Pathways of pyruvate metabolism in the mammary gland. By C. Terner. (With two figures)  . 145
Hippuric acid synthesis in the rat. By H. R. V. Arnstein and A. Neuberger. (With three figures)  . 154
Isolation of antibiotics from a species of Cephalosporium. Cephalosporins P₁, P₂, P₃, P₄ and P₅. By H. S. Burton and E. P. Abraham. (With three figures)  . 168
Tissue fractionation studies. 1. The existence of a mitochondria-linked, enzymically inactive form of acid phosphatase in rat-liver tissue. By J. Berthet and C. de Duvé. (With three figures)  . 174
Tissue fractionation studies. 2. The nature of the linkage between acid phosphatase and mitochondria in rat-liver tissue. By J. Berthet, L. Berthet, F. Appelmans and C. de Duvé. (With ten figures)  . 182
The function of carbonic anhydrase in the stomach. By R. E. Davies and J. Edelman. (With five figures)  . 190
Isolation of unequivocal uroporphyrin III. A further study of turacin. By R. E. H. Nicholas and C. Rimington. (With eight figures)  . 194
A study of the porphyrins excreted in the urine by a case of congenital porphyria. By C. Rimington and P. A. Miles. (With two figures)  . 202
The branched-chain fatty acids of butterfat. 1. The isolation from butterfat of branched-chain fatty acids with special reference to the C₁₇ acids. By R. P. Hansen and F. B. Shorland  . 207
The virulence-enhancing factor of mucins. 4. The role of particulate insoluble matter and a viscous medium in virulence enhancement, with a revised assay of the third factor involved. By H. Smith, P. W. Harris-Smith and J. L. Stanley  . 211
Addendum—Statistical analysis of the biological assay of virulence-enhancing activity. By S. Peto  . 215
Amino-acid requirements of amylose synthesis by pigeon-pancreas slices. By L. E. Hokin  . 216
Studies in detoxication. 39. Nitro compounds. (a) The metabolism of o-, m- and p-nitrophenols in the rabbit. (b) The glucuronides of the mononitrophenols and observations on the anomalous optical rotations of triacetyl β-o-nitrophenylglucuronide and its methyl ester. By D. Robinson, J. N. Smith and R. T. Williams. (With one figure)  . 221
Studies in detoxication. 40. The metabolism of nitrobenzene in the rabbit. o-, m- and p-Nitrophenols, o-, m- and p-aminophenols and 4-nitrocatechol as metabolites of nitrobenzene. By D. Robinson, J. N. Smith and R. T. Williams. (With three figures)  . 228
Ethanolamine-O-phosphoric acid in rat brain. By G. B. Ansell and R. M. C. Dawson. (With one figure)  . 241
The preparation and some properties of purified micrococcin. By N. G. Heatley and H. M. Doery. (With five figures)  . 247
Metabolic effects of electrical stimulation of mammalian tissues in vitro. By C. C. Kratzing. (With one figure)  . 253
The L-amino-acid oxidase of Neurospora. By K. Burton. (With five figures)  . 258
Studies in carotenogenesis. 2. Carotene production by Phycymes blakesleanus: the effect of different amino-acids when used in media containing low concentrations of glucose. By T. W. Goodwin and W. Lijinsky. (With two figures)  . 268
A study of the cytochrome system and some other aspects of the respiration of Aerobacter aerogenes. By A. Tissières. (With four figures)  . 279
The formation of lactic acid in grass-water mixtures. By A. J. G. Barnett ... i

The synthesis of lysine by bacteria during incubation of rumen contents in vitro. By M. L. McNaught ... i

The effect of mastitis on the phosphatase and phosphorylated esters in cow’s milk. By R. Chanda, E. C. Owen and P. S. Watts ... ii

The effect of thyroxine, thiouracil and stilboestrol on the metabolism of carotene and vitamin A in lactating goats. By R. Chanda, H. M. Clapham and E. C. Owen ... iii

The nitrogen metabolism of Penicillium notatum. By R. M. Mackenzie and R. P. Cook ... iii

The changes in cacao polyphenolic substances during fermentation. By W. G. C. Forsyth ... iii

The carbohydrates of human cerebrospinal fluid. By M. D. Eastham and K. R. Keay ... iv

Observations on the growth of Escherichia coli on amino-acids as sole nitrogen source. By E. A. Dawes ... v

The combination of peptides with metals. 1. Cupric ions with glycylglycine and diglycylglycine. By H. Dobbie, W. O. Kermack and H. Lees ... v

The prosthetic group of xanthine oxidase. By D. B. Morell ... vi

Physical toxicity in aqueous solutions. By J. C. McGowan ... vii

Spectrophotometric determination of fructose-1:6-diphosphate, hexosemonophosphates, adenosinetriphosphate and adenosinediphosphate. By E. C. Slater ... vii

The purification of ox liver β-glucuronidase. By E. E. B. Smith ... viii

The influence of partial hepatectomy and other procedures on the β-glucuronidase activity of rat liver. By G. T. Mills ... viii

The β-glucuronidase activity of chemically induced rat hepatoma. By G. T. Mills and E. E. B. Smith ... ix

The multiple nature and potency for different micro-organisms of the vitamin B_{12} activity of calf rumen contents and faeces. By J. E. Ford, S. K. Kon and J. W. G. Porter ... ix

Further observations on carotenogenesis by Phycomyces blakesleeanus. By J. Glover, T. W. Goodwin and W. Linsky ... x

Procedures for the fractionation of hydrolysis products of amylose and starch. By D. L. Mould and R. L. M. Syngye ... xi

The synthesis of hexuronides and related compounds. By C. A. Marsh ... xi