# SUBJECT INDEX

| Acetobacter suboxydans, cellular locali-                      |     | women (Bulbrook, Greenwood and                                     |      |
|---|-----|--|------|
| zation of oxidase systems (De Ley and                         |     | THOMAS)  | 361  |
| Dochy)  | 277 | Aromatic amines, o-hydroxylation in vivo,                          |      |
| Acetyl-CoA, in patulin biosynthesis (BAS-                     |     | mechanism (Miller and Miller)                                      | 380  |
| SETT AND TANENBAUM)   | 535 | Asparagine, and derivatives, action of                             |      |
| Acetylhexosamine compounds, enzymi-                           |     | mammalian liver enzyme preparations                                |      |
| cally released from Micrococcus lyso-                         |     | on — (De Groot and Lichtenstein)                                   | 92   |
| deikticus cell walls, enzymic sensitivity                     |     | Asparagine, and derivatives, action of                             |      |
| of purified —— (Ghuysen)                                      | 473 | Pseudomonas fluorescens extracts on                                |      |
| Acetylhexosamine compounds, enzymi-                           |     | (DE GROOT AND LICHTENSTEIN)  | 99   |
| cally released from Micrococcus lyso-                         |     | Bacillus cereus, effect of thymidine upon                          |      |
| deikticus cell walls, isolation and com-                      |     | incorporation of uracil into — (SELLS)                             | 548  |
| position (Ghuysen and Salton)                                 | 462 | Bacillus subtilis, intracellular RNase from                        |      |
| Acidic peptide conjugates, in mammalian                       |     | —— (NISHIMURA AND MARUO)   | 355  |
| liver (Steinberg, Vaughan, Sherman                            |     | Bacteria, drug-sensitive and drug-resist-                          |      |
| AND O'DELL)   | 225 | ant, metabolism of uracil and 5-fluoro-                            |      |
| Actomyosin-ATPase, initial phase of ——,                       |     | uracil (Brockman, Davis and Stutts)                                | 22   |
| factors influencing activity (Tonomura                        |     | Bacteria, vitamin K in —— (JACOBSEN                                |      |
|   | 135 | AND DAM)   | 211  |
| Adenine, metabolism by microorganisms,                        |     | Bacterial transformations, studies on role                         |      |
| interference by aminotriazole (WEYTER                         | _   | of proteins (THOMAS)   | 5°   |
| AND BROQUIST)   | 567 | Brain, metabolism of specifically labelled                         |      |
| Adenosine triphosphatase, activities of                       | 0   | glucose, effect of inhibitors (Hoskin).                            | 309  |
| meromyosins (Mueller and Perry)                               | 187 | Brain, ox, isolation of a new complex                              |      |
| Adenosine triphosphatase, initial phase of                    |     | lipids: triphosphoinositide from ——                                |      |
| actomyosin ——, factors influencing                            |     | (DITTMER AND DAWSON)   | 379  |
| activity (Tonomura and Kitagawa).                             | 135 | N-Bromosuccinimide, action on trypsin-                             |      |
| Actiocholanolone, isolation from urine                        |     | ogen and derivatives (VISWANATHA,                                  | 6    |
| of oophorectomised-adrenalectomised                           |     | LAWSON AND WITKOP)   | 216  |
| women (Bulbrook, Greenwood and                                | 267 | Calcium, transport by crude and purified                           |      |
| THOMAS)   | 361 | serotonin receptor (Woolley And                                    |      |
| Aldolase, reversible inhibition by ferricyanide (Birkenhäger) | 182 | Campbell)  | 543  |
| Alkaline phosphatase, see Phosphatase                         | 102 | studies (VILLOUTREIX) 434,   | 4.40 |
| Amine oxidase, formation of spermidine                        |     | Catalase, intracellular localization in rat                        | 442  |
| from spermine by serum —— (BACH-                              |     | liver (DE DUVE, BEAUFAY, JACQUES,                                  |      |
| RACH AND BAR-OR)  | 545 | RAHMAN-LI, SELLINGER, WATTIAUX                                     |      |
| Amines, activation of Hill reaction by —                      | 343 | AND DE CONINCK)  | 18€  |
| (Good)  | 502 | Catalase, kinetics of H <sub>2</sub> O <sub>2</sub> destruction in | 100  |
| Amino acids, penetration in rabbit uterus,                    | 5-2 | Rhodopseudomonas spheroides, role of                               |      |
| early effect of estradiol on — (Noall)                        | 180 | — (CLAYTON)  | 165  |
| Amino acids, transfer from "S-RNA" to                         |     | Catechols, condensation with ethylene-                             | , 0, |
| purified ribonucleoprotein particles                          |     | diamine (Weil-Malherbe)  | 351  |
| from rat liver microsomes (Von der                            |     | Cell wall, Micrococcus lysodeikticus, acetyl-                      | 33-  |
| DECKEN AND HULTIN)  | 189 | hexosamine compounds enzymically                                   |      |
| γ-Aminobutyric-glutamic transaminase,                         |     | released from (GHUYSEN AND   |      |
| exchange reactions catalyzed by                               |     |  | 473  |
| (Albers and Jakoby)   | 457 | Salton)  | ,,,  |
| Aminotriazole, adenine and histidine                          |     | thesis and mutation induced by u.v                                 |      |
| metabolism of microorganisms, inter-                          |     | light (Doudney and Haas)   | 375  |
| ference by —— (Weyter and Bro-                                |     | Chloroplasts, swiss-chard, photophosphor-                          |      |
| QUIST)  | 567 | ylation by —— (AVRON)  | 257  |
| Amylodextrin, crystallization, effect of in-                  |     | Cholesterol, formation in rat liver, $\beta$ -                     |      |
| organic ions (Hizukuri, Fujii and                             | _   | hydroxy-β-methylglutaryl-CoA reduc-                                |      |
| NIKUNI)   | 346 | tase, cleaving and condensing enzymes                              |      |
| Androsterone, isolation from urine of                         |     | in relation to —— (BUCHER, OVERATH                                 |      |
| oophorectomised - adrenalectomised                            |     | AND LYNEN)   | 491  |

| Chromatography, behaviour of meromyo-         |                  | (FORRO AND WERTHEIMER)                                      | >              |
|---|------------------|---|----------------|
| sins (MUELLER AND PERRY)                      | 187              | Estradiol, amino acid penetration in rabbit                 |                |
| Chromatography, paper ——, detection of        |                  | uterus, early effect of (NOALL)                             | :80            |
| tritium (Wilson)                              | 522              | Ethanolamine, identification and quanti-                    |                |
| Chromoprotein, from Mycobacteria, pros-       |                  | tative estimation in lipid hydrolysates                     |                |
| thetic group of ——— (Cousins)                 | 532              | (MAGEE, BAKER AND THOMPSON)                                 | 111            |
| Cleavage enzyme, relation to cholesterol      |                  | Ethylenediamine, condensation of cate-                      |                |
| formation in rat liver (BUCHER,               |                  |   | 351            |
| OVERATH AND LYNEN)                            | 491              | Fatty acids, biosynthesis from malonyl-                     |                |
| Coagulase, Staphylococcus aureus, puri-       | _                | CoA (GANGULY)   | 110            |
| fication (MURRAY AND GOHDES)                  | 518              | Ferrimyoglobin, reaction between                            |                |
| Cofactors, mild procedure for separating      |                  | and methyl hydrogen peroxide, mag-                          |                |
| enzymes and — (KISLIUK)                       | 531              | neto-kinetic study (BRILL, EHREN-                           |                |
| Collagen, microelectrophoretic studies of     | _                | BERG AND DEN HARTOG)  | 3:3            |
| soluble —— (GILBERT)                          | 156              | Flavin nucleotides, role in photosynthetic                  |                |
| Collagen fibers, chemical shrinkage and       |                  | phosphorylation, cell-free extracts of                      |                |
| relaxation, study (CHVAPIL AND ZAH-           |                  | Rhodospirillum rubrum (BALTSCHEFFS-                         |                |
| RADNÍK)                                       | 329              | KY)   | T              |
| Condensing enzyme, relation to cholesterol    |                  | Fluorophenylalanine, biosynthetic incor-                    |                |
| formation in rat liver (BUCHER,               |                  | poration into crystalline proteins                          |                |
| OVERATH AND LYNEN)                            | 49I              | (Vaughan and Steinberg)                                     | 230            |
| Countercurrent distribution, of RNA           |                  | 5-Fluorouracil, metabolism by drug-sen-                     |                |
|   | 193              | sitive and drug-resistant bacteria                          |                |
| 5'-Cytidylic acid, reduction to desoxy-       |                  | (Brockman, Davis and Stutts)                                | .2 _2          |
| cytidylic acid by mammalian enzymes           |                  | Fowl leukemia virus, see Virus                              |                |
| (Moore and Hurlbert)                          | 37I              | Fowl plague virus, see Virus                                |                |
| Cytochrome, b-type —— from Sclerotinia        |                  | Galactoside-permease, Escherichia coli,                     |                |
| libertiana, purification and some prop-       |                  | kinetic studics (Keres)                                     | 70             |
| erties (Yamanaka, Horio and Oku-              |                  | Glucan-peptide complex, rat diaphragm,                      |                |
| NUKI)   | 349              | rapid in vitro incorporation of [14C]-                      |                |
| Desoxycytidine diphosphate choline, in        |                  | glucose into —— (Walaas, Borre-                             |                |
| sea urchin eggs (Sugino)                      | 425              | bæk, Kristiansen and Walaas)                                | 562            |
| Desoxycytidylic acid, reduction of 5'-        |                  | Gluconobacter liquefaciens, cellular local-                 |                |
| cytidylic acid to —— by mammalian             |                  | ization of oxidase systems (DE LEY                          |                |
| enzymes (Moore and Hurlbert)                  | 371              | AND DOCHY)  | 277            |
| Desoxynucleosidic compounds, studies          |                  | [MC]Glucose, rapid in vitro incorporation                   |                |
| (Sugino, Sugino, Okazaki and Oka-             |                  | into a glucan-peptide complex of rat                        |                |
| ZAKI)   | 425              | diaphragm (Walaas, Borrebæn,                                |                |
| Desoxyribonucleic acid, see Nucleic acid      |                  | Kristiansen and Walaas)                                     | 562            |
| Diaphragm, rat, rapid in vitro incorpo-       |                  | Glucose, specifically labelled, metabolism                  |                |
| ration of [14C]glucose into glucan-           |                  | by brain, effect of inhibitors (HOSKIN)                     | 309            |
| peptide complex (Walaas, Borre-               |                  | Glucose oxidase, from Penicillium amaga-                    |                |
| BÆK, Kristiansen and Walaas)                  | 562              | sakiense, crystallization (KUSAI, SE-                       |                |
| Eberthella typhi, isolation of substrate for  |                  | kuzu, Hagihara, Okunuki, Yamauchi                           |                |
| lysozyme from cell wall (Colobert             |                  | and Nakai)  | 555            |
| AND CREACH)                                   | 167              | Glucose-6-phosphatedehydrogenase, prep-                     |                |
| Elastomucoproteinase, elasticity-increas-     |                  | aration from Neurospora crassa (RAD-                        |                |
| ing property of —— (Banga and Baló)           | 3 <sup>6</sup> 7 | HAKRISHNAN)   | 546            |
| Electrophoresis, in silica gel of nucleic     |                  | Glutamic dehydrogenase, from human                          |                |
| acids (Harris and Davis)                      | 373              | placenta, preparation and properties                        |                |
| Enolase, photooxidation of yeast              |                  |   | 5.54           |
| (Brake and Wold)                              | 171              | n-Glyceraldehyde-3-phosphate dehydro-                       |                |
| Enzymes, mild procedure for separating        |                  | genase, role of sulphydryl groups in                        |                |
| co-factors and —— (KISLIUK)                   | 531              | stabilization of structure (ELÖDI)                          | 272            |
| Erythrulose, formation from hydroxy-          |                  | a-Glycosides, metabolism in yeast of de-                    |                |
| pyruvate by yeast enzymes (Holzer             |                  | fined genotype, accumulation of tre-                        |                |
| AND GOEDDE)                                   | 297              | halose and sucrose in relation to                           |                |
| Escherichia coli, kinetic studies on galacto- |                  | (AVIGAD)  | 124            |
| side-permease (KEPES)                         | 70               | Glyoxylic acid, enzymic formation from                      | ,              |
| Escherichia coli, non-growing, turnover of    |                  | y-hydroxy-glutamic acid (DEKKER)                            | → 7 <b>-</b> 1 |
| protein and RNA in soluble and ribo-          |                  | Hacmoglobin, a comment on pH-depend-                        |                |
| some fractions (MANDELSTAM AND                | 4.5              | ent dissociation of —— (CHARLWOOD,                          | 70"            |
| IIALVORSON)                                   | 43               | Gratzer and Beaven) Haem proteins, secondary gasation of —— | 191            |
| Escherichia coli, thymine-deficient strains,  |                  |   |                |
| organization and replication of DNA           |                  | and biological nitrogen fixation (BAUER                     |                |

| AND MORTIMER)  | 170      | Pare, Axelrod and Weissbach)  | 377   |
|--|----------|---|-------|
| Hepatomas, Dunning and Novikoff                      | •        | Meromyosin, chromatographic behaviour                                     |       |
|  |          |   |       |
| in rat, enzymic study on cellular origin             |          | and ATPase activities (MUELLER AND  |       |
| of —— (Pitot and Potter)                             | 537      | Perry)  | 187   |
| Hexose monophosphate, pathway in thy-                | 337      | Methyl hydrogen peroxide, reaction be-                                    | •     |
|  |          |   |       |
| roid tissue (Dumont)                                 | 354      | tween ferrimyoglobin and ——, mag-   |       |
| Hill reaction, activation by amines (Good)           |          | neto-kinetic study (Brill, Ehren-   |       |
| Histidine, metabolism by microorganisms,             | J        |   | 210   |
|  |          | BERG AND DEN HARTOG)  | 313   |
| interference by aminotriazole (WEYTER                |          | Micrococcus lysodeikticus, acetylhexos-                                   |       |
| AND BROQUIST)  | 567      | amine compounds released from cell  |       |
|  | 3-7      |   |       |
| γ-Hydroxyglutamic acid, enzymic for-                 |          | walls, studies (GHUYSEN AND SALTON)                                       |       |
| mation of glyoxylic acid from ——                     |          | 462,  | 473   |
| (Dekker)   | 774      | Microelectrophoresis, studies of soluble                                  | .,.   |
| TT 1   | 1/4      |   |       |
| Hydroxylysine, occurrence in trypsin                 |          | collagen (Gilbert)  | 150   |
| (VISWANATHA AND IRREVERRE)                           | 564      | Microorganisms, metabolism of adenine                                     |       |
|  | 3-1      |   |       |
| γ-Hydroxy-γ-methylglutamic acid, for-                |          | and histidine, interference by amino-                                     |       |
| mation from a common impurity in                     |          | triazole (Weyter and Broquist)  | 567   |
| pyruvic acid (Goldfine)                              | 557      | Microsomes, pea seedlings, RNases in —                                    |       |
|  | 337      |   | C     |
| $\beta$ -Hydroxy- $\beta$ -methylglutaryl-CoA reduc- |          | (Matsushita and Ibuki)  | 358   |
| tase, —, cleavage and condensing                     |          | Microsomes, rat liver, incorporation of                                   |       |
| enzymes in relation to cholesterol for-              |          | leucine into microsomal albumin by  |       |
|  |          |   |       |
| mation, rat liver (Bucher, Overath                   |          | pH-5 enzymes and —— (OGATA, HIRO-   |       |
| AND LYNEN)   | 491      | KAWA AND OMORI)   | 178   |
| Hydroxypyruvate, formation of erythru-               | 12-      | Mitochondria, kidney, vitamin D and                                       | / -   |
|  |          | ,                                   |       |
| lose from by yeast enzymes                           |          | structure of —— (DELUCA, REISER,  |       |
| (Holzer and Goedde)                                  | 297      | Steenbock and Kaesberg)   | 526   |
|  | - 21     |   | 5-0   |
| Kidney, vitamin D and the structure                  |          | Mutation, chloramphenicol, nucleic acid                                   |       |
| of mitochondria (Deluca, Reiser,                     |          | synthesis and —— induced by u.v   |       |
| Steenbock and Kaesberg)                              | 526      | light (Doudney and Haas)  | 275   |
|  | 320      |   | 375   |
| Lactic dehydrogenase, yeast, comparative             |          | Mycobacteria, prosthetic group of a                                       |       |
| study of two isolated forms (NYGAARD)                | 85       | chromoprotein from —— (Cousins) .   | 532   |
| Leucine, incorporation into microsomal               | J        | Mycobacterium phlei, subcellular distri-                                  | 00    |
|  |          |   |       |
| albumin by microsomes and pH-5 en-                   |          | bution of a biologically active naphto-                                   |       |
| zymes from rat liver (Ogata, Hiro-                   |          | quinone (Kashket and Brodie)  | 550   |
| KAWA AND OMORI)                                      | T = 8    | Myosin, fish, isolation and properties                                    | 33-   |
|  | 178      |   |       |
| Lipase, pancreatic —, relation of metals             |          | (Hamoir, McKenzie and Smith)  | 141   |
| and sulphydryl groups to activity of                 |          | Naphtoquinone, biologically active ——,                                    |       |
|  | .0-      |   |       |
| —— (Wills)   | 401      | subcellular distribution in Mycobac-                                      |       |
| Lipids, identification and quantitative              |          | terium phlei (Kashket and Brodie).  | 550   |
| estimation of ethanolamine and serine                |          | Neurospora crassa, preparation of an active                               |       |
|  |          |   |       |
| in hydrolysates (Magee, Baker and                    | _        | glucose-6-phosphate dehydrogenase   |       |
| Thompson)  | 118      | from —— (Radhakrishnan)   | 546   |
| Lipoyl dehydrogenase, reaction mecha-                |          | Nitrogen fixation, secondary gasation of                                  | ٠,    |
|  | - Q .    |   |       |
| nism, study (Massey and Veeger)                      | 184      | haem proteins and biological —  |       |
| Liver, mammalian, acidic peptide conju-              |          | (Bauer and Mortimer)  | 170   |
| gates in —— (STEINBERG, VAUGHAN,                     |          | Nuclease, ribo, in microsomes from  | •     |
|  | 22.      |   | a = 0 |
| SHERMAN AND O'DELL)                                  | 225      | pea seedlings (Matsushita and Ibuki)                                      | 358   |
| Liver, peroxidase activity found in ribo-            |          | Nuclease, ribo ——, intracellular ——                                       |       |
| nucleoprotein particles (Матѕиѕніта                  |          | from Bacillus subtilis (NISHIMURA AND                                     |       |
|  | <b>.</b> | M . =====   |       |
| AND IBUKI)   | 540      |   | 355   |
| Liver, rat, intracellular localization of            |          | Nucleic acid, chloramphenicol, synthesis                                  |       |
| catalase and some oxidases (DE Duve,                 |          |   |       |
| BEATTERN LACOURS D I. C.                             |          | of — and mutation induced by u.v  |       |
| Beaufay, Jacques, Rahman-Li, Sel-                    |          | light (Doudney and Haas)  | 375   |
| LINGER, WATTIAUX AND DE CONINCK)                     | 186      | Nucleic acid, desoxyribo —, organization                                  |       |
| Lysopine, new amino acid isolated from               |          | and replication, thymine-deficient  |       |
|  |          |   |       |
| crown gall tissue, structure (BIEMANN,               |          | strains of Escherichia coli (Forro and                                    |       |
| Lioret, Asselineau, Lederer and                      |          | Wertheimer)   | 9     |
| Polonsky)  | 369      | Nucleic acid, electrophoresis in silica gel                               | ,     |
| I recomme igolation of a between the                 | 209      |   |       |
| Lysozyme, isolation of substrate from cell           |          | (Harris and Davis)  | 373   |
| wall of Eberthella typhi (Colobert and               |          | Nucleic acid, inactivation of TMV by X-                                   |       |
| Creach)  | 167      | rays and breakage of —, relationship                                      |       |
| Malonyl-CoA, biosynthesis of fatty acids             |          | , cand browning or , retailousing   |       |
|  | /        | /Exer sypen Ducant com T  | -0.   |
|  |          | (Englander, Buzzell and Lauffer)  | 385   |
| from —— (GANGULY)                                    | 110      | (ENGLANDER, BUZZELL AND LAUFFER) Nucleic acid, ribo ——, fractionation and | 385   |
| from —— (GANGULY)                                    |          | Nucleic acid, ribo ——, fractionation and                                  | 385   |
|  |          |   |       |

| Nucleic acid, ribo, light scattering        |                 | Progesterone, synthesis and metabolism,     |      |
|---|-----------------|---|------|
| studies on ascites tumour cell              |                 | human and bovine ovary (SWEAT,              |      |
| (KRONMAN, TIMASHEFF, COLTER AND             |                 | BERLINER, BRYSON, NABORS, HASKELL           |      |
| Brown)                                      | 410             | AND HOLMSTROM)                              | 289  |
| Nucleic acid, soluble ribo, isolation       | •               | Protein, biosynthetic incorporation of      | -09  |
| without an ultracentrifuge (Sмітн)          | 360             | fluorophenylalanine into crystalline        |      |
| Nucleic acid, soluble ribo, transfer of     | <b>J</b>        | — (Vaughan and Steinberg)                   | 230  |
| amino acids from to purified ribo-          |                 | Protein, determination on basis of copper   | 2.30 |
| nucleoprotein particles from rat liver      |                 | binding capacity (Westley AND               |      |
| microsomes (VON DER DECKEN AND              |                 | Lambeth)                                    | 26.  |
| HULTIN)                                     | 180             | Protein, substance from biological materi-  | 304  |
| Nucleic acid, turnover in soluble and ribo- | 109             |   |      |
| some fractions of non-growing Escher-       |                 | als affecting synthesis of ——, studies      |      |
|   |                 | (Hradec and Stroufová)                      | 32   |
| ichia coli (MANDELSTAM AND HALVOR-          |                 | Protein, turnover in soluble and ribosome   |      |
| son)  | 43              | fractions of non-growing Escherichia        |      |
| Nucleoprotein, 1100 —— particles from       |                 | coli (MANDELSTAM AND HALVORSON) .           | 43   |
| pea seedlings and rabbit liver, peroxi-     |                 | Pseudomonas fluorescens, action of extracts |      |
| dase activity found in —— (MATSUS-          |                 | on asparagine and asparagine deriva-        |      |
| HITA AND IBUKI)                             | 540             | tives (DE GROOT AND LICHTENSTEIN)           | 99   |
| Nucleoprotein, ribo ——— particles from      |                 | Pyruvic acid, formation of γ-hydroxy-       |      |
| rat liver microsomes, transfer of amino     |                 | y-methylglutamic acid from a common         |      |
| acids from "S-RNA" to purified ——           | _               | impurity in —— (Goldfine)                   | 557  |
|   | 189             | Rhodopseudomonas spheroides, kinetics of    |      |
| Nucleoside phosphorylase, pig liver and     |                 | $H_2O_2$ destruction, roles of catalase and |      |
| calf spleen (BARKER AND GILLAM)             | 163             | other enzymes (CLAYTON)                     | 265  |
| Nucleoside phosphotransferase, carrot,      |                 | Rhodospirillum rubrum, flavin nucleotides   |      |
| synthetic ability of the transfer enzyme    |                 | and photophosphorylation in cell-free       |      |
| (Tunis and Chargaff)                        | 206             | extracts (Baltscheffsky)                    | r    |
| Nucleotide enzyme complex, associated       |                 | Rhodotorula mucilaginosa, biosynthetic      |      |
| with fowl leukemia virus (RIMAN AND         |                 | study of carotenoids by analysis of         |      |
| Thorell)                                    | 565             | mutants and use of inhibitor of caro-       |      |
| Oestrogens, 6-hydroxylated, bio-            |                 | tenogenesis (VILLOUTREIX)                   | 443  |
| genesis in human tissues (Brever,           |                 | Rhodotorula mucilaginosa, influence of      | • •  |
| KNUPPEN, ORTLEPP, PANGELS AND               |                 | various chemical agents on caroteno-        |      |
| Риск)                                       | 560             | genesis (VILLOUTREIX)                       | 434  |
| Ovary, human and bovine, synthesis and      | 3               | Ribonuclease, see Nuclease                  | 7.77 |
| metabolism of progesterone (SWEAT,          |                 | Ribonucleic acid, see Nucleic acid          |      |
| Berliner, Bryson, Nabors, Haskell           |                 | Ribonucleoprotein, see Nucleoprotein        |      |
| AND HOLMSTROM)                              | 289             | Ribosomes, non-growing Escherichia coli,    |      |
| Paper chromatography,                       | -09             | turnover of protein and RNA (Mannet-        |      |
| see Chromatography                          |                 | STAM AND HALVORSON)                         | 12   |
| Patulin, acetyl-CoA in biosynthesis of      |                 | Sarcina lutea, metabolism, patterns of      | 43   |
| (Bassett and Tanenbaum)                     | 20E             | oxidative assimilation (BINNIE, DAWES       |      |
| Penicillium amagasahiense, crystallization  | 333             |   | 22~  |
| of glucose oxidase from —— (Kusai,          |                 |   | 237  |
| SEKUZU, HAGIHARA, OKUNUKI, YAMA-            |                 | Sarcosomes, thoracic muscle of house fly,   |      |
|   |                 | respiratory activity and respiratory        |      |
| UCHI AND NAKAI)                             | 222             | control of (VAN DEN BERG AND                |      |
| Peptide conjugates, acidic —— in mam-       |                 | SLATER)                                     | 170  |
| malian liver (Steinberg, Vaughan,           |                 | Sclerotinia libertiana, purification and    |      |
|   | 225             | some properties of a b-type cytochrome      |      |
| Peroxidase, activity of ribonucleoprotein   |                 |   | 349  |
| particles from pea seedlings and rabbit     |                 | Sea urchin eggs, desoxycytidine diphos-     |      |
| liver (Matsushita and Ibuki)                | 540             | phate choline in (SUGINO)                   | 425  |
| Phosphatase, placental alkaline, puri-      |                 | Sea urchin eggs, modified microbioassay     |      |
| fication (AHMED AND KING)                   | 320             | method for desoxynucleosides, appli-        |      |
| Photophosphorylation, by swiss-chard        |                 | cation to —— (Sugino, Sugino, Oka-          |      |
| chloroplasts (Avron)                        | <sup>2</sup> 57 | ZAKI AND OKAZAKI)                           | 417  |
| Photophosphorylation, cell-free extracts    |                 | Serine, identification and quantitative     |      |
| of Rhodospirillum rubrum, flavin nu-        | -               | estimation in lipid hydrolysates (MA-       |      |
| cleotides and —— (BALTSCHEFFSKY) .          | ī               | GEE, BAKER AND THOMPSON)                    | 118  |
| Polynucleotides, end-group determina-       |                 | Serotonin, calcium transport by crude and   |      |
| tions, applicability of formel titration    | 6.              | purified receptor (Woolley AND              |      |
| (HOARD)                                     | 62              | CAMPBELL)                                   | 543  |
| Polypeptide antigen, a specific synthetic   | -0-             | Spermidine, formation from spermine by      |      |
| —— (SELA AND ARNON)                         | 402             | serum amine oxidase (Bachrach and           |      |

| Bar-Or)  | 545        | HEFF, COLTER AND BROWN)   | 410   |
|--|------------|---|-------|
| Staphylococcus aureus, purification of coagulase (Murray and Gohdes) | <b>518</b> | Uracil, incorporation into Bacillus cereus, effect of thymidine (Sells)     | 548   |
| Sucrose, accumulation in relation to me-                             | 510        | Uracil, metabolism by drug-sensitive and                                    | 24    |
| tabolism of $\alpha$ -glycosides in yeasts of                        |            | drug-resistant bacteria (BROCKMAN,  |       |
| defined genotype (AVIGAD)  | 124        | DAVIS AND STUTTS)   | 22    |
| Sulphydryl groups, relation of metals and                            | ·          | Uterus, rabbit, early effect of estradiol on                                |       |
| — to activity of pancreatic lipase                                   |            | amino acid penetration in —— (NOALL)  | 180   |
| (WILLS)  | 481        | Vaccinia virus, see Virus   |       |
| Sulphydryl groups, role in stabilization of                          |            | Vitamin D, and the structure of kidney                                      |       |
| structure of D-glyceraldehyde-3-phos-                                |            | mitochondria (Deluca, Reiser, Steen-  |       |
| phate dehydrogenase (ELÖDI)  | 272        | BOCK AND KAESBERG)  | 526   |
| Thermodynamics, application of the                                   |            | Vitamin K, in bacteria (JACOBSEN AND  | 0.1.1 |
| second law to cellular systems, some consequences (Morowitz)         | 240        | Dam)  | 211   |
| Thymidine, incorporation of uracil into                              | 340        | effects of some variables (Allison and                                      |       |
| Bacillus cereus, effect of —— (Sells)                                | 548        | VALENTINE)  | 400   |
| Thyroid tissue, hexose monophosphate                                 | JT-        | Virus, fowl leukemia —, a nucleotide  |       |
| pathway in —— (Dumont)   | 354        | enzyme complex associated with —  |       |
| Tobacco mosaic virus, see Virus                                      |            | (RIMAN AND THORELL)   | 565   |
| Trehalose, accumulation in relation to                               |            | Virus, tobacco mosaic, inactivation   |       |
| metabolism of $\alpha$ -glycosides in yeasts of                      |            | by X-rays and breakage of nucleic acid,                                     |       |
| defined genotype (AVIGAD)  | 124        | relationship (Englander, Buzzell  | _     |
| Triphosphoinositide, new complex lipids                              |            | AND LAUFFER)  | 385   |
| isolated from ox brain (DITTMER AND                                  |            | Virus, vaccinia and fowl plague, ad-  |       |
| Dawson)  | 379        | sorption to cells in suspension (Allison                                    |       |
| Tritium, detection on paper chromato-                                | 700        | AND VALENTINE)  | 393   |
| grams (Wilson)   | 522        | X-rays, inactivation of TMV by breakage of nucleic acid and —, relationship |       |
| solutions of native and guanidinated                                 |            | (Englander, Buzzell and Lauffer)  | 38:   |
| — (KAY AND BAILEY)   | 149        | Yeast, comparative study of two isolated                                    | J°.   |
| Trypsin, occurrence of hydroxylysine in                              | 15         | forms of lactic dehydrogenase (Ny-  |       |
| (Viswanatha and Irreverre) .   | 564        | GAARD)  | 8.5   |
| Trypsinogen, action of N-bromosuccin-                                | •          | Yeast, formation of erythrulose from hy-                                    |       |
| imide on —— (Viswanatha, Lawson                                      |            | droxypyruvate by enzymes from ——  |       |
| AND WITKOP)  | 216        | (Holzer and Goedde)   | 297   |
| Tryptophan, studies on emission of ——                                |            | Yeast, of defined genotype, accumulation                                    |       |
| (Fujimori)   | 251        | of trehalose and sucrose in relation to                                     |       |
| Tryptophol, formation in disulfiram-                                 | <b>760</b> | metabolism of $\alpha$ -glycosides (AVIGAD).                                | 124   |
| treated rat (SMITH AND WORTIS)                                       | 569        | Yeast, photooxidation of enolase (Brake                                     |       |
| Tumour, ascites —, light scattering                                  |            | AND Wold)   | 171   |
|  |            |   |       |

#### ERRATA

### BIOCHIMICA ET BIOPHYSICA ACTA, VOL. 40 (1960)

### Page 137:

Line 3: Change "during" into "after".

Legend Fig. 3: Add "The fine curve indicates hydrolysis of ITP.".

Line 9: Between "phase" and "ATPase" insert "of".

## Page 138:

Line 6: Delete "B".