

AUTHOR INDEX

- AHMED, Z. AND E. J. KING
(Purification of placental alkaline phosphatase) 320
- ALBERS, R. W. AND W. B. JAKOBY
(Exchange reactions catalyzed by γ -aminobutyric-glutamic transaminase) 457
- ALLISON, A. C. AND R. C. VALENTINE
(Virus particle adsorption. II. Adsorption of vaccinia and fowl plague viruses to cells) 393
- ALLISON, A. C. AND R. C. VALENTINE
(Virus particle adsorption. III. Adsorption of viruses by cell monolayers and effects of some variables on adsorption) 400
- ARNON, R., see SELA, M. 382
- ASSELINAEU, J., see BIEMANN, K. . . . 369
- AVIGAD, G.
(Accumulation of trehalose and sucrose in relation to the metabolism of α -glucosides in yeasts of defined genotype) 124
- AVRON, M.
(Photophosphorylation by Swiss-chard chloroplasts) 257
- AXELROD, J., see KOPIN, I. J. 377
- BACHRACH, U. AND R. BAR-OR
(Formation of spermidine from spermine by serum amine oxidase) 545
- BAILEY, K., see KAY, C. M. 149
- BAKER, R. W. R., see MAGEE, W. L. . . 118
- BALÓ, J., see BANGA, I. 367
- BALTSCHIEFFSKY, H.
(Flavin nucleotides and light-induced phosphorylation in cell-free extracts of *R. rubrum*) 1
- BANGA, I. AND J. BALÓ
(Elasticity-increasing property of elastomucoproteinase) 367
- BARKER, G. R. AND I. C. GILLAM
(Nucleoside phosphorylase of pig liver and calf spleen) 163
- BAR-OR, R., see BACHRACH, U. 545
- BASSETT, E. W. AND S. W. TANENBAUM
(Acetyl-coenzyme A in patulin biosynthesis) 535
- BAUER, N. AND R. G. MORTIMER
(Secondary gasation of heme proteins and biological N_2 -fixation) 170
- BEAUFAY, H., see DE DUVE, C. 186
- BEAVEN, G. H., see CHARLWOOD, P. A. . 191
- BERLINER, D. L., see SWEAT, M. L. . . . 289
- BIEMANN, K., C. LIORET, J. ASSELINAEU, E. LEDERER AND J. POLONSKY
(Structure of lysopine, a new amino acid isolated from crown gall tissue) . 369
- BINNIE, B., E. A. DAWES AND W. H. HOLMS
(Metabolism of *Sarcina lutea*. IV. Patterns of oxidative assimilation) . . . 237
- BIRKENHÄGER, J. C.
(Reversible inhibition of aldolase by ferricyanide) 182
- BORREBÆK, B., see WALAAS, O. 562
- BRAKE, J. M. AND F. WOLD
(Photo-oxidation of yeast enolase) . . 171
- BREUER, H., R. KNUFFEN, R. ORTLEPP, G. PANGELS AND A. PUCK
(Biogenesis of 6-hydroxylated oestrogens in human tissues) 560
- BRILL, A. S., A. EHRENBERG AND H. DEN HARTOG
(Magneto-kinetic study of reaction between ferrimyoglobin and methyl hydrogen peroxide) 313
- BROCKMAN, R. W., J. M. DAVIS AND P. STUTTS
(Metabolism of uracil and 5-fluorouracil by drug-sensitive and by drug-resistant bacteria) 22
- BRODIE, A. F., see KASHKET, E. R. . . . 550
- BROQUIST, H. P., see WEYTER, F. W. . . 567
- BROWN, R. A., see KRONMAN, M. J. . . . 410
- BRYSON, M. J., see SWEAT, M. L. 289
- BUCHER, N. L. R., P. OVERATH AND F. LYNEN
(β -Hydroxy- β -methylglutaryl coenzyme A reductase, cleavage and condensing enzymes in relation to cholesterol formation in rat liver) 491
- BULBROOK, R. D., F. C. GREENWOOD AND B. S. THOMAS
(Isolation of androsterone and aetiocholanolone from urine of oophorectomised-adrenalectomised women) . . . 361
- BUZZELL, A., see ENGLANDER, S. W. . . . 385
- CAMPBELL, N. K., see WOOLLEY, D. W. . . 543
- CHARGAFF, E., see TUNIS, M. 206
- CHARLWOOD, P. A., W. B. GRATZER AND G. H. BEAVEN
(Comment on the pH-dependent dissociation of haemoglobins) 191
- CHVAPIL, M. AND R. ZAHRADNÍK
(Chemical shrinkage and relaxation of collagen fibres) 329
- CLAYTON, R. K.
(Kinetics of H_2O_2 destruction in *Rps. spheroides*: Roles of catalase and other enzymes) 165
- COLOBERT, L. AND O. CREACH
(Obtention du substrat du lysozyme contenu dans la paroi ectoplasmique d'*Eberthella typhi*) 167
- COLTER, J. S., see KRONMAN, M. J. . . . 410
- COUSINS, F. B.
(Prosthetic group of chromoprotein from mycobacteria) 532
- CREACH, O., see COLOBERT, L. 167
- DAM, H., see JACOBSEN, B. K. 211
- DAVIS, F. F., see HARRIS, D. N. 373

- DAVIS, J. M., see BROCKMAN, R. W. . . . 22
- DAWES, E. A., see BINNIE, B. . . . 237
- DAWSON, R. M. C., see DITTMER, J. C. . . 379
- DE CONINCK, S., see DE DUVE, C. . . . 186
- DE DUVE, C., H. BEAUFAY, P. JACQUES, Y. RAHMAN-LI, O. Z. SELLINGER, R. WATTIAUX AND F. DE KONINCK (Intracellular localization of catalase and of some oxidases in rat liver) . . 186
- DE GROOT, N. AND N. LICHTENSTEIN (Action of mammalian liver enzyme preparations on asparagine and asparagine derivatives) 92
- DE GROOT, N. AND N. LICHTENSTEIN (Action of *Pseudomonas fluorescens* extracts on asparagine and asparagine derivatives) 99
- DEKKER, E. E. (Enzymic formation of glyoxylic acid from γ -hydroxyglutamic acid) 174
- DE LEY, J. AND R. DOCHY (Localisation of oxidase systems in *acetobacter* cells) 277
- DE LUCA, H. F., S. REISER, H. STEENBOCK AND P. KAESBERG (Vitamin D and structure of kidney mitochondria) 526
- DEN HARTOG, H., see BRILL, A. S. . . . 313
- DITTMER, J. C. AND R. M. C. DAWSON (Isolation of new complex lipid: triphosphoinositide from ox brain) . . 379
- DOCHY, R., see DE LEY, J. 277
- DOUDNEY, C. O. AND F. L. HAAS (Chloramphenicol, nucleic acid synthesis and mutation induced by ultra violet light) 375
- DUMONT, J. E. (Hexose monophosphate pathway in thyroid tissue) 354
- EHRENBERG, A., see BRILL, A. S. . . . 313
- ELÖDI, P. (Role of sulphydryl groups in stabilisation of structure of d-glyceraldehyde-3-phosphate dehydrogenase) 272
- ENGLANDER, S. W., A. BUZZELL AND M. A. LAUFFER (Relationship between inactivation of tobacco mosaic virus by X-rays and breakage of nucleic acid) 385
- FORRO, F., JR. AND S. A. WERTHEIMER (Organization and replication of DRNA in thymine-deficient strains of *E. coli*) . 9
- FUJII, M., see HIZUKURI, S. 346
- FUJIMORI, E. (Emission of tryptophan) 251
- GANGULY, J. (Mechanism of fatty acid synthesis. VII. Biosynthesis of fatty acids from malonyl CoA) 110
- GAULL, G., D. D. HAGERMAN AND CL. A. VILLEE (Preparation and properties of glutamic dehydrogenase from human placenta) 552
- GHUYSEN, J. M. AND M. R. J. SALTON (Acetylhexosamine compounds enzymically released from *Micrococcus lysodeikticus* cell walls. I. Isolation and composition of acetylhexosamine and acetylhexosamine-peptide complexes) 462
- GHUYSEN, J. M. (Acetylhexosamine compounds enzymically released from *Micrococcus lysodeikticus* cell walls. II. Enzymic sensitivity of purified acetylhexosamine and acetylhexosamine-peptide complexes) 473
- GILBERT, I. G. F. (Microelectrophoretic studies of soluble collagen) 156
- GILLAM, I. G., see BARKER, G. R. . . . 163
- GOEDDE, H. W., see HOLZER, H. . . . 297
- GOHDES, P., see MURRAY, M. 518
- GOLDFINE, H. (Formation of γ -hydroxy- γ -methylglutamic acid from common impurity in pyruvic acid) 557
- GOOD, N. E. (Activation of the Hill reactions by amines) 502
- GRATZER, W. B., see CHARLWOOD, P. A. . 191
- GREENWOOD, F. C., see BULBROOK, R. D. 361
- HAAS, F. L., see DOUDNEY, C. O. . . . 375
- HAGERMAN, D. D., see GAULL, G. . . . 552
- HAGIHARA, B., see KUSAT, K. 555
- HALVORSON, H., see MANDELSTAM, J. . . 43
- HAMOIR, G., H. A. MCKENZIE AND M. B. SMITH (Isolation and properties of fish myosin) 141
- HARRIS, D. N. AND F. F. DAVIS (Electrophoresis of nucleic acids in silica gel) 373
- HASKELL, J., see SWEAT, M. L. 289
- HIKAWA, R., see OGATA, K. 178
- HIZUKURI, S., M. FUJII AND Z. NIKUNI (Effect of inorganic ions on crystallization of amylopectin) 346
- HOARD, D. E. (Applicability of formal titration to the problem of end-group determinations in polynucleotides. A preliminary investigation) 62
- HOLMS, W. H., see BINNIE, B. 237
- HOLMSTROM, E. G., see SWEAT, M. L. . . 289
- HOLZER, H. AND H. W. GOEDDE (Bildung von Erythrose aus Hydroxypyruvat durch Hefeenzymen) . . 297
- HORIO, T., see YAMANAKA, T. 349
- HOSKIN, F. C. G. (Effect of inhibitors on metabolism of specifically labelled glucose by brain) . 309
- HRADEC, J. AND A. ŠTROUPOVÁ (Protein-synthesis-affecting substance from biological materials) 32
- HULTIN, T., see VON DER DECKEN, A. . . 189
- HURLBERT, R. B., see MOORE, E. C. . . . 371
- IBUKI, F., see MATSUSHITA, S. 540
- IBUKI, F., see MATSUSHITA, S. 358
- IRREVERRE, P., see VISWANATHA, T. . . . 564
- JACOBSEN, B. K. AND H. DAM

- (Vitamin K in bacteria) 211
- JACQUES, P., see DE DUVE, C. 186
- JAKOBY, W. B., see ALBERS, R. W. 457
- KAESBERG, P., see DELUCA, H. F. 526
- KASHKET, E. R. AND A. F. BRODIE
(Subcellular distribution of biologically active naphthoquinone in *M. phlei*) 550
- KAY, C. M. AND K. BAILEY
(Light scattering in solutions of native and guanidinated rabbit tropomyosin) 149
- KEPES, A.
(Etudes cinétiques sur la galactoside-perméase d'*E. coli*) 70
- KING, E. J., see AHMED, Z. 320
- KIRBY, K. S.
(Fractionation and countercurrent distribution of RNA) 193
- KISLIUK, R. L.
(Mild procedure for separating enzymes and cofactors) 531
- KITAGAWA, S., see TONOMURA, Y. 135
- KNUPPEN, R., see BREUER, H. 560
- KOPIN, I. J., C. M. B. PARE, J. AXELROD AND H. H. WEISSBACH
(6-hydroxylation, major metabolic pathway for melatonin) 377
- KRISTIANSEN, T., see WALAAS, O. 562
- KRONMAN, M. J., S. N. TIMASHEFF, J. S. COLTER AND R. A. BROWN
(Light-scattering studies on ascites tumor cell RNA) 410
- KUSAI, K., I. SEKUZU, B. HAGIHARA, K. OKUNUKI, S. YAMAUCHI AND M. NAKAI
(Crystallization of glucose oxidase from *Penicillium amagasakiense*) 555
- LAMBETH, J., see WESTLEY, J. 364
- LAUFFER, M. A., see ENGLANDER, S. W. 385
- LAWSON, W. B., see VISWANATHA, T. 216
- LEDERER, E., see BIEMANN, K. 369
- LICHTENSTEIN, N., see DE GROOT, N. 92
- LICHTENSTEIN, N., see DE GROOT, N. 99
- LOIRET, C., see BIEMANN, K. 369
- LYNEN, F., see BUCHER, N. L. R. 491
- MCKENZIE, H. A., see HAMOIR, G. 141
- MAGEE, W. L., R. W. R. BAKER AND R. H. S. THOMPSON
(Identification and quantitative estimation of ethanolamine and serine in lipid hydrolysates) 118
- MANDELSTAM, J. AND H. HALVORSON
(Turnover of protein and nucleic acid in soluble and ribosomal fractions of non-growing *E. coli*) 43
- MARUO, B., see NISHIMURA, S. 355
- MASSEY, V. AND C. VEEGER
(Reaction mechanism of lipoyl dehydrogenase) 184
- MATSUSHITA, S. AND F. IBUKI
(Peroxidase activity found in ribonucleoprotein particles from pea seedlings and rabbit liver) 540
- MATSUSHITA, S. AND F. IBUKI
(Ribonucleases in microsomes from pea seedlings) 358
- MILLER, E. C. AND J. A. MILLER
(Mechanism of *o*-hydroxylation of aromatic amines *in vivo*) 380
- MILLER, J. A., see MILLER, E. C. 380
- MOORE, E. C. AND R. B. HURLBERT
(Reduction of 5'-cytidylic acid to deoxycytidylic acid by mammalian enzymes) 371
- MOROWITZ, H. J.
(Some consequences of application of second law of thermodynamics to cellular systems) 340
- MORTIMER, R. G., see BAUER, N. 170
- MUELLER, H. AND S. V. PERRY
(Chromatographic behaviour and adenosine triphosphatase activities of meromyosins) 187
- MURRAY, M. AND P. GOHDES
(Purification of *Staphylococcal coagulase*) 518
- NABORS, JR., C., see SWEAT, M. L. 289
- NAKAI, M., see KUSAI, K. 555
- NIKUNI, Z., see HIZUKURI, S. 346
- NISHIMURA, S. AND B. MARUO
(Intracellular ribonuclease from *Bacillus subtilis*) 355
- NOALL, M. W.
(Early effect of estradiol on amino acid penetration in rabbit uterus) 180
- Nygaard, A. P.
(Lactic dehydrogenase of yeast. III. Comparative study of kinetic properties and stability of two isolated forms of enzyme) 85
- O'DELL, B. L., see STEINBERG, D. 225
- OGATA, K., R. HIROKAWA AND S. OMORI
(Incorporation of leucine into microsomal albumin by microsomes and pH-5 enzymes from normal rat liver) 178
- OKAZAKI, R., see SUGINO, Y. 417
- OKAZAKI, T., see SUGINO, Y. 417
- OKUNUKI, K., see YAMANAKA, T. 349
- OKUNUKI, K., see KUSAI, K. 555
- OMORI, S., see OGATA, K. 178
- ORTLEPP, R., see BREUER, H. 560
- OVERATH, P., see BUCHER, N. L. R. 491
- PANGELS, G., see BREUER, H. 560
- PARE, C. M. B., see KOPIN, I. J. 377
- PERRY, S. V., see MUELLER, H. 187
- PITOT, H. C. AND V. R. POTTER
(Enzymic study on cellular origin of the Dunning and Novikoff hepatomas in rat) 537
- POLONSKY, J., see BIEMANN, K. 369
- POTTER, V. R., see PITOT, H. C. 537
- PUCK, A., see BREUER, H. 560
- RADHAKRISHNAN, A. N.
(Preparation of active glucose 6-phosphate dehydrogenase from *N. crassa*) 546
- RAHMAN-LI, Y., see DE DUVE, C. 186
- REISER, S., see DELUCA, H. F. 526
- RÍMAN, J. AND B. THORELL
(Nucleotide enzyme complex associated with fowl leukemia virus) 565
- SALTON, M. R. J., see GHUYSEN, J. M. 462
- SEKUZU, I., see KUSAI, K. 555
- SELA, M. AND R. ARNON

- (Specific synthetic polypeptide antigen). 382
- SELLINGER, O. Z., see DE DUVE, C. . . . 186
- SELLS, B. H.
(Effect of thymidine upon incorporation of uracil into *B. creus*) 548
- SHERMAN, F. G., see STEINBERG, D. . . . 225
- SLATER, E. C., see VAN DEN BERGH, S. G. 176
- SMITH, A. A. AND S. B. WORTIS
(Formation of tryptophol in disulfiram-treated rat) 569
- SMITH, K. C.
(Isolation of "soluble RNA" without an ultracentrifuge) 360
- SMITH, M. B., see HAMOFF, G. 141
- STEENBOCK, H., see DE LUCA, H. F. . . . 526
- STEINBERG, D., M. VAUGHAN, F. G. SHERMAN AND B. L. O'DELL
(Acidic peptide conjugates in mammalian liver) 225
- STEINBERG, D., see VAUGHAN, M. 230
- ŠTROUFVÁ, A., see HRADEC, J. 32
- STUTTS, P., see BROCKMAN, R. W. . . . 22
- SUGINO, Y., N. SUGINO, R. OKAZAKI AND T. OKAZAKI
(Deoxynucleosidic compounds. I. A modified microbioassay method and its application to sea urchin eggs and several other materials) 417
- SUGINO, N., see SUGINO, Y. 417
- SUGINO, Y.
(Deoxynucleosidic compounds. II. Deoxycytidine diphosphate choline in sea urchin eggs) 425
- SWEAT, M. L., D. L. BERLINER, M. J. BRYSON, C. NABORS, JR., J. HASKELL AND E. G. HOLMSTROM
(Synthesis and metabolism of progesterone in human and bovine ovary) . . 289
- TANENBAUM, S. W., see BASSETT, E. W. . 535
- THOMAS, B. S., see BULBROOK, R. D. . . 361
- THOMAS, R.
(Observations relatives au rôle des protéines du milieu dans les phénomènes de transformations bactériennes) 50
- THOMPSON, R. H. S., see MAGEE, W. L. . 118
- THORELL, B., see RÍMAN, J. 565
- TIMASHEFF, S. N., see KRONMAN, M. J. . 410
- TONOMURA, Y. AND S. KITAGAWA
(Initial phase of actomyosin-adenosine triphosphatase. II. Factors influencing activity) 135
- TUNIS, M. AND E. CHARGAFF
(Nucleoside phosphotransferase of carrot. III. Synthetic ability of transfer enzyme) 206
- VALENTINE, R. C., see ALLISON, A. C. . . 393
- VALENTINE, R. C., see ALLISON, A. C. . 400
- VAN DEN BERGH, S. G. AND E. C. SLATER
(Respiratory activity and respiratory control of sarcosomes isolated from thoracic muscle of the house fly) . . . 176
- VAUGHAN, M., see STEINBERG, D. 225
- VAUGHAN, M. AND D. STEINBERG
(Biosynthetic incorporation of fluorophenylalanine into crystalline proteins) 230
- VEEGER, C., see MASSEY, V. 184
- VILLRE, CL. A., see GAULL, G. 552
- VILLOUTREIX, J.
(Influence de divers agents chimiques sur la caroténogénèse de *Rh. mucilaginosa*) 434
- VILLOUTREIX, J.
(Les caroténoïdes de *Rh. mucilaginosa*. Etude de leur biosynthèse à l'aide de l'analyse de mutants et de l'emploi d'un inhibiteur de la caroténogénèse) 442
- VISWANATHA, T., W. B. LAWSON AND B. WITKOP
(Action of N-bromosuccinimide on trypsinogen and its derivatives) . . . 216
- VISWANATHA, T. AND F. IRREVERRE
(Occurrence of hydroxylysine in trypsin) 564
- VON DER DECKEN, A. AND T. HULTIN
(Transfer of labeled amino acids from "S-RNA" to purified ribonucleoprotein particles from rat liver microsomes) . . 189
- WALAAS, O., B. BORREBAK, T. KRISTIANSEN AND E. WALAAS
(Rapid incorporation of ^{14}C glucose into glucan-peptide complex of rat diaphragm *in vitro*) 562
- WALAAS, E., see WALAAS, O. 562
- WATTIAUX, R., see DE DUVE, C. 186
- WEIL-MALHERBE, H.
(Condensation of catechols with ethylenediamine) 351
- WEISSBACH, H. H., see KOPIN, J. J. . . . 377
- WERTHEIMER, S. A., see FORRO, F., JR. . 9
- WESTLEY, J. AND J. LAMBERTH
(Protein determination on basis of copper binding capacity) 364
- WEYTER, F. W. AND H. P. BROQUIST
(Interference with adenine and histidine metabolism of microorganisms by aminotriazole) 567
- WILLS, E. D.
(Relation of metals and -SH groups to activity of pancreatic lipase) 481
- WILSON, A. T.
(Detection of tritium on paper chromatograms) 522
- WITKOP, B., see VISWANATHA, T. 216
- WOLD, F., see BRAKE, J. M. 171
- WOOLLEY, D. W. AND N. K. CAMPELL
(Serotonin receptors. II. Calcium transport by crude and purified receptor) . 543
- WORTIS, S. B., see SMITH, A. A. 569
- YAMANAKA, T., T. HORIO AND K. OKUNUKI
(Purification and some properties of a b-type cytochrome from *Sclerotinia libertiana*) 349
- YAMAUCHI, S., see KUSAI, K. 535
- ZAHRADNÍK, R., see CHVAPIL, M. 329