaf (BGovgoueschesaki and Sossidsev), 1925, 19, 354

_Saliva_ and milk clotting (Nakagawa), 1922, 16, 391; diastatic activity of, effect of different substances on (Walker), 1925, 19, 221, 223; sorption of copper sulphate by (Seth), 1923, 17, 619

_Salivary digestion_, effect of halogen salts on (Clifford), 1925, 19, 218

_Salivary secretion_ in infants (Nicory), 1922, 16, 387; relation of, to gastric (Nakagawa), 1922, 16, 390

_Salkowski reaction_ for sterols (Whitby), 1923, 17, 9

_Salt_, use of, in cooking dried legumes (Masters), 1918, 12, 240

_Salt effect_, in alcoholic fermentation (Harden and Henley), 1921, 15, 312

_Salt mixture_, composition of, for feeding experiments on man (Robison), 1922, 16, 118

_Salts_, various, effects of ingestion of, by cow, on plasma-calcium and the yield and composition of milk (Mattick and Wright), 1925, 19, 915

_Sand_, manganese content of (Berkeley), 1922, 16, 76

_Santonin_ from _Artemisia_ species (Goodson), 1922, 16, 489

_Saponin_, haemolytic action of (Pickering and Taylor), 1923, 17, 918

_Saponin haemolysis_, inhibition of, by serum, sugars and starch (Kennedy), 1925, 19, 319, 321; inhibition of, by sugars (Ponder and Kennedy), 1926, 20, 237

_Saponins_, physiological action of (Ransom), 1922, 16, 674, 675

_Sarcina aurantiaca_, lipochromes in (Reader), 1925, 19, 1040; oxygen uptake of (Callow), 1924, 18, 513

_Sarcoma_, glutathione content of (Holmes), 1926, 20, 813

_Sarcoma_, Jensen's rat, metabolic differences, following X-radiation, between normal rats and rats immune to (Dodds, Lawson and Mottram), 1925, 19, 750; Jensen's rat, oxidation processes of (Fleisch), 1924, 18, 394

_Sarcomel_, oxidative deamination of, in vitro (Farron and Montgomery), 1924, 18, 580

_Sawdust_, antirachitic action of, after irradiation (Rosenheim and Webster), 1926, 20, 1342; irradiated, action of, on photographic plate (Lucas), 1926, 20, 23; part played by, in effect of irradiation of the environment of rats on a diet deficient in fat-soluble vitamins (Hume and Smith), 1924, 18, 1334; 1926, 20, 335

_Saxifraga cordifolia_, _pH_ of leaf-sap of (Chibnall and Grover), 1926, 20, 112

_Scatole_, aldehyde condensation derivatives of (Farron), 1920, 14, 548

_Schardinger enzyme_, possible identity of, with xanthine oxidase (Dixon and Thurlow), 1924, 18, 985; (Morgan), 1926, 20, 1290

_Schizomyces_, action of, upon cotton (Fleming and Thaysen), 1920, 14, 25

_Scleranematous infants_, subcutaneous fat of (Channon and Harrison), 1926, 20, 84

_Scopoletin_, in _Artemisia_ species (Goodson), 1922, 16, 489, 490, 492

_Scurvy_, bicarbonate of plasma and hydrogen ion concentration of blood of guinea-pigs suffering from (Lepper and Zilva), 1925, 19, 581; constipation as cause of (Chick, Hume and Skelton), 1918, 12, 145; (Harden and Zilva), 1918, 12, 270; experimental, histological diagnosis of (Tozer), 1918, 12, 445; fresh milk as a preventive of (Chick, Hume and Skelton), 1918, 12, 131, 138; histology of lymphoid tissues during (Wright), 1921, 15, 701; in guinea-pigs, diets leading to and symptoms of (Chick, Hume and Skelton), 1918, 12, 133, 135, 138; in guinea-pigs, effect of addition of autoclaved milk to dried cabbage diet on development of (Delf and Skelton), 1918, 12, 458-62; in guinea-pigs, effect of heated milk and dried milk on (Chick, Hume and Skelton), 1918, 12, 136; in guinea-pigs, effect of unbalanced diet in production of (Findlay), 1921, 15, 355; in guinea-pigs, etiology of (Harden and Zilva), 1918, 12, 270; in pigs (Plimmer), 1920, 14, 570; in pigs (Zilva, Golding and Drummond), 1924, 18, 876; in rabbits, occurrence of (Mellanby and Killick), 1926, 20, 905; infantile, use of heated or dried milk in infant feeding and occurrence of (Chick, Hume and Skelton), 1918, 12, 149; minimum dose of _Citrus_ fruit-juices for protection of guinea-pig from (Davey), 1921, 15, 83

G 2
INDEX OF SUBJECTS

**Scurvy**, minimum dose of dried milk for protection of guinea-pigs from (Jephcott and Bacharach), 1921, 15, 136

toxin and post mortem signs of (Delf), 1918, 12, 418, 419

_See also_ Antiscorbutic and Vitamin C

**Sea-anemones**, colours of (Elmhirst and Sharpe), 1920, 14, 48

**Sea-urchins**, artificial parthenogenesis in (Frost), 1923, 17, 418

**Sea-water**, action of, on cotton and other textile fabrics (Dorcé), 1920, 14, 709
determination of oxygen of (Bruce), 1926, 20, 534
determination of Si, P and As in (Atkins and Wilson), 1926, 20, 1282
 supersaturation with oxygen of (Butler and Coste), 1923, 17, 51

**Sea-weeds**, vitamin A in (Coward and Drummond), 1921, 15, 553, 553

**Seeds**, dry and germinated, antiscorbutic value of (Chick and Delf), 1919, 13, 199

germinated, vitamin A in (Coward and Drummond), 1921, 15, 531, 538

germinating, protein in (Fodor and Reifenberg), 1925, 19, 192
 phyto-esteroses in (Ellis), 1918, 12, 161
 proteoclastic enzymes in (Fisher), 1919, 13, 131
 vitamin B content of, effect of age on (Findlay), 1923, 17, 887

**Selachyl alcohol**, isolation of, from liver oil of _Squalus_ (Weidemann), 1926, 20, 689

**Selachyl diphthalic ester acid**, salts of (Weidemann), 1926, 20, 689

**Self-purification** of rivers and streams (Frost), 1923, 17, 418

**Semen**, spermine phosphate in (Rosenheim), 1924, 15, 1286

**Semicarbazide**, action of hypobromite on (Hurtley), 1921, 15, 16

**Semipermeable membranes**, structures in elastic gels caused by formation of (Hatschek), 1922, 15, 475

**Sera**, antiscorbutic and antimeningitic, association of the antitoxins with proteins in (Homer), 1920, 14, 42
 antitoxic, concentrated, effect of heat denaturation of pseudoglobulin and albumin on the nature of the proteins of (Homer), 1917, 11, 292
 antitoxic, concentration of, at different hydrogen ion concentrations (Homer), 1918, 12, 193
 antitoxic, concentration of, by heating and adding sodium chloride (Homer), 1918, 12, 190
 antitoxic, containing sulphates, concentration of (Homer), 1918, 12, 203
 antitoxic, effect of phenol and cresylic acid on the concentration of, by the Banzhaf (1915) process (Homer), 1917, 11, 277
 antitoxic, heat-denatured in presence of cresylic acid or electrolytes, salting out of (Homer), 1918, 12, 197, 199
 antitoxic, precipitation of antitoxin fraction of (Homer), 1919, 13, 46
 antitoxic, precipitation of, by sodium and ammonium sulphate (Homer), 1919, 13, 278

**Sera**, antitoxic, reaction of, in relation to concentration processes (Homer), 1917, 11, 21
 fractionation of end-products from (Homer), 1919, 13, 51
 heat-denatured, separation of antitoxin and associated proteins from (Homer), 1919, 13, 45
 mammalian, glycogenolytic activity of (Compton), 1923, 17, 536
 mammalian, positive and negative maltase groups of (Compton), 1923, 17, 536
 uraemic, diazo-reaction in (Hewitt), 1925, 19, 171

**Serin**, isoelectric point of (Kodama), 1926, 20, 1213
 preparation of, from silk, and physico-chemical properties of (Kodama), 1926, 20, 1208

**Serin-peptone** from silk (Kodama), 1926, 20, 1218
 iso-serine, comparison of, with hydroxyaspartic acid (Dakin), 1919, 13, 405

**Serine**, removal of, from hydrolysis products of caseinogen (Foreman), 1919, 13, 390

**Serum**, antitryptic action of (Young), 1918, 12, 490
 deproteinisation of, effect of, on various constituents of (Mukai), 1921, 15, 517, 519
determination of calcium in (Trevan and Bainbridge), 1926, 20, 423
dialysis of, against calcium solutions (Marrack and Thacker), 1926, 20, 587
 diluted with various solutions, opacity of (Hokker), 1921, 15, 238
 effect of, on haemolysis (Kennedy), 1925, 19, 318
 effect of, on haemolysis by soaps (Ponder), 1924, 18, 845
 guinea-pig, inactivation of, by yzmin (Whitehead, Gordon and Wormald), 1925, 19, 622
 human, calcium content of, in cases of gout (Coates and Raiment), 1926, 18, 921
 human, experimental alterations of calcium content of (Stewart and Haldane), 1924, 18, 835
 hydrolysis of protein salts in (Holker), 1921, 15, 241

**Serum-proteins**, of normal and immunised rabbits (Davies, Dickens and Dodd), 1926, 20, 695

**Serum-calcium**, effect of, on precipitation of (Homer), 1918, 13, 48
 heat-denaturation of, effect of time of heating on (Homer), 1917, 11, 293
INDEX OF SUBJECTS

Sewage effluents, heat-denaturation of, factors affecting (Homer), 1918, 12, 190
Sewage, effect of, on cow and ox, comparison of (Woodman), 1921, 18, 191, 196, 198
Sewage-uflltrate, nature of the sugar in (van Creveld), 1923, 17, 868
Sesame oil, use of, in diet (Chick), 1926, 20, 125
vitamin A deficiency of (Delf), 1924, 18, 94
Sexual serum-ultrafiltrate, determination of (Chick), 1924, 18, 20,
Silicon, precipitation of fractions of (Homer), 1919, 13, 45
Sewage effluents, dissolved oxygen absorption test for quality of (Cooper and Cooper), 1918, 12, 275
effect of various waters on rate of dissolved oxygen absorption by (Cooper and Cooper), 1918, 12, 276
standardisation of (Cooper and Cooper), 1918, 12, 277
Sewage purification by denitrification (Cooper), 1924, 15, 513
importance of geological factors in (Cooper and Cooper), 1918, 12, 275
Sewage tank liquor, reduction of nitrates by (Cooper), 1921, 15, 514
Sexual maturity, effect of, upon chemical constitution of muscle substance of herring (Bruce), 1924, 18, 478
Shark, Greenland, unsaponifiable fraction of liver oil of (Weidemann), 1926, 20, 685
Sheep, malaise in blood of (Compton), 1921, 15, 683
milk-fat of, distribution of fatty acids in the (Crowther and Hynd), 1917, 11, 139
Ship-worm, see Teredo norvegica
Shock, surgical, effect of, on inorganic phosphate and total phosphorus of blood (Martland and Robison), 1924, 18, 768
Silica, presence of, in bile (Mair), 1917, 11, 11
Silica jelly, preparation of, for use as a bacteriological medium (Legg), 1919, 13, 107
Silicon, determination of minute amounts of, colorimetric (Atkins and Wilson), 1926, 20, 1223
Silk, dyeing of, by extracts of natural brown oak (Tinkler), 1921, 15, 484
“fuming” of, by extracts from oak and ammonia (Tinkler), 1921, 15, 481
preparation of sericin from (Kodama), 1926, 20, 121
Silks, artificial, rate of decay of, by action of micro-organisms (Thaysen and Bunker), 1925, 19, 1088, 1093
artificial, rate of destruction of, when submerged in sea-water (Thaysen and Bunker), 1925, 19, 1092
Silkworm, carbohydrate metabolism of (Jameson and Atkins), 1921, 15, 212
enzymes of (Jameson and Atkins), 1921, 15, 211
hydrogen ion concentration of (Jameson and Atkins), 1921, 15, 210
physiology of (Jameson and Atkins), 1921, 15, 209
Singapore, alkaline tide in inhabitants of (Campbell), 1920, 14, 603
Singapore, dietary habits of races in (Campbell), 1919, 13, 240
excretion of ammonia and amino-acids in (Campbell), 1920, 14, 603
Sitosterol, action of ultra-violet light on (Rosenheim and Webster), 1926, 20, 543
in “patent” flour (Rosenheim and Webster), 1926, 20, 538
in wheat plants (Ellis), 1918, 12, 166, 169
possible presence of, in cabbage seeds and grass fruits (Ellis), 1918, 12, 157
Skeleton, effect of milk diet on (Korenchevsky and Carr), 1923, 17, 187
of rats on fat-soluble-deficient diet, effects of certain salts on (Korenchevsky and Carr), 1925, 19, 101
Skin, biochemistry of (Kaye and Jordan Lloyd), 1924, 18, 1043
blue fluorescent substance of, in ultra-violet light (Kinnersley, Peters and Squires), 1925, 19, 408
melanin of, extraction of, by dilute alkali (Young), 1921, 18, 118
protein properties of (Kaye and Jordan Lloyd), 1924, 18, 1041
substance giving the nitroprusside reaction in (Kaye), 1924, 18, 1289
sulphhydryl constituent of, properties of (Walker), 1925, 19, 1086
sulphuric acid reaction of (Walker), 1925, 19, 1085
swelling of (Kaye and Jordan Lloyd), 1924, 18, 1043, 1045
Skin vesication, “acid” theory of (Peters and Walker), 1923, 17, 290
Sleep and urinary acidity (Campbell and · Webster), 1922, 16, 511
effect of, on inorganic phosphate of blood (Havard and Reay), 1925, 19, 584
Smell (Watson), 1922, 16, 613
Snowdrop, leaves of, carbohydrate enzymes of (Chapman), 1924, 18, 1391
Soaps, calcium, solubilities of (Harrison), 1924, 18, 1222
determination of, in faces (Sharpe), 1917, 11, 96
effect of, on bacterial fermentation of glucose (Wolf), 1923, 17, 817
haemolytic action of (Ponder), 1924, 18, 845
surface tension of solutions of (Ponder), 1924, 18, 850
Sodium and calcium ions, antagonism between, with reference to growth (Cramer), 1918, 12, 211, 215
and calcium ions, water content of tumour cells treated with (Cramer), 1918, 12, 214, 217
balance, of growing pig (Richards, Godden and Husband), 1924, 18, 656
Sodium acetate, action of yeast on (Smedley MacLean and Hoffert), 1926, 20, 346
effect of, on fermentation (Katagiri), 1926, 20, 428, 432
Sodium acetocetate, action of yeast on (Smedley MacLean and Hoffert), 1926, 20, 350
Sodium butyrate, action of yeast on (Smedley MacLean and Hoffert), 1926, 20, 350
Sodium chloride, effect of, on fermentation (Katagiri), 1926, 20, 430, 433
Sodium chloride, effect of, on growth of transplanted tumour in mice (Cramer), 1918, 12, 210
inhibitory effect of, on reducing power of blood-filtrates and sugar solutions (Cooper and Walker), 1921, 15, 419
penetration of, into gelatin and agar-agar gels (Stiles and Adair), 1921, 15, 622
Sodium glycollate, action of yeast on (Smedley MacLean and Hoffert), 1926, 20, 346
Sodium glyoxylate, action of yeast on (Smedley MacLean and Hoffert), 1926, 20, 346
Sodium lactate, action of yeast on (Smedley MacLean and Hoffert), 1926, 20, 345
Sodium oxalate, action of yeast on (Smedley MacLean and Hoffert), 1926, 20, 345
Sodium phosphotungstate (Drummond), 1918, 12, 21
Sodium-potassium glycoilate, glyoxylate, -hydroxybutyrate, chloride, sodium 102
heat of solution of (Haldane), 1921, 18, 419, 484-90
1926, 12, 290
Sodium sulphate, coefficient of diffusion of, in gelatin and agar-agar (Stilese), 1921, 15, 631
Sols, examination of constituents of (Moc-keridge), 1920, 14, 432
Solanum lycoperiscum, oxidising enzymes of (Onslow), 1921, 15, 116
Solanum tuberosum, dielectric points of proteins from (Pearsall and Ewing), 1924, 18, 336
Sol-gel transformation, reversible (Bradford), 1918, 12, 351
Solutions, boiling points of (Haldane), 1918, 12, 490
diffusion pressure of, application of, to physiology and physical chemistry (Haldane), 1918, 12, 488, 498
vapour pressures of (Haldane), 1918, 12, 454-90
viscosity of (Arrhenius), 1917, 11, 112
Solvents, partially miscible, extraction of amino-acids by means of (Dakin), 1918, 12, 290
Sornium microcephalus, liver oil of, unsaponifiable fraction of (Weidemann), 1926, 20, 685
Sorbitol, apple-juice as source of (Tutin), 1925, 19, 416
heat of combustion of (Davis, Slater and Smith), 1926, 20, 1160
preparation and properties of (Davis, Slater and Smith), 1926, 20, 1155, 1162
Sørensen's phosphate solutions, preparation of (Martin), 1920, 14, 98
Sow's milk and colostrum, diets resembling (Zilva, Golding, Drummond and Coward), 1921, 15, 429
Specific dynamic action of amino-acids, and metabolism, relation between (Seth and Luck), 1925, 19, 306
Spectra, absorption, of a lipochrome (Currie), 1924, 18, 240
Spectra, absorption, of amino-acids (Ward), 1923, 17, 898
absorption, of haematoporphyrin, metallic derivatives of (Hill), 1925, 19, 345
absorption, of indole derivatives (Ward), 1925, 17, 891
absorption of kynurenic acid (Ward), 1923, 17, 903
absorption, of quinoline compounds (Ward), 1923, 17, 903
Spectroscopes, diffraction and prismatic, respective merits of (Milroy), 1918, 12, 318
Spermine salts, in human semen (Rosenheim), 1924, 18, 1257
Spermine, action of nitrous acid on (Dudley, Rosenheim and Starling), 1926, 20, 1082, 1090
distribution of, in animal tissues and yeast (Dudley and Rosenheim), 1925, 19, 1035
identity of musclumaine, neuridine and gerontine with (Dudley and Rosenheim), 1925, 19, 1034
isolation of, from animal tissues (Dudley, Rosenheim and Rosenheim), 1924, 18, 1263
methylation of (Dudley and Rosenheim), 1925, 19, 1032
oxidation of (Dudley, Rosenheim and Starling), 1926, 20, 1090
structure and synthesis of (Dudley, Rosenheim and Starling), 1926, 20, 1082
Spermine phosphate (Dudley, Rosenheim and Rosenheim), 1924, 18, 1267
isolation of, from semen and testes (Rosenheim), 1924, 18, 1233
Spermine salts, preparation of (Dudley, Rosenheim and Rosenheim), 1924, 18, 1263
Sphagnum, examination of constituents of (Moc-keridge), 1920, 14, 432
examination of, for a phytosterol (Ellis), 1918, 12, 173
Spherites in relation to gel structure (Bradford), 1918, 12, 357
of gelatin (Bradford), 1920, 14, 91
Spinacea oleracea, p9 of leaf-sap of (Chibnall and Grover), 1926, 20, 112
Spinacene, see Squalene
Spinach, antirachitic value of (Chick and Roscoe), 1926, 20, 137, 142
effect of, on calcium and phosphorus metabolism (Boas), 1926, 20, 156, 161
irradiated, effect of, on calcification (Chick and Roscoe), 1926, 20, 148
leaf-proteins of (Chibnall and Schryver), 1921, 15, 73
sun-dried, antineuritic and antiscorbutic properties of (Shorten and Ray), 1921, 15, 278, 283
winter, antirachitic value of (Boas), 1926, 20, 153
vitamin A in protein extract from (Coward and Drummond), 1921, 15, 536, 538
Spinenc, autolyzing, increase of ammonia and urea in (McCance), 1924, 18, 457
effect of, on red blood-corpuscles (Bolt and Heeres), 1922, 16, 754
enzymes of, effect of oxygen on production of urea by (McCance), 1925, 19, 134
phosphoric esterases in (Robison and Soames), 1924, 18, 743
INDEX OF SUBJECTS

Sponges, constitution of (Clancey), 1926, 20, 1186

Spruce, autumn and spring wood of, distribution of lignin in (Mehta), 1925, 19, 967

Squalene, action of ultra-violet light on (Rosenheim and Webster), 1926, 20, 542

feeding experiments with (Channon), 1926, 20, 400

Stachydrine phosphotungstate (Drummond), 1918, 12, 18

Staphylococcus pyogenes aureus, bactericidal action of quinones on (Morgan and Cooper), 1921, 15, 501

oxygen uptake of (Callow), 1924, 18, 513

derivedase of (Callow), 1926, 20, 248

Staphylospus, destruction of, effect of temperature on (Brownlee), 1925, 19, 381

Starch, composition of (Mellanby), 1919, 13, 28

determination of (Whitby), 1923, 17, 5, 9

determination of, critical study of methods of (Gardner and Williams), 1921, 15, 363

determination of, in biological materials (Gardner and Williams), 1921, 15, 372

digitonides of, properties of (Gardner and Williams), 1921, 15, 364

iodine values of, abnormal (Smedley MacLean and Thomas), 1921, 15, 319, 327

irradiated, antirachitic properties of (Hume and Smith), 1926, 20, 341 (Rosenheim and Webster), 1926, 20, 537

Liebmann-Burchard and Lifschütz reactions for (Whitby), 1923, 17, 11

plants (Ellis), 1918, 12, 160, 173

Stilton cheese, B. proteus vulgaris isolated from, production of diacolouration of (Cornish and Williams), 1917, 11, 180

Stimulation and permeability of cell (Haynes), 1921, 15, 458

Stomata, leaf, possible mechanism for controlling the opening of (Chapman), 1924, 18, 1397

Storage, effect of, on the antiscorbutic value of fruits and vegetable-juice (Delf), 1925, 19, 141

Stratification, adsorptive, in gels (Bradford), 1917, 11, 14; 1920, 14, 29, 474

Stratifications, Liesegang, series of abnormal (Hatschek), 1920, 14, 418

Strawberry, oxidising enzymes of (Onslow), 1921, 15, 115

straw, of cereals, cellulose-a and lignin in (Mehta), 1925, 19, 976

Streams, self-purification of (Cooper, Cooper and Heward), 1919, 15, 345

Streptococcus, growth of, and phosphates (Whitehead), 1926, 20, 1147

growth of, on fractions of tryptic digest of caseinogen (Whitehead), 1924, 18, 829

growth of, substances essential for, in caseinogen broth (Whitehead), 1923, 17, 744

Streptococcus acidii lactici, oxygen uptake of (Callow), 1924, 18, 513

peroxidase of (Callow), 1926, 20, 248

Streptothrix, action of, on cotton (Fleming and Thayasen), 1920, 14, 25

Streptothrix corallinus, lipochromes in (Reader), 1925, 19, 1043

Strontium chloride, production of acidosis by ingestion of (Haldane), 1925, 19, 249

Substrate and enzyme, combination of (Briggs), 1926, 20, 574

Substrate concentration, effect of, on hydrolysis of starch by amylase of germinated barley (Edie), 1926, 20, 1016

Succeiae, fumaric and malic acids, equilibrium existing between, in the presence of resting bacteria (Quastel and Whetham), 1924, 18, 519

Succinic acid, determination of, in presence of lactic acid and of peptone (Grey), 1917, 11, 134, 137

effect of B. coli on, in presence of ammonia (Quastel and Woolf), 1926, 20, 553

fermentation of, by B. pyocyaneus and by B. fluoreseens liqu. (Quastel), 1924, 18, 365

formation of, from fumarates, by B. coli (Quastel, Stephenson and Whetham), 1925, 18, 317
Succino-dehydrogenase, carbohydrate

Succinimide

Sugars, antiscorbutic derivatives, Sugar of, effect of, fermentation of, of, oxidation of, production of, from blood-, blood-, blood-

of, nature of, excreted time, determination of, (Moyle), 1925, 19, 517

broth and water, 1925, Brown), influenced yeast (Moyle), 1926, 20, 549

INDEX OF SUBJECTS

Succinyldehydrogenase, formation of, in red and white muscle (Moyle), 1924, 18, 356

growth of B. coli communis on (Stephenson and Whetham), 1924, 18, 504

in muscle, quantitative study of (Moyle), 1924, 18, 351

oxidation of, by washed normal and cancer tissues (Fleisch), 1924, 18, 301

production of, from alkali butyrates by oxidation (Cahen and Hurtle), 1917, 11, 164

production of, from aspartic and fumaric acids, by resting B. coli (Quastel and Woolf), 1926, 20, 549

resistance of, to dichromate oxidation (Grey), 1923, 17, 770

Succinimide mercury, bactericidal action of, in water, broth and serum (Henry, Sharp and Brown), 1925, 19, 517

Succino-dehydrogenase (Fleisch), 1924, 18, 307

Succinoxidase (Fleisch), 1924, 18, 303

Sucrose, carbohydrate and fat metabolism of yeast influenced by (Smedley MacLean and Hoffert), 1923, 17, 728

fermentation of, effect of acetaldehyde on (Harden and Henley), 1921, 15, 176

fermentation of, in presence of sodium phosphate (Lebedev), 1918, 12, 87

Succrose solutions, osmotic pressures of (Hal dane), 1918, 12, 475-9, 494-5

Sugar blood, determination of (MacLean), 1919, 13, 135; (Ponder and Howie), 1921, 15, 171; (Calvert), 1923, 17, 117; 1924, 18, 839; (Stanford and Wheatley), 1924, 18, 22

blood-, determination of, by Lewis-Benedict method (Guy), 1921, 15, 575

blood-, determination by picric acid method (de Wesselow), 1919, 13, 148

blood-, determination of, by sodium 3,5-dinitrosalicylate (Paton), 1924, 18, 965

blood-, determination of, colorimetric (Paton), 1924, 18, 965

blood-, determination of, in small quantities (Tervaert), 1925, 19, 541

blood-, nature of (Lund and Wolf), 1926, 20, 259

distribution of, in human blood (Dowds), 1926, 20, 1173

excreted in normal urine, type of (Tallerman), 1924, 18, 583

in laked blood, changes in, during autolysis (Marland, Hansman and Robison), 1924, 18, 1157

time relationship of, changes in phosphate excretion caused by (Sokhey and Allan), 1924, 18, 1170

Sugar derivatives, nitrogenous, action of nitric acid on (Hynd and Macfarlane), 1926, 20, 1264

Sugar excretion, relation of, to diet in glycosuria (Mellanby and Box), 1919, 13, 65

Sugar solutions, reducing power of, inhibited by sodium chloride (Cooper and Walker), 1921, 15, 419

Sugars, antiscorbutic potency of, tests for (Harden and Zilva), 1918, 12, 271

degradation of, by corpuscles of rabbit (Irving), 1926, 20, 1320

determination of, iodometric (Judd), 1920, 14, 255; (Baker and Hulton), 1920, 14, 754

Sugar, effect of, on conductivity of plant juices (Haynes), 1919, 13, 114

effect of, on diastatic activity of saliva (Walker), 1925, 19, 223

effect of, on haemolysis (Kennedy), 1923, 19, 318

efficacy of various, and their derivatives in relieving symptoms caused by insulin (Herr ing, Irvine and Macleod), 1924, 18, 1023

inhibitory effect of, on saponin haemolysis (Kennedy), 1925, 19, 320; (Ponder and Kennedy), 1926, 20, 237

of vine-sap (Wormald), 1924, 18, 1197

reducing, introduced into the circulation, possible occurrence of stereochemical changes in (Hewitt and de Souza), 1921, 15, 667

reducing, stereochemical changes undergone by, in alimentary canal and peritoneal cavity (Hewitt and Pryde), 1920, 14, 395

γ-, structure of (Prady and Humphreys), 1926, 20, 825

Sulphate, antitoxic sera containing, concentration and heating of (Homer), 1918, 12, 199, 202

etheral, amounts of, produced in urine by special diets (Distaso and Sugden), 1919, 13, 106

etheral, constancy of relative output of, after administration of halogen-substituted benzenes (Hele), 1924, 18, 586

etheral, in bile of hippopotamus (Gardner), 1924, 18, 780

etheral, in extracts of carrageen (Haas), 1921, 15, 474

etheral, synthesis of, in the dog (Hele), 1924, 18, 110

sodium, fate of, when administered to dogs (Hele), 1924, 18, 597, 601

Sulphates, coefficients of diffusion of, in water, gelatin and agar-agar (Stiles), 1921, 18, 630

Sulphite, effect of, on metabolism of yeast (Smedley MacLean and Hoffert), 1926, 20, 351

Sulphonic acid groups and cell reduction potentials (Dixon), 1926, 20, 715

Sulphur and nitrogen metabolism, relation between (Wilson), 1925, 18, 322
determination of total, in urine (Robison), 1922, 16, 134

neutral, constancy of relative output of, after administration of halogen-substituted b enzenes (Hele), 1924, 18, 586

neutral, excretion of by the dog, relation of, to diet (Hele), 1924, 18, 604

production of organic compounds of, in bacterial cultures (McLeod and Gordon), 1924, 18, 937

Sulphur excretion, variations in protein metabolism as indicated by (Craig and Haring ton), 1924, 18, 85

Sulphur metabolism (Wilson), 1926, 20, 76

do of the dog (Hele), 1924, 18, 586; (Callow and Hele), 1926, 20, 588; (Coombs and Hele), 1926, 20, 606

Sulphur-nitrogen ratio, effect of gelatin diet on (Wilson), 1926, 20, 77

Sulphphydryl compounds, production of in meat broth, by bacteria (McLeod and Gordon), 1924, 18, 937
INDEX OF SUBJECTS

Sulphydryl group, “fixed,” reduction of oxidised glutathione by (Hopkins), 1925, 19, 501
“fixed,” rôle of, in oxidation of proteins promoted by glutathione (Hopkins), 1925, 19, 501

Sulphydryl reaction of skin (Walker), 1925, 19, 1083

Sunflower seeds, dried, green and germinated, vitamin A in (Coward and Drummond), 1921, 15, 532

Sunflower shoots, etiolated and green, vitamin A in unsaponifiable matter of (Coward and Drummond), 1921, 15, 538

Sunlight, effect of, on cholesterol (Rosenheim and Webster), 1926, 20, 539
effect of, on rickets in pigs (Zilva, Golden, and Drummond), 1924, 18, 874
effect of, on vitamins A and D content of milk (Luce), 1924, 18, 716, 1279; (Chick and Roscoe), 1926, 20, 632, 639, 645

Supersaturation in Thames estuary water (Butler and Coste), 1923, 17, 49

Surface tension and smell (Watson), 1922, 16, 615, 616
effect of, on growth of bacteria (Wolf), 1923, 17, 813
of gelatin solutions (Mardles), 1924, 18, 227;
(St Johnstone and Peard), 1925, 19, 281, 285;
1926, 20, 816
of soap solutions (Ponder), 1924, 18, 850

Surfaces, significance of, for biological oxidations (Handovsky), 1926, 20, 1114

Surgical shock, effect of, on inorganic phosphate and total phosphorus of blood (Martland and Robison), 1924, 16, 768

Swede, growth-promoting properties of (Hume), 1921, 15, 45

Swede-juice, antiscorbutic fraction of, action of lead acetate on (Zilva), 1925, 19, 591
differential dialysis of antiscorbutic factor in (Cornell and Zilva), 1924, 18, 61
effect of heat on antiscorbutic factor of (Delf), 1920, 14, 216
raw, antiscorbutic value of, in infant feeding (Chick, Hume and Skelton), 1918, 12, 151

Swelling test, application of, to determination of damaged fibres in cotton (Fleming and Thaysen), 1921, 15, 408

Sycamore seeds, vitamin A in (Coward and Drummond), 1921, 15, 531, 538
Syringa vulgaris, inverteas in leaf of (Blagoveschenski and Sossiev), 1925, 19, 353
leaf peptase of (Blagoveschenski and Bielerskii), 1925, 19, 356

Syringe, micrometer, use of, as automatic pipette and micro-burette (Trevan), 1925, 19, 1111, 1113

Tannase, hydrolysing power of, determination of (Rhind and Smith), 1922, 16, 2
from Aspergillus Luchuensis (Rhind and Smith), 1922, 16, 11 (Nierenstein), 1923, 16, 514

Tannin of mangold, peroxide-forming property of (Gallagher), 1923, 17, 519
qualitative test for (Atkinson and Hazleton), 1922, 16, 516

Tartaric acid esters, hydrolysis of, by pancreatic and hepatic lipases (Dawson, Platt and Cohen), 1926, 20, 535

Tartronic semi-aldehyde, p-nitrophenylosazone of (Dakin), 1919, 13, 418

Taurine from Mytilus edulis (Daniel and Doran), 1926, 20, 678

Teeth, phosphoric esterase in (Robison and Soames), 1924, 18, 741

Teleostei, carnosine in (Clifford), 1921, 15, 730

Telluric acid, dissociation constants of (Korenchevsky), 1925, 19, 515

Tellurium derivatives, bactericidal action of (Morgan, Cooper and Burtt), 1924, 18, 16

Temperature, optimum, of the action of a ferment or lysozime (Brownlee), 1924, 18, 16

Tenebrio molitor, see Mealworm

Teredo norvegica, attraction of, to wood (Harington), 1921, 15, 736
effect of various substances on (Harington), 1921, 15, 737
enzymes of (Harington), 1921, 15, 739
physiology of (Harington), 1921, 15, 736

Terpenes, possible function of, as plant “oxygenases” (Gallagher), 1923, 17, 522

Testes, bull, isolation of insulin-like substances from (Korenchevsky and Carr), 1925, 19, 774
bull, spermine phosphate in (Rosenheim), 1924, 18, 1259
effect of injections of emulsions of, on nitrogen metabolism of normal, castrated and thyroidectomised rabbits (Korenchevsky and Carr), 1925, 19, 773
extracts of, effect of, on blood-sugar (Korenchevsky and Carr), 1925, 19, 774

Tetany, alveolar carbon dioxide tension in (Cruickshank), 1924, 18, 61
calcium and calcium ion concentration (Marrack and Thacker), 1926, 20, 592
distribution of blood-calcium in plasma and cells in (Cruickshank), 1923, 17, 14
experimental (Cruickshank), 1923, 17, 13;
1924, 18, 47
hydrogen ion concentration of blood in (Cruickshank), 1923, 17, 27;
1924, 18, 60
idiopathic, guanidine content of faeces in (Sharpe), 1920, 14, 46

Tethelin (Drummond and Cannan), 1922, 16, 53;
(Robertson), 1923, 17, 77
isolation and analysis of (Drummond and Cannan), 1922, 16, 55

Tetragonia expansa, pH of leaf-sap of (Chibnall and Grover), 1926, 20, 112

Tetramethyl-α-diaminodiphenyl carbonate (Stedman), 1926, 20, 726
preparation of (Stedman), 1926, 20, 724

Tetramethylgalactose from methylated cerebroside (Pryde and Humphreys), 1926, 20, 827

Tetramethylthrimethylenediamine in nature (Dudley, Rosenheim and Starling), 1926, 20, 1083
properties of (Dudley, Rosenheim and Starling), 1926, 20, 1088

Textile fabrics, action of sea-water on (Dorée), 1920, 14, 709
Textile fibres, bacterial decay of (Thayesen and Bunker), 1924, 18, 140; 1925, 19, 1088; 1926, 20, 692; (Thayesen, Bakes and Bunker), 1926, 20, 210

Thames estuary, seasonal variation in oxygen content of water of (Butler and Coste), 1923, 17, 50

Thermoregulator, simple electric (Bradford), 1924, 18, 381

Thermostat, improved electric (Bradford), 1922, 16, 49

Thiodous linkage in proteins (Mastin and Schryver), 1926, 20, 1177

Thioglycollic acid, action of, on growth of B. sporogenes (Quastel and Stephenson), 1926, 20, 1126

Thiol compounds, effect of, on oxidation of lipoids (Hopkins), 1923, 19, 816

Thionine, reduction of, in xanthine oxidase-hypoxanthine system (Dixon), 1926, 20, 709

Thiophen test for aldehydes, and its application to moist ether (Pearson), 1918, 12, 181 for lactic acid (Pearson), 1918, 12, 179

Thrombin (Pickering and Hewitt), 1922, 16, 587

action of, on fibrinogen (Barratt), 1920, 14, 189; 1921, 15, 5

Thymol, carbolic acid coefficient of (Morgan and Cooper), 1921, 15, 591

Thymoquinone, action of, on gelatin (Morgan and Cooper), 1921, 15, 588

carbolic acid coefficient of (Morgan and Cooper), 1921, 15, 591

Thyroid glands, effect of diet deficient in fat on (MacKay), 1921, 15, 23, 35

ingestion of, effect of, on uric acid and creatinine excretion in man (Zwarenstein), 1926, 20, 746

Thyroid gland, determination and content of iodine in (Pickworth), 1925, 19, 768, 772

effect of, on nitrogen metabolism (Korenchevsky and Carr), 1925, 19, 780

Thyroxine, isolation of, from thyroid gland (Harington), 1926, 20, 293

removal of iodine from (Harington), 1926, 20, 308

Timothy grass bacillus, oxygen uptake of (Callow), 1924, 18, 511

Tissue, adipose, lipochrome of, in malignant disease (Currie), 1924, 18, 235

cancer and normal, oxidation processes of (Fleisch), 1924, 18, 294

fresh, sampling of (Wigglesworth), 1924, 18, 1219

normal, and tumour, growth of (Drummond), 1917, 11, 325

tumour, oxidative mechanisms of (Holmes), 1926, 20, 812

Tissue extracts, reduction of methylene blue by (Wishart), 1923, 17, 103

specificity of enzymes of, as dehydrogenases (Wishart), 1923, 17, 104

Tissue oxidations, relation of vitamin B to (Drummond and Marrian), 1926, 20, 1299

Tissues and oxidised glutathione, relation between (Tunnicliffe), 1925, 19, 199

animal, ammonia production by, in vitro (Luck), 1924, 18, 814

Tissues, animal, distribution of spermine in (Dudley and Rosenheim), 1925, 19, 1035

chlorine in, micro-determination of (Reberg), 1926, 20, 483

iron in, determination of (Fowweather), 1926, 20, 93, 96

oxidation of phenols by (Handovsky), 1926, 20, 1114

plant, apparatus for wet grinding of, out of contact with air (Roach), 1925, 19, 783

Tobacco, dried, fermentation of (Fodor and Reifenberg), 1925, 19, 827, 830

Tobacco leaves, juice of, peptolytic and nicotine-splitting ferment in (Fodor and Reifenberg), 1925, 19, 832

nitrogenous bases of, separation of nicotine from (Fodor and Reifenberg), 1925, 19, 827

Toluine, effect of, on nitrogen and sulphur excretion of dogs (Callow and Hele), 1926, 20, 601, 603

effect of, on succinic acid formation (Moyle), 1924, 18, 358

p-Toluquinone, action of, on gelatin (Morgan and Cooper), 1921, 15, 588

carbolic acid coefficient of (Morgan and Cooper), 1921, 15, 591

Tomato, antiscorbutic and antineuritic properties of (Shorten and Ray), 1921, 15, 279, 253

fresh and canned, antiscorbutic value of (Delf), 1924, 18, 674

oxidising enzymes of (Onslow), 1921, 15, 116

Tonus, muscular, relation of creatine excretion to (Weinberg), 1921, 15, 308

Torulin activity, of yeast concentrates, measurement of (Riimersley and Peters), 1925, 19, 820

Toxin production, relation of, to surface tension of the medium (Wolf), 1923, 17, 825

Toxins, destruction of, effect of temperature and pH on (Brownlee), 1925, 19, 381

Toxoid, diphtheria, preparation of (Watson and Langstaff), 1926, 20, 765, 767

Toxoids, conversion of toxins into (Watson and Langstaff), 1926, 20, 763

Tradescentia, vitamin A in (Coward and Drummond), 1921, 15, 534, 538

Triacetin, hydrolysis of, by phosphoric esterase and pancreatic extract (Robison and Soames), 1924, 18, 745

Triacantone in Artemisia species (Goodson), 1922, 16, 489, 490, 492

Tri-i-so-amylamine phosphotungstate (Drummond), 1918, 12, 15

Tri-i-so-butylamine phosphotungstate (Drummond), 1918, 12, 15

Trichloroacetic acid, in determinations of blood-phosphorus, errors due to (Martland and Robison), 1924, 18, 766

Trimethylamine, basicity of alcoholic solutions of (Foreman), 1920, 14, 461

"fuming" action of, on oak (Tinkler), 1921, 15, 452

Trimethylamine phosphotungstate (Drummond), 1918, 12, 14

Trimethylpetic acid in orange-juice (Norris), 1926, 20, 996
INDEX OF SUBJECTS

γ-Trinitrotoluene, determination of the constitution of carnosine by means of (Barger and Tutin), 1918, 12, 402, 404

Tripropylamine phosphotungstate (Drummond), 1918, 12, 15

Triticum vulgare, isolectric points of proteins from (Pearsall and Ewing), 1924, 18, 334

Tropaeolum majus, pDy of leaf-sap of (Chibnall and Grover), 1926, 20, 112

Trophic acid, fate of, in body (Kay and Raper), 1922, 16, 465

Tryptic activation (Trypsin, action of, on caseinogen (Rimington and Kay), 1928, 20, 779, 781

active of, on insulin (Dudley), 1923, 17, 381, 386

action of, on lipase (Platt and Dawson), 1925, 19, 570

action of, on phosphopeptone (Rimington and Kay), 1929, 20, 722

azine and azoxon compounds of (Marston), 1923, 17, 382

caseinogen residue resistant to (Luck), 1924, 18, 679

comparison of milk-coagulating and casein-digesting power of (Seth), 1924, 18, 1403

digestion of fibrin and caseinogen by (Edie), 1921, 15, 498

digestion of fibrin and caseinogen by, effect of alcohol on (Edie), 1918, 13, 219

distribu of, inside and outside gelatin particles (Briggs), 1926, 20, 577

effect of heat on, in aqueous and alcoholic acid pancreatic extracts (Edie), 1921, 15, 499

effect of, on oxytocic principle of pituitary (Thorpe), 1926, 20, 377

free from lipase, preparation of (Thorpe), 1926, 20, 375

immunisation of animals against, attempted (Young), 1918, 12, 508–15

non-protein nature of, evidence of (Young), 1918, 12, 513–15

pancreatic, dried active preparation of (Foster and Woodrow), 1924, 15, 563

protective action of protein on, in pancreatic extracts (Edie), 1921, 15, 500

relation of, to its substrate (Briggs), 1926, 20, 574

Tryptinogel, activation of, autocatalysis in (Seth), 1924, 18, 1410

Tryptic digestion of protein in vitro, effect of fat on (Maughan), 1926, 20, 1046

Tryptophan, absorption of bromine by (Plimmer and Phillips), 1924, 18, 315

aldehyde condensation derivatives of (Fea-ron), 1920, 14, 548

and allied compounds, absorption spectra of (Ward), 1923, 17, 893

behaviour of, during acid and alkaline hydrolysis of proteins (Onslow), 1921, 15, 383, 389

colour changes produced in, by bacteria isolated from Stilton cheese (Cornish and Williams), 1917, 11, 183

Tryptophan, decomposition of, aerobic, by bacteria (Raiestrick and Clark), 1921, 15, 76

determination and isolation of, from hydrolysed caseinogen (Onslow), 1921, 15, 392

determination of, colorimetric, in proteins (Lüscher), 1922, 16, 556

determination of, in caseinogen (Onslow), 1924, 18, 63

effect of reaction on colour changes in solutions of (Mattick and Williams), 1921, 15, 213

effect on monkey of diet deficient in (Chick and Hume), 1920, 14, 135

extraction of, from tryptic digest of caseinogen by means of butyl alcohol (Dakin), 1918, 12, 302

mechanism of Hopkins-Cole test for (Fearon), 1920, 14, 548

not essential for growth of Streptococcus (Whitehead), 1924, 18, 832

photo-oxidation of (Harris), 1926, 20, 290

precipitation of, by mercuric sulphate (Ons-low), 1921, 15, 394

Tschugajeff reaction for sterols (Whitby), 1923, 17, 11

Tuberin, isolectric point of (Pearsall and Ewing), 1924, 18, 338

Tumour and normal tissue, growth of, a comparative study of (Drummond), 1917, 11, 325

effect of fat-soluble and water-soluble vitamins on growth of (Drummond), 1917, 11, 365

transplanted, effect of calcium chloride and sodium chloride on growth of, in mice (Cramer), 1918, 12, 210

See also Cancer

Tumour cells treated with calcium and sodium ions, water content of (Cramer), 1918, 12, 214, 217

Tumour tissue, cytochrome in (Holmes), 1926, 20, 814

oxidative mechanisms of (Holmes), 1926, 20, 812

Tumours, nitrogenous extractives of (Drummond), 1917, 11, 246

Turbidity of solids and gels of gelatin (Jordan Lloyd), 1922, 16, 533

Turpin, cytopentans and cytopectic acid in (Clayson, Norris and Schryver), 1921, 15, 645

oxidising enzymes of (Robinson), 1924, 18, 544

pectin from (Tutin), 1921, 15, 497

sun-dried, antiscorbutic properties of (Shorten and Ray), 1921, 15, 282

Turpin residues, methyl alcohol in (Clayson, Norris and Schryver), 1921, 15, 647

Turpin seeds, vitamin A in (Coward and Drummond), 1921, 15, 531, 538

Turpin shoots, green, and etiolated, vitamin A in (Coward and Drummond), 1921, 15, 532, 538

Tyrosinase (Onslow), 1923, 17, 216

action of, on amino-acids (Raper and Wormald), 1925, 19, 94

action of, on amino-acids, supposed deaminising (Happold and Raper), 1925, 19, 92
Tyrosinase, action of, on p-hydroxyphenylpyruvic acid (Raper and Wormall), 1925, 19, 89
action of, on phenols, tyrosine and other amino-acids (McCance), 1925, 19, 1022
extraction of, from Tenebrio molitor (Raper), 1926, 20, 757
from different sources, identity of (Raper and Speakman), 1926, 20, 69
nature of (McCance), 1925, 19, 1029
oxidation of dihydroxyphenylalanine by (Raper), 1926, 20, 735, 740, 742
oxidation of p-hydroxy-compounds by plant enzymes and its connection with (Onslow and Robinson), 1925, 19, 420
purification of (Raper and Wormall), 1923, 17, 457
relationship of, to laccase (Robinson), 1924, 18, 546
Tyrosinase-amino-acid systems, absorption of oxygen by (Raper and Wormall), 1925, 19, 97
action of phenols on (Raper and Wormall), 1925, 19, 98
Tyrosinase reaction, colourless and red intermediate substances of, nature of (Raper), 1926, 20, 735, 740
Tyrosinase-tyrosine reaction (Raper and Wormall), 1923, 17, 454; 1925, 19, 84; (Happold and Raper), 1925, 19, 92; (Raper and Speakman), 1926, 20, 69; (Raper), 1926, 20, 735
kinetics of (Raper and Wormall), 1923, 17, 461
Tyrosine, absorption spectrum of (Ward), 1923, 17, 899
action of tyrosinase on (McCance), 1925, 19, 1022
and diazo-reaction (Hunter), 1922, 16, 642
as parent substance of adrenaline (Raper), 1926, 20, 737
decomposition of, aerobic, by bacteria (Rastick and Clark), 1921, 15, 76
determination of (Mastin and Rees), 1926, 20, 781
determination of, by bromination (Plimmer and Phillips), 1924, 18, 312
determination of, colorimetric, in protein hydrolases (Plimmer and Shimamura), 1924, 18, 326
effect of reaction on colour changes of (Venn), 1920, 14, 99
formation of dihydroxyphenylalanine from, by action of tyrosinase (Raper), 1926, 20, 735, 738
photo-oxidation of (Harris), 1926, 20, 290
products of oxidation of, by tyrosinase (Raper and Wormall), 1923, 17, 460
reduction of, attempted (Weinhalgen), 1917, 11, 276
stability of peptide linkage of, during hydrolysis of protein (Onslow), 1921, 15, 396
supposed liberation from albumin on heat-coagulation (Mastin and Rees), 1926, 20, 759
Tyrosine phosphotungstate (Drummond), 1918, 12, 13
Tyrosol, oxidation of, by potato enzymes (Onslow and Robinson), 1925, 19, 421

Ulna campestris, distribution of cellulose-a and lignin in (Mehta), 1925, 19, 975

Ultra-violet radiation, effect of, on blood and plasma (Harris), 1926, 20, 275, 278
effect of, on calcium and phosphorus metabolism of lactating animal (Henderson and Magee), 1926, 20, 303
effect of, on cholesterol derivatives (Rosenheim and Webster), 1926, 20, 542
effect of, on mineral metabolism of lactating animal (Orr, Magee and Henderson), 1925, 19, 509
effect of, on rats on normal diet (Goldblatt and Soames), 1923, 17, 294
effect of, on the antiscorbutic, antineuritic and fat-soluble vitamins (Zilva), 1919, 13, 164, 166, 169

Ultra-violet irradiation of environment, effect of, on rats on a diet deficient in fat-soluble vitamins (Hume and Smith), 1924, 18, 1334; 1926, 20, 335

See also Urine, Vitamin A and Whale oil

Ulex, vitamin A in (Coward and Drummond), 1921, 15, 335, 535

Unguaria Severszoi, invertases in leaf of (Blagoveschenski and Sossiedov), 1925, 19, 351
leaf peptase of (Blagoveschenski and Biedowski), 1925, 19, 356

Ungulata, carnosine in (Clifford), 1921, 15, 733

Unsaponifiable matter of cod-liver oil, chemical examination of (Drummond, Channon and Coward), 1925, 19, 1049, 1051, 1056
of cod-liver oil, cholesterol-free residue, fractionation of (Drummond, Channon and Coward), 1925, 19, 1052
of cod-liver oil, preparation of, for study of vitamin A (Drummond, Channon and Coward), 1925, 19, 1048
of cod-liver oil, squalene in (Drummond, Channon and Coward), 1925, 19, 1055
of faeces, effect of diet on (Gardner), 1921, 15, 256
of human faeces, composition of (Gardner), 1921, 15, 244-66
of human fat and muscle (Gardner), 1921, 15, 267
of human milk (Fox and Gardner), 1924, 18, 134
of oils, biological significance of (Channon), 1926, 20, 400; (Channon and Marrian), 1926, 20, 409
of pea shoots, etiolated and green, vitamin A in (Coward and Drummond), 1921, 15, 537
of peas, dried, vitamin A in (Coward and Drummond), 1921, 15, 536, 538
of pig's liver (Channon and Marrian), 1926, 20, 412
of rabbit's faeces (Gardner), 1921, 15, 244
of shark (Somniosus) oil, chemical nature of (Weidemann), 1926, 20, 685
of sunflower shoots, etiolated and green, vitamin A in (Coward and Drummond), 1921, 15, 538

Uracil, occurrence of, in soils (Mockeridge), 1920, 14, 432

Uraemic sera, diazo-reaction in (Hewitt), 1925, 19, 171

p-Urazine, action of hypobromite on (Hurtley), 1921, 15, 16
Urea, action of nitrous acid on (Hynd and Macfarlane), 1926, 20, 1264
action of, on glucose, fructose and mannose (Hynd), 1926, 20, 195
blood-, after ingestion of amino-acids (Luck and Seth), 1925, 19, 366
blood-, effect of X-ray on, of normal and immune rats (Dodd, Lawson and Mottom), 1925, 19, 750
carbon monoxide produced from, by action of alkaline hypohalogenites (Hurtley), 1921, 15, 11
concentration ratio of (Rehberg), 1926, 20, 467, 469
conversion of, into ammonia, in gastric mucosa (Luck and Seth), 1925, 19, 361
cyanic acid as intermediary product in zymolysis of (Fearon), 1923, 17, 89
determination of (Todd), 1920, 14, 252
determination of, by urease (Wishart), 1923, 17, 403
determination of, in blood and urine (Murray), 1925, 19, 294
determination of, in blood, by micro-titration (Rehberg), 1925, 19, 278
determination of, in small quantities of blood (Hindmarsh and Priestley), 1924, 18, 252;
Patterson, 1925, 19, 601
determination of, in urine (Levy-Simpson and Carroll), 1923, 17, 391
effect of oxygen on production of, by enzymes of the liver and spleen (McCance), 1925, 19, 134
excretion of, analysed according to a modified filtration-reabsorption theory (Rehberg), 1926, 20, 481
formation of, during oxidative deamination of glycine and alanine in vitro (Pearson and Montgomery), 1924, 18, 579
in autolysis, enzyme system responsible for production of (McCance), 1924, 18, 494
in autolysis, production of (McCance), 1924, 18, 486
in autolysis, relation of ammonia to (McCance), 1924, 18, 490
in blood, gastric venous (Luck and Seth), 1925, 19, 363
in plasma after its ingestion (Rehberg), 1926, 20, 466, 468
percentage of, reabsorbed in kidney (Rehberg), 1926, 20, 469
production of, in vitro, by animal tissues (Luck), 1924, 18, 816
relationship of, to cyanic acid (Pearson and Montgomery), 1924, 18, 581
synthesis of, by urease (Kay), 1923, 17, 277
zymolysis of (Pearson), 1923, 17, 84, 800
Urea phosphotungstate (Drummond), 1918, 12, 19
Urease (Pearson), 1923, 17, 800
action of, in absolute alcohol (Pearson), 1923, 17, 805
determination of urea by (Wishart), 1923, 17, 403
gastric (Luck and Seth), 1924, 18, 1227; 1925, 19, 357
in the animal body, demonstration of (Luck), 1924, 18, 825
reversibility of action of (Kay), 1923, 17, 277
Ureides, action of nitrous acid on (Hynd and Macfarlane), 1926, 20, 1270
Urethanes, synthetic, position isomerism in relation to mitotic activity of (Stedman), 1926, 20, 719
Uric acid, determination of, by Benedict's method (Cohen), 1924, 18, 1327
determination of, by Hopkins-Folin method (Garry), 1924, 18, 913
effect of, on determination of calcium in serum (Coates and Raiment), 1924, 18, 923
reducing power of (Cooper and Walker), 1921, 15, 416
Uric acid excretion, effect of diet on (Wilson), 1925, 19, 334
of diabetic dogs, effect of feeding nucleic acids on (Langfeldt and Holmsen), 1925, 18, 724
of hybrids of Dalmatian hound (Onslow), 1923, 17, 334
of offspring of Dalmatian hybrids (Onslow), 1923, 17, 504
Uric acid Ingestion, effect of, on urinary allantoin and creatinine in dog (Zwarenstein), 1926, 20, 747
effect of, on urinary creatinine in man (Zwarenstein), 1926, 20, 744
Uric acid metabolism (Zwarenstein), 1926, 20, 743
Uric acid phosphotungstate (Drummond), 1918, 12, 18
Uricolytic index in diabetic dogs (Langfeldt and Holmsen), 1925, 19, 724
Urinary antiseptics, possible use of tellurium β-diketones as (Morgan, Cooper and Burtt), 1924, 18, 199
Urinary excretion, effect of administration of oxygen on (Campbell and Webster), 1921, 15, 664
of diastase (Cohen), 1926, 20, 253
Urinary tides (Campbell and Webster), 1922, 16, 507
Urine, acetooacetic acid and β-hydroxybutyric acid in, determination of (Goldblatt), 1925, 19, 626
acetone bodies in, during starvation, effect of ingestion of sugars on (Goldblatt), 1925, 19, 951
alkaline tide in (Campbell and Webster), 1921, 15, 663
ammonia and urea in, determination of (Levy-Simpson and Carroll), 1923, 17, 391;
(Murray), 1925, 19, 294
ammonia in, determination of (Orr), 1924, 18, 806
antifebrile and antiseptic vitamins in (van der Walle), 1922, 16, 713
blue fluorescent substance of, in ultra-violet light (Kinnersley, Peters and Squires), 1925, 19, 407
calcium content of, during abnormal pregnancy (Widows), 1924, 18, 557
cat's, iminazole in (Hunter), 1925, 19, 36
cholesterol and cholesterol esters in, determination of (Gardner and Gainsborough), 1925, 19, 668
cholesterol secretion in (Gardner and Gainsborough), 1925, 19, 667
creatinine content of, effect of purgation on (Burns), 1920, 14, 94
Urine, day and night, under varying conditions of rest and work, composition of (Campbell and Webster), 1921, 15, 660
Urine, diabetic analyses of (Kennaway), 1918, 12, 123, 125
Urine, diabetic, nature of, sugar in (Lawn and Wolf), 1925, 19, 194
dog's, effect of administration of sodium benzoate and hydrazine sulphate on (Lackner, Levinson and Morse), 1918, 12, 185
dog's, ethereal sulphate of, after administration of substituted aromatic substances (Coombs and Hele), 1926, 20, 609, 611
dog's, sulphur effect of (Hunter), 1925, 19, 25
dog's, phenol ratio of, after administration of substituted benzenes (Callow and Hele), 1926, 20, 601, 604
dog's, sulphur of, after administration of halogen-substituted benzenes (Callow and Hele), 1926, 20, 603
effect of diet on alcohol content of (Southgate), 1925, 19, 743
effect of lactose feeding on amounts of inorganic and ethereal sulphates in (Distaso and Sugden), 1919, 13, 156
effect of severe muscular work on composition of (Campbell and Webster), 1922, 16, 106
elimination of mercury, bismuth and lead in (Lombolt), 1924, 18, 693
experimental alterations of calcium content of (Stewart and Haldane), 1924, 18, 855
flow of, effect of injection of testis extract and different emulsions on (Korenechevsky and Carr), 1925, 19, 778
glucose in, optical activity and reducing power of (Hewitt and de Souza), 1921, 15, 669, 670
goat's, collection of (Peters), 1920, 14, 697
guanidines in, determination of, as picrates (Sharpe), 1925, 19, 168; (Greenwald), 1926, 20, 665
halogen in, determination of (Callow and Hele), 1926, 20, 599
histidine in (Hunter), 1925, 19, 28
immazoxide excretion in (Hunter), 1925, 19, 29, 34
immazoxylglycine in (Stewart), 1923, 17, 130
inorganic phosphorus in, determination of (Stewart and Archibald), 1925, 19, 489
inorganic phosphorus in, reduction in, after administration of insulin, or ingestion of sugar (Sokhey and Allen), 1924, 18, 1181
iron in, determination of (Fowweather), 1926, 20, 93
nitrogen and chloride content of, effect of deproteinisation on (Mukai), 1921, 15, 518
nitrogen distribution in, effect of fat and carbohydrate on (Cathcart), 1922, 16, 747
nitrogen partition in, of races in Singapore (Campbell), 1919, 13, 239
nitrogenous constituents of, on low nitrogen diets (Robison), 1922, 16, 131
normal, carbohydrate of (Patterson), 1926, 20, 651
normal, glucose content of (Lund and Wolf), 1925, 19, 538
normal, hydrolysable sugar of (Patterson), 1926, 20, 663
Urine, normal, type of sugar excreted in (Talman), 1924, 18, 583
phosphate tide in (Campbell and Webster), 1921, 15, 662
phosphorus in, under action of insulin (Kołodziejska and Funk), 1926, 20, 393
pig's, on normal and abnormal diets, calcium and phosphorus in, after irradiation (Henderson), 1925, 19, 54, 57
potassium content of growing pig's, effect of increased sodium intake on (Richards, Godden and Husband), 1924, 18, 654
total sulphur in, determination of (Robison), 1922, 16, 134
typhoid, diazo-reaction in (Hunter), 1925, 19, 30, 31
Urobilinuria in rabbits fed exclusively on cow's and goat's milk (Brouwer), 1926, 20, 105
Urochrome, as derivative of chlorophyll (Roaf), 1921, 15, 687
glycuronic acid as a probable constituent of (Pollecoff), 1924, 18, 1232
Urochrome-like pigments in vegetables (Roaf), 1921, 15, 688
Valine, action of hypochlorite on (Wright), 1926, 20, 590
basic dissociation constant of (Harris), 1923, 17, 693
removal of, from hydrolysate products of caseinogen (Foreman), 1919, 13, 385
Vapours pressures of solutions (Haldane), 1918, 12, 484-90, 492-8
Veal, carnosine content of (Cliford), 1922, 16, 341
Vegetable-juice, effect of heat on vitamin C of (Delf), 1920, 14, 211
effect of storage on antiscorbutic value of (Delf), 1925, 19, 141
Vegetable-saps, electrolytes of (Haynes), 1919, 13, 111
Vegetables, dried and cooked, antiscorbutic value of (Delf and Skelton), 1918, 12, 429, 430, 444-50, 463
green, methods of cooking (Masters and Garbutt), 1920, 14, 75
sun-dried, antiscorbutic and antiberiberi properties of (Shorten and Ray), 1921, 15, 274
urochrome-like pigments in (Roaf), 1921, 15, 688
Venom of Echis carinatus, action of, upon fibrinogen (Barratt), 1920, 14, 189
Viscum faba, isoelectric points of proteins from (Pearsall and Ewing), 1924, 18, 331
Pn of leaf-sap of (Chibnall and Grover), 1926, 20, 112
Viscin, isoelectric point of (Pearsall and Ewing), 1924, 18, 338
Vine, constituents of sap of (Wormall), 1924, 18, 1187
Viscometers for blood-viscosity determinations (Trevan), 1918, 12, 60
Viscosity of blood (Trevan), 1918, 12, 60
of gelatin, effect of hydrolysis on (Shoji), 1919, 13, 236
Vitamin A, in cod-liver oil, stability of, to hardening process (Zilva), 1924, 18, 881
in colostrum (Luce), 1924, 18, 732
in cress (Coward and Drummond), 1921, 15, 531
in eggs, effect of chemical preservation on stability of (Tso), 1926, 20, 17
in fish and fish-liver oils, origin of (Drummond and Zilva), 1922, 16, 518
in grape-fruit rind (Williott and Wokes), 1926, 20, 1301
in maize (Coward and Drummond), 1921, 15, 531, 538
in marine algae and plankton (Drummond and Zilva), 1922, 16, 518–22
in milk, effect of diet and sunlight on (Luce), 1924, 18, 710; (Chick and Roscoe), 1926, 20, 652, 639
in milk, loss of, in condensation (Hume), 1921, 15, 165
in mushrooms (Coward and Drummond), 1921, 15, 535, 538
in nutrition of the trout (Coward and Drummond), 1922, 16, 631
in nuts (Coward and Drummond), 1920, 14, 665
in peas (Coward and Drummond), 1921, 15, 531, 538
in plant shoots, etiolated (Coward and Drummond), 1921, 15, 532, 534, 538
in plant tissues, formation of (Coward), 1923, 17, 134
in plant tissues, formation of, necessity of light for (Coward), 1923, 17, 135
in plant tissues, persistence of (Coward), 1925, 19, 500
in protein extracts from vegetables (Coward and Drummond), 1921, 15, 536, 538
in Sarcina aurantiaca and Streptodriz corallina (Reader), 1925, 19, 1044
in seaweeds, green (Coward and Drummond), 1921, 15, 535, 538
in seaweeds, red (Coward and Drummond), 1921, 15, 535, 538
in seeds, dried, germinated and green (Coward and Drummond), 1921, 15, 531–3, 538
in Tradescantia (Coward and Drummond), 1921, 15, 534, 538
in turnip shoots, green (Coward and Drummond), 1921, 15, 532, 538
in unsaponifiable matter of vegetables (Coward and Drummond), 1921, 15, 536–8
in wheat-bran (Stammers), 1921, 15, 489
in yeast (Drummond), 1917, 11, 255
in yeast-fat (Luce and Smedley MacLean), 1925, 19, 47
isolation of, attempted (Drummond), 1919, 13, 89
methods of testing for (Drummond), 1919, 13, 82, 90; (Drummond and Coward), 1920, 14, 661; (Drummond, Coward and Handly), 1925, 19, 1068; (Chick and Roscoe), 1926, 20, 633
removal of, from caseinogen (Coward and Drummond), 1921, 15, 530
requirements of, of guinea-pigs (Hume), 1921, 15, 45
requirements of, of rats and kittens (MacKay), 1921, 15, 26
Vitamin A, reserves of (Chick and Roscoe), 1926, 20, 635
storage of, in the body, relation to content of, in cow's milk (Luce), 1924, 18, 724
synthesis of, by a fresh-water alga, Chlorella (sp.), (Coward), 1925, 19, 240
synthesis of, by a marine diatom (Jameson, Drummond and Coward), 1922, 16, 482
synthesis of, by yeast-cell (Luce and Smedley MacLean), 1925, 19, 51
utilisation of, by living plants in the dark and in the light (Southgate), 1925, 19, 501
Vitamin A content of butter and milk, factors affecting (Drummond, Coward and Watson), 1921, 15, 540
of butter, effect of breed and diet of cow on (Drummond, Coward and Watson), 1921, 15, 541, 548
of cod-liver oil, refined (Stammers), 1922, 16, 659
of colostrum (Drummond, Coward and Watson), 1921, 15, 542
of etiolated shoots (Coward), 1925, 19, 501
of S. African oils (Delf), 1924, 18, 93
of withered leaves (Coward), 1925, 19, 502
Vitamin A deficiency, effect of, on guinea-pigs (Boock and Trevan), 1922, 16, 780
effect of, on pigeons (Hoet), 1923, 17, 225; 1924, 18, 412
Vitamin B (Chick, Hume and Skelton), 1918, 12, 134
adsorption of, by colloidal ferric hydroxide (Harden and Zilva), 1918, 12, 95, 105;
(Zajdel and Funk), 1926, 20, 26
adsorption of, by fuller's earth (Harden and Zilva), 1918, 12, 94, 105
destruction of, by age (Findlay), 1923, 17, 887
differential dialysis of (Zilva and Miura), 1921, 15, 422
effect of, on appetite in pigeons (Hoet), 1923, 17, 241, 548
effect of, on glyoxalase (Findlay), 1921, 15, 105
effect of, on nutrition and nitrogen metabolism of rat (Drummond), 1918, 12, 25, 33, 40
effect of, on tumour growth in rats (Drummond), 1917, 11, 365
effect of ozone on (Zilva), 1922, 16, 44
effect of ultra-violet radiation on (Zilva), 1919, 13, 166
examination of barley, malt and beer for (Southgate), 1924, 18, 770; (Harden and Zilva), 1924, 18, 1129
feeding experiments in connection with (Stammers), 1922, 16, 659; 1924, 18, 9
in actively growing animal tissues (Drummond), 1918, 12, 40
in alcohol extract of carrots (Zilva), 1920, 14, 498
in eggs, effect of chemical preservation on (Tso), 1926, 20, 17
in grape-fruit rind (Willimott and Wokes), 1926, 20, 1303
in lemon rind (Willimott), 1926, 20, 31
in milk (Osborne and Mendel), 1922, 16, 363
in orange-juice (Stammers), 1924, 18, 9
in urine (van der Walle), 1922, 16, 713
in wheat-bran (Stammers), 1921, 15, 489
in wool, loss of, during fermentation (South gate), 1924, 18, 1549
Vitamin B, in yeast (Drummond), 1917, 11, 255
necessity of, for continued life of frog (Harden and Zilva), 1920, 14, 261
of yeast, molecular magnitude of (Zilva and Miura), 1921, 15, 425
physiological role of (Drummond and M rian), 1926, 20, 1229; (Reader and Drum mond), 1926, 20, 1256
purification of, from autolysed yeast (Zilva), 1919, 13, 160
relation of, to antineuritic factor (Southgate), 1924, 18, 772
relation of, to protein, in diet of growing rat (Reader and Drummond), 1926, 20, 1256
relation of, to protein in diet of lactating rat (Hartwell), 1924, 18, 785; 1925, 19, 1075
relation of, to tissue oxidations (Drum mond and Marrian), 1926, 20, 1229
requirements of, of chickens and other birds (Plimmer and Rosendale), 1923, 17, 772, 794
requirements of, of lactating and non-lactating rat (Hartwell), 1925, 19, 1080
separation of, from vitamin C by fuller's earth (Harden and Zilva), 1918, 12, 94
synthesis of, by yeasts (Harden and Zilva), 1921, 15, 438
Vitamin B content of dried milk (Hartwell), 1925, 19, 228
of lemon rind (Willimott), 1926, 20, 31
of white bread (Hartwell), 1924, 18, 120
of yeast extracts and dried yeast (Plimmer and Rosendale), 1923, 17, 772
Vitamin B deficiency, effect of, on blood-sugar of rats (Eggleton and Gross), 1925, 19, 633
effect of, on growth of rats (Harden and Zilva), 1918, 12, 410
effect of, on liver glycogen content of rats (Eggleton and Gross), 1925, 19, 635
Vitamin B-deficient rats, carbohydrate metabolism of (Gross), 1923, 17, 575
Vitamin B-deficient diet of Drummond and Watson (Bacharach), 1925, 19, 638
Vitamin C, adsorbents in relation to (Harden and Zilva), 1918, 12, 93
Bezssonoff's colour reaction for, criticism of (Kay and Zilva), 1923, 17, 872; (Connell and Zilva), 1924, 18, 639
Bezssonoff's colour reaction, reagent for (Bezssonoff), 1923, 17, 420; 1924, 18, 384
chemistry of (Daubney and Zilva), 1926, 20, 519
concentration of, from lemon-juice (Zilva), 1924, 18, 632
differential dialysis of (Zilva and Miura), 1921, 15, 422; (Connell and Zilva), 1924, 18, 641
effect of, on formation of agglutinins in guinea-pigs (Zilva), 1919, 13, 190
effect of, on growth of rats (Drummond), 1919, 13, 78
effect of ozone and air on (Zilva), 1922, 16, 44
effect of temperature on (Delf), 1920, 14, 211; (Davey), 1921, 15, 96
effect of ultra-violet radiation on (Zilva), 1919, 13, 164
examination of barley, malt and beer for (Southgate), 1924, 18, 770; (Harden and Zilva), 1924, 18, 1129
INDEX OF SUBJECTS

Vitamin C, in alcohol extract of carrots (Zilva), 1920, 14, 499
in cabbage, commercially dried, effect of drying and storage on (Delf and Skelton), 1918, 12, 455-62
in dried orange-juice, effect of temperature on (Harden and Robison), 1921, 15, 521
in lemon-juice (Harden and Zilva), 1918, 12, 259
in lemon-juice, oxidation of, effect of reaction on (Zilva), 1923, 17, 410
in lemon rind (Willimott and Wokes), 1926, 20, 1013
in urine (van der Walle), 1922, 16, 713
in vegetable and fruit-juices, effect of heat on (Delf), 1920, 14, 211
inactivated by aeration, action of reducing agents on (Daubney and Zilva), 1926, 20, 519
of lemon-juice, molecular magnitude of (Zilva and Miura), 1921, 15, 425
presence of iodine in preparations of (Daubney and Zilva), 1926, 20, 1068
preservation of juices containing (Davey), 1921, 15, 93
role of, in nutrition (Drummond), 1919, 13, 77
separation of, from vitamin B by fuller’s earth (Harden and Zilva), 1918, 12, 94

Vitamin C content of tomatoes, raw fresh, bottled, canned and purée canned (Delf), 1924, 18, 674

Vitamin C deficiency, effect of, on growth of rats (Zilva), 1918, 12, 414

Vitamin C requirements of chickens and other birds (Plimmer and Rosendale), 1923, 17, 787

Vitamin content of cod-liver and malt extract (Stammers), 1924, 18, 9
of cod-liver oil, effect of high temperature on (Southgate), 1925, 19, 733
of Indian foodstuffs (Ghose), 1922, 16, 35
of milk (Hopkins), 1920, 14, 721

Vitamin D, colour tests for, non-specificity of the aniline and Beesonoff (Rosenheim and Webster), 1926, 20, 544
determination of, biological (Chick and Roscoe), 1926, 20, 634
effect of, on dental calcification (Mellanby and Killick), 1926, 20, 903
in colostrum (Luce), 1924, 18, 732
in eggs, effect of chemical preservation on (Tso), 1926, 20, 17
in milk, effect of diet and sunlight on (Luce), 1924, 18, 716; (Chick and Roscoe), 1926, 20, 632
reaction of faeces as test for (Jophcott and Bacharach), 1926, 20, 1531
reserves of (Chick and Roscoe), 1926, 20, 635
sources of, free from vitamin A (Drummond, Coward and Handy), 1925, 19, 1068
storage of in the body, and calcium balance in atrophic infante (Hickmans), 1924, 18, 931
(yeast growth-promoting substance) (Heaton), 1922, 16, 800
(yeast growth-promoting substance), adsorption of, by ferro hydroxide (Zajdel and Funk), 1926, 20, 27

Vitamin deficiency, effect of, on adrenaline equilibrium in the body (Gross), 1923, 17, 569

Vitamin requirements of chickens (Plimmer and Rosendale), 1922, 16, 11
of Drosophila (Bacot and Harden), 1922, 16, 148

Vitamins, deficiency of, and opsonins (Findlay and Mackenzie), 1922, 16, 574
deficiency of, effect of, on pigeons (Hoet), 1923, 17, 220
fat-soluble, calcium and phosphorus retention of rats fed on diets deficient in (Boas and Chick), 1924, 18, 443
fat-soluble, calcium content of bone with graded deficiency of (Goldblatt), 1923, 17, 310
fat-soluble, determination of biological, errors in (Chick), 1926, 20, 119
fat-soluble, differentiation of, from yellow plant pigments (Stephenson), 1920, 14, 715
fat-soluble, effect of heat and aeration on (Hopkins), 1920, 14, 725
fat-soluble, effect of heat and oxygen on, in butter (Drummond and Coward), 1920, 14, 734
fat-soluble, effect of, on inorganic phosphate of blood (Robison and Soames), 1925, 19, 156
fat-soluble, effect of, on tumour growth in rats (Drummond), 1917, 11, 365
fat-soluble, effect of, on young rats, when fed to parents during breeding (Goldblatt), 1923, 17, 316
fat-soluble, in parent’s diet, effect of, on growth of young (Korenchevsky and Carr), 1925, 19, 113
fat-soluble, in winter milk, effect of cow’s diet on (Golding, Soames and Zilva), 1926, 20, 1306
fat-soluble, relation of growth to content of, in diet (Goldblatt), 1923, 17, 303
fat-soluble, reserve of, in animals (Chick), 1926, 20, 127
fat-soluble, standard rats for work on (Smith and Chick), 1926, 20, 131
in nutrition of rat (Harden and Zilva), 1918, 12, 408
in vegetable foods (Mellanby and Killick), 1926, 20, 916
nomenclature of (Drummond), 1920, 14, 660
of Carica papaya (Miller), 1926, 20, 515

Vitis vinifera, anthocyanin in (Rosenheim), 1920, 14, 178
invertases in leaf of (Blagoveschenski and Sossiedov), 1925, 19, 351
leaves peptase of (Blagoveschenski and Bielorzaki), 1925, 19, 356
oxidising enzymes of (Onslow), 1921, 15, 116
Pn of leaf-sap of (Chibnall and Grover), 1920, 20, 112

Volumes of fluids, accuracy of measurement of small (Andrewes), 1919, 13, 37

Wassermann antigens, colloidal properties of (Kermack and MacCallum), 1924, 18, 1381
Wassermann reaction as a surface action (Holker), 1921, 15, 242
INDEX OF SUBJECTS

Water Ingestion, effect of, on protein metabolism (Wilson), 1926, 20, 80
Watermelon, oxidising enzymes of (Robinson), 1924, 18, 544
Water-soluble growth-promoting factor B and antineuritic substance, assumed identity of (Drummond), 1917, 11, 269
diagnosis of (Drummond), 1917, 11, 263
effect of acid and alkali on (Drummond), 1917, 11, 264
isolation of, attempted (Drummond), 1917, 11, 265
solubility of, in alcohol and ether (Drummond), 1917, 11, 261
Weight, relation of milk secretion to (Hartwell), 1921, 15, 145
Whale oil, iodine value of, effect of ultra-violet radiation on (Zilva), 1922, 16, 43
Whale oils, vitamin A deficiency of (Delf), 1924, 18, 95
Wheat, etiolated seedlings of, carotene and xanthophyll in (Coward), 1924, 18, 1121
Wheat, embryo, nucleic acid, preparation of (Clarke and Schryver), 1917, 11, 323
Wheat flour, hemicellulose of (Clayson and Schryver), 1923, 17, 493
Wheat grain, phytosterol content of components of (Ellis), 1918, 12, 165
Wheat plants, normal, and etiolated phytosterol content of (Ellis), 1918, 12, 160, 165
sitosterol in (Ellis), 1918, 12, 166, 169
Wheat proteins, biological value of (Martin and Robison), 1922, 16, 425, 443
isolectric points of (Pearse and Ewing), 1924, 18, 334
Whey, preparation of, for feeding experiments with rats (Hartwell), 1922, 16, 100
Wisteria chinensis, pH of leaf-sap of (Chibnall and Grover), 1926, 20, 112
Wood, beech, pectic substance in (O'Dwyer), 1925, 19, 694
colour reactions of, substances responsible for (Mehta), 1925, 19, 959
protective treatment of, with carbon disulphide and alkali (Thayyen and Bunker), 1924, 18, 137
spring and autumn, differences between (Mehta), 1925, 19, 995
Wort, effect of fermentation on vitamin B content of (Southgate), 1924, 18, 1248
Xanthine, occurrence of, in soils (Mookeridge), 1920, 14, 432
oxidation of, by milk oxidase (Dixon), 1926, 20, 704
Xanthine oxidase (Thurlow), 1925, 19, 175;
(Dixon), 1925, 19, 507; (Dixon and Thurlow), 1925, 19, 672; (Kodama), 1926, 20, 1095
distribution of (Morgan), 1926, 20, 1282
dynamics of (Dixon and Thurlow), 1924, 18, 976
identity of, with the Schardinger enzyme (Dixon and Thurlow), 1924, 18, 985;
(Morgan), 1926, 20, 1290
isolation of, from milk (Thurlow), 1925, 19, 177; (Dixon and Kodama), 1926, 20, 1105
Xanthine oxidase, preparation of (Dixon and Thurlow), 1924, 18, 971
purification of (Dixon and Kodama), 1926, 20, 1104, 1108
reduction of nitrates in presence of (Dixon and Thurlow), 1924, 18, 989
specificity of the system (Dixon), 1926, 20, 703
substrates for (Dixon), 1926, 20, 704
Xanthine oxidase-hypoxanthine system and hydrogen peroxide (Dixon), 1925, 19, 509;
1926, 20, 710; (Kodama), 1926, 20, 1096
Xanthine oxidase system and glutathione (Dixon), 1926, 20, 716
and reducing power of cell (Dixon), 1926, 20, 715
oxidation-reduction potentials of (Dixon), 1926, 20, 714; (Caldam), 1926, 20, 1096
Xanthine phosphotungstate (Drummond), 1918, 12, 18
Xanthophyll, absorption spectra of (Coward), 1924, 18, 1116
in etiolated wheat seedlings (Coward), 1924, 18, 1121
Xerophthalmia in rats (Bulley), 1919, 13, 103;
(Stephenson and Clark), 1920, 14, 502;
(Stammers), 1924, 18, 11
X-radiation, metabolic differences following, between normal rats and rats immune to Jensen's rat sarcoma (Dodd, Lawson and Mottram), 1925, 19, 750
"X substance" (growth-promoting factor for infusoria) (Robertson), 1921, 15, 604, 612
Xylenol blue (Cohen), 1922, 16, 31
Xylolquinone, action of, on gelatin (Morgan and Cooper), 1921, 15, 588
carbolic acid coefficient of (Morgan and Cooper), 1921, 15, 591
Xylose from beech-wood hemicellulose A (O'Dwyer), 1926, 20, 661
Yeast, "acetoned," method of preparing (Holden), 1924, 18, 536
"acetoned," respiration of, rôle of alcoholic co-enzyme in (Holden), 1924, 18, 535
action of, on alcohols, ketones and aldehydes (Smedley MacLean and Hoffert), 1926, 20, 346, 348, 350
action of, on hexosephosphates (Smedley MacLean and Hoffert), 1924, 18, 1277
action of, on lactic acid (Hoffert), 1926, 20, 358
action of, on sodium salts of organic acids (Smedley MacLean and Hoffert), 1926, 20, 346, 348, 350
alcoholic fermentation by, effect of fatty acids and their salts on (Katagiri), 1926, 20, 427
antidiabetic hormone from, preparation of (Hutchinson, Winter and Smith), 1923, 17, 683
antineuritic substance in, action of nitrous acid on the (Peters), 1924, 18, 858
antineuritic substance in, preparation of concentrate of (Peters), 1924, 18, 862
antithrombin from (Pickering and Hewitt), 1922, 16, 595
assimilation of nitrogen from amino-acids by (Lampitt), 1919, 13, 459
autolysed, removal of vitamin B from, by adsorption (Harden and Zilva), 1918, 12, 94, 105
Yeast, carbohydrate and fat metabolism of (Smedley MacLean and Hoffert), 1923, 17, 720; 1924, 18, 1273; 1926, 20, 343
carbohydrate content of (Smedley MacLean and Hoffert), 1926, 20, 345
carotene in (Reader), 1925, 19, 1045
determination of, gravimetric (Coombs and Stephenson), 1926, 20, 998
dried, and yeast extracts, vitamin B content of (Plimmer and Rosedale), 1925, 17, 772
dried, fermentation by (Harden), 1925, 19, 477
dried, fermentation of glyoxylic acid by, in presence of sugar (Lebedev), 1918, 12, 82, 85
dried, inactivated, specific action of potassium ions on fermentation by (Harden), 1917, 11, 68
dried or incubated, effect of, on growth of rats (Luce and Smedley MacLean), 1925, 19, 48
dried, protease of, acceleration of action of, by potassium dihydrogen phosphate (Ivanov), 1918, 12, 110
dried, peptase of, effect of temperature on (Ivanov), 1918, 12, 111, 117
dried, reduction of glyoxylic acid by (Lebedev), 1918, 13, 81
effect of phosphates on storage of fat and carbohydrate by (Smedley MacLean and Hoffert), 1924, 18, 1273
effect of zinc, addition of, to synthetic diets (Hoet), 1923, 17, 221
fat content of, conditions affecting the (Smedley MacLean), 1922, 16, 370, 375
fat metabolism of, effect of phosphates on (Smedley MacLean and Hoffert), 1924, 18, 1274
fermentation of, effect of various substances on (Masters and Maughan), 1920, 14, 586
formation of polysaccharides by (Naganishi), 1926, 20, 856, 858, 863
growth of, in presence and absence of "bios" (Peskett), 1925, 19, 469
glutathione from (Hopkins), 1921, 15, 289
isoelectric point of suspensions of (Pearsall and Ewing), 1924, 18, 337
nucleic acid, preparation of (Clarke and Schryver), 1917, 11, 321
oxygenation of, effect of, on metabolism (Smedley MacLean), 1922, 18, 377
proteolytic enzyme of, nature of (Ivanov), 1918, 12, 106
spermine in (Dudley and Rosenheim), 1925, 19, 1035
vitamin B in (Drummond), 1917, 11, 255
Yeast concentrates, antineuritic (Kimbleby and Peters), 1925, 19, 820
Yeast extract as a supplement to gelatin (Hartwell), 1926, 20, 1279
Yeast extract, effect of, on growth of rats (Drummond), 1918, 12, 39
effect of, on mammary secretion (Hartwell), 1921, 15, 154
effect of, on oxidation-promoting properties in washed muscle (Holden), 1923, 17, 361
(marmite), effect of, added to rats' diet containing excess protein (Hartwell), 1922, 16, 98
Yeast extracts, coloration given by, with Bezsonoff's reagent (Bezsonoff), 1924, 18, 385
Yeast-fat, nature of (Smedley MacLean and Thomas), 1920, 14, 483
vitamin A in (Luce and Smedley MacLean), 1925, 19, 47
Yeast growth (Slator), 1918, 12, 248; (Peskett), 1925, 19, 464
and allelocaletysis (Peskett), 1924, 18, 866; 1925, 19, 474
effect of carbon dioxide on (Slator), 1918, 12, 252
effect of oxygen on (Slator), 1918, 12, 254
effect of temperature on rate of (Slator), 1918, 12, 252
effect of volume of medium on (Peskett), 1925, 19, 464
lag and logarithmic phases in (Slator), 1918, 12, 248, 251
rate of (Slator), 1918, 12, 249, 253; (Coombs and Stephenson), 1926, 20, 1001
Yeast growth-stimulant, action of (Wright), 1922, 16, 137
Yeast-juice, fermentation of sugars by, effect of acetaldehyde and methylene blue on (Harden and Henley), 1921, 15, 175, 184
Yeasts, synthesis of vitamin B by (Harden and Zilva), 1921, 15, 438
Zanthoxylum macrorhylum, bark of, constituents of (Goodson), 1921, 15, 123
Zea mays, pH of leaf-sap of (Chibnall and Grover), 1926, 20, 112
Zeil, hydrolysis of, by baryta (Onslow), 1921, 15, 386
Zymasis, anaerobic, of apple, at different temperatures (Thomas), 1925, 19, 931
Zymin, effect of salts on the fermenting power of, in large volume of sugar solution (Harden), 1925, 19, 482
fermentation of sugars by, effect of acetaldehyde and methylene blue on (Harden and Henley), 1921, 15, 175, 183
fermenting power of, in small and large volumes of sugar solution (Harden), 1925, 19, 481
inactivated, conditions of activation of (Harden), 1917, 11, 64
Zymold, absence of, from trypsin solutions (Young), 1918, 12, 507