

AUTHOR INDEX

- ADAMSON, L. F. AND D. M. GREENBERG . . . 472
 ALTMAN, K. I., see KOSZALKA, T. R.
 ANDERSEN, B., see KLENOW, H.
 BAGLIONI, C., see FASELLA, P.
 BARANOWSKA, J., see SHUGAR, D.
 BAUM, H., see HÜBSCHER, G.
 BAYLEY, S. T., see COLVIN, J. R.
 BEER, M., see COLVIN, J. R.
 BENESCH, R. AND R. E. BENESCH . . . 643
 —, see BENESCH, R. E.
 BENESCH, R. E. AND R. BENESCH . . . 658
 —, see BENESCH, R.
 BENSON, A. A., see MAYAUDON, J.
 BERGER, M. 504
 BERNHEIM, F., see BERNHEIM, M. L. C.
 BERNHEIM, M. L. C., A. OTTOLENGHI AND
 F. BERNHEIM 431
 BERTI, E., see CERIOTTI, G.
 BESSMAN, M. J., see SCHMIDT, G.
 BIERI, J. G., C. J. POLLARD AND M. E. REID 650
 BLACK, A. L. AND M. KLEIBER 59
 —, M. KLEIBER, A. H. SMITH AND D. N.
 STEWART 54
 BLAKLEY, R. L. 654
 BLOCH, H., J. DEFAYE, E. LEDERER AND
 H. NOLL 312
 BOERI, E. AND A. GHIRETTI-MAGALDI . . 489
 BORENFREUND, E., see DISCHE, Z.
 BRESNICK, E., see CERECEDO, L. R.
 BROMBACHER, P. J., see EMMELOT, P.
 BRONK, J. R., see KIELLEY, W. W.
 BROWN, D. H., see GLASER, L.
 BUCKLEY, S. D., see MEISTER, A.
 CALVIN, M., see GRISEBACH, H.
 —, see MAYAUDON, J.
 CANELLAKIS, E. S. 217
 CANN, J. R., see PHELPS, R. A.
 CERECEDO, L. R. AND E. BRESNICK . . . 226
 CERIOTTI, G., L. SPANDRIO AND E. BERTI 362
 CHAPEVILLE, F., see FROMAGEOT, P.
 CHARGAFF, E., see SHAPIRO, H. S.
 CHOWERS, I., see SHAPIRO, B.
 CIOTTI, M. M., see VAN EYS, J.
 CLARK, C. M., D. J. NAISMITH AND H. N.
 MUNRO 587
 COLPA-BOONSTRA, J. P. AND E. C. SLATER 222
 COLVIN, J. R., S. T. BAYLEY AND M. BEER 652
 CONSTANTIN, M. J., see SARDA, L.
 CORT, J. H. AND A. KLEINZELLER . . . 321
 COWLISHAW, B. AND I. PRANGE 663
 CRIMMIN, W. R. C., see MILL, P. J.
 CURRAN, J. F., see TOMKINS, G. M.
 DAWSON, R. M. C. 215
 DE BERNARD, B. 510
 DEFAYE, J., see BLOCH, H.
 DESNUELLE, P., see ROVERY, M.
 —, see SARDA, L.
 DISCHE, Z. AND E. BORENFREUND . . . 639
 DIXON, G. H. AND O. SMITHIES 198
 DOTY, P., see ZUBAY, G.
 DOUGLAS, H. C., see PARKS, L. W.
 EARLAND, C. AND J. G. P. STELL 97
 EISENBERG, M. A. 327
 EMMELOT, P. 668
 — AND P. J. BROMBACHER 435
 ENGEL, L. L., see SCOTT, J. F.
 ENGSTRÖM, A., see FERNÁNDEZ-MORÁN, H.
 —, see FINEAN, J. B.
 FALKENHEIM, R., see KOSZALKA, T. R.
 FASELLA, P., H. LIS, N. SILIPRANDI AND
 C. BAGLIONI 417
 FERNÁNDEZ-MORÁN, H. AND A. ENGSTRÖM 260
 FERRY, J. D. AND F. E. HELDERS 569
 FINEAN, J. B. AND A. ENGSTRÖM 202
 FLEISHER, J. H. 28
 FOX, J. J., N. YUNG AND I. WEMPEN . . 295
 FRANKLIN, R. E., see KLUG, A.
 FRIEDEN, C. AND S. F. VELICK 439
 FRIEDMAN, O. M. 215
 FROMAGEOT, P., F. CHAPEVILLE ET L. PETIT 12
 FULLER, R. C., see GRISEBACH, H.
 GAMBLE, JR., J. J. 306
 GARTON, G. A. AND A. K. LOUGH 192
 GEHRMANN, G. AND S. OKADA 621
 GERGELY, J., see VARGA, L.
 GHIRETTI-MAGALDI, A., see BOERI, E.
 GIBSON, D. M., M. I. JACOB, J. W. PORTER,
 A. TIETZ AND S. J. WAKIL 219
 GLASER, L. AND D. H. BROWN 449
 GOTTSCHALK, A. 645
 GREEN, D. E., R. L. LESTER AND D. M.
 ZIEGLER 516
 GREENBERG, D. M., see ADAMSON, L. F.
 GRISEBACH, H., R. C. FULLER AND M.
 CALVIN 34
 HAGGIS, G. H. 494
 HAMILTON, H. B., S. OKADA AND M.
 MORRISON 540
 HANDSCHUMACHER, R. E. 428
 HANSEN, I. A., see NOSSAL, P. M.
 HANSON, J. AND H. E. HUXLEY 250
 —, see HUXLEY, H. E.
 HARPER, E. M., see SMITH, E. E. B.
 HARRIS, E. J. 80
 HAUGAARD, N., see MARSH, J. B.
 HAWKINS, J. D. AND E. D. WILLS 210
 HELDERS, F. E., see FERRY, J. D.
 HERNANDEZ, M. G., see KUN, E.
 HERRIOTT, R. M., see VAN VUNAKIS, H.
 HEYMAN, T., see SÖRBO, B.
 HÜBSCHER, G., H. BAUM AND H. R.
 MAHLER 43
 HUXLEY, H. E. AND J. HANSON 229
 —, see HANSON, J.

- JACOB, M. I., see GIBSON, D. M.
 JAMES, T. W., see LEVEDAHL, B. H.
 JANG, R., see LOEWUS, F. A.
 JANSSEN, M. J., see KAARS SIJPESTEYN, A.
 JEENER, R. 351
 —, see VAN RYSELBERGE, C.
 JEFFREE, G. M. 155
 JOHNSON, P. AND V. MASSEY 544
 JOHNSTONE, R. M. AND J. H. QUASTEL 88, 372
 JUTISZ, M., M. KAMINSKI ET J. LEGAULT-
 DÉMARE. 173
 KAARS SIJPESTEYN, A., M. J. JANSSEN AND
 G. J. M. VAN DER KERK. 550
 KAČANSKI, K., see KANAZIR, D.
 KALNITSKY, G., see ROGERS, W. I.
 KAMINSKI, M., see JUTISZ, M.
 KANAZIR, D., K. KAČANSKI AND B.
 KRAJINČANIĆ 224
 KAPLAN, N. O., see VAN EYS, J.
 KAUFMAN, S. 445
 KIELLEY, R. K. 447
 KIELLEY, W. W. AND J. R. BRONK 448
 KLEIBER, M., see BLACK, A. L.
 KLEINZELLER, A., see CORT, J. H.
 KLEMPERER, H. G. 404
 KLENOW, H. AND B. ANDERSEN 92
 — AND E. LICHTLER. 6
 KLUG, A. AND R. E. FRANKLIN 199
 KONING, J., see THOMAS, J. B.
 KOSZALKA, T. R., R. FALKENHEIM AND
 K. I. ALTMAN 647
 KRAJINČANIĆ, B., see KANAZIR, D.
 KUN, E. AND M. G. HERNANDEZ. 181
 LADD, J. N., see NOSSAL, P. M.
 LANDMAN, O. E. 558
 LEDERER, E., see BLOCH, H.
 LEDOUX, L. 121
 LEGAULT-DÉMARE, J., see JUTISZ, M.
 LESTER, R. L., see GREEN, D. E.
 LEVEDAHL, B. H. AND T. W. JAMES 442
 LEVINthal, C. AND C. A. THOMAS, Jr. . . 453
 LICHTLER, E., see KLENOW, H.
 LIS, H., see FASELLA, P.
 LOEWUS, F. A. AND R. JANG 205
 LOUGH, A. K., see GARTON, G. A.
 LOVE, W. E. 465
 MAHLER, H. R., see HÜBSCHER, G.
 MANDEL, H. G., J. L. WAY AND P. K. SMITH 402
 MARCHIS-MOUREN, G., see SARDA, L.
 MARSH, J. B. AND N. HAUGAARD 204
 MARTINSSON, A., A. RAAL AND L. SVENNER-
 HOLM 652
 MASSEY, V., see JOHNSON, P.
 MAYAUDON, J., A. A. BENSON AND M.
 CALVIN 342
 MEDINA, A. AND D. J. D. NICHOLAS 440
 MEISTER, A. AND S. D. BUCKLEY 202
 MICHAEL, P. J., see TOMKINS, G. M.
 MILL, P. J. 437
 — AND W. R. C. CRIMMIN 432
 MILLER, S. L. 480
 MILLS, G. T., see SMITH, E. E. B.
 MORRISON, M., see HAMILTON, H. B.
 MUNRO, H. N., see CLARK, C. M.
 NAISMITH, D. J., see CLARK, C. M.
 NARURKAR, M. V. AND M. B. SAHASRABUDHE 367
 NASON, A., see TAKAHASHI, H.
 NICHOLAS, D. J. D., see MEDINA, A.
 NOLL, H., see BLOCH, H.
 NOSSAL, P. M., I. A. HANSEN AND J. N.
 LADD 103
 OKADA, S., see GEHRMANN, G.
 —, see HAMILTON, H. B.
 OTTOLENGHI, A., see BERNHEIM, M. L. C.
 PAIGEN, K., see PARDEE, A. B.
 PARDEE, A. B., K. PAIGEN AND L. S.
 PRESTIDGE 162
 PARKS, L. W. AND H. C. DOUGLAS. 207
 PETIT, L., see FROMAGEOT, P.
 PHELPS, R. A. AND J. R. CANN 149
 PINCHOT, G. B. 660
 POILROUX, M., see ROVERY, M.
 POLLARD, C. J., see BIERI, J. G.
 PORTER, J. W., see GIBSON, D. M.
 PRANGE, I., see COWLISHAW, B.
 PRESTIDGE, L. S., see PARDEE, A. B.
 QUASTEL, J. H., see JOHNSTONE, R. M.
 RAAL, A., see MARTINSSON, A.
 RABINOWITZ, J. L. AND T. SALL 289
 RAMACHANDRAN, L. K. AND T. WINNICK
 REDDI, K. K. 208
 REID, M. E., see BIERI, J. G.
 ROGERS, W. I. AND G. KALNITSKY. 525
 ROSE, G., see SHAPIRO, B.
 ROVERY, M., M. POILROUX, A. YOSHIDA ET
 P. DESNUELLE 608
 SAHASRABUDHE, M. B.,
 see NARURKAR, M. V.
 SALL, T., see RABINOWITZ, J. L.
 SARDA, L., G. MARCHIS-MOUREN, J. M.
 CONSTANTIN ET P. DESNUELLE 264
 SCHACHMAN, H. K., see SCHUMAKER, V. N.
 SCHERAGA, H. A. 196
 SCHMIDT, G., M. J. BESSMAN AND S. J.
 THANNHAUSER 127
 SCHUMAKER, V. N. AND H. K. SCHACHMAN 628
 SCOTT, J. F. AND L. L. ENGEL 665
 SHAPIRO, B., I. CHOWERS AND G. ROSE. . . 115
 SHAPIRO, H. S. AND E. CHARGAFF 451
 SHUGAR, D. AND J. BARANOWSKA 227
 — AND K. WIERZCHOWSKI 657
 SILIPRANDI, N., see FASELLA, P.
 SKOU, J. C. 394
 SLATER, E. C., see COLPA-BOONSTRA, J. P.
 SMITH, A. H., see BLACK, A. L.
 SMITH, E. E. B., G. T. MILLS AND E. M.
 HARPER. 662
 SMITH, P. K., see MANDEL, H. G.
 SMITHIES, O., see DIXON, G. H.
 SOLOMON, B. 211
 SOLOMON, J. B. 24
 SÖRBO, B. 412
 — AND T. HEYMAN 624
 SPANDRIO, L., see CERIOTTI, G.
 SPIZIZEN, J. 333
 STELL, J. G. P., see EARLAND, C.
 STEWART, D. N., see BLACK, A. L.
 STOLZENBACH, F. E., see VAN EYS, J.

- STRAUB, F. B. AND A. ULLMANN. 665
 SVENNERHOLM, L., see MARTINSSON, A.
 SWOBODA, P. A. T. 70
 TAKAHASHI, H. AND A. NASON 433
 THANNHAUSER, S. J., see SCHMIDT, G.
 THOMAS, JR., C. A., see LEVINTHAL, C.
 THOMAS, J. B., A. A. J. VAN DER LEUN AND
 J. KONING. 443
 TIBBS, J. 275
 TIEDEMANN, H. 385
 TIETZ, A., see GIBSON, D. M.
 TOMKINS, G. M., P. J. MICHAEL AND J. F.
 CURRAN. 655
 TWEDT, R. M., see VON KORFF, R. W.
 ULLMANN, A., see STRAUB, F. B.
 VAN DER KERK, G. J. M.,
 see KAARS SIJPESTEYN, A.
 VAN DER LEUN, A. A. J., see THOMAS, J. B.
 VAN EYS, J., M. M. CIOTTI AND N. O.
 KAPLAN. 581
 — AND N. O. KAPLAN. 574
- VAN EYS, J., N. O. KAPLAN AND F. E.
 STOLZENBACH 221
 VAN RYSELBERGE, C. AND R. JEENER . . 18
 VAN VUNAKIS, H. AND R. M. HERRIOTT . 600
 VARGA, L. AND J. GERGELY. 1
 VELICK, S. F., see FRIEDEN, C.
 VON KORFF, R. W. AND R. M. TWEDT . . 143
 WAKIL, S. J., see GIBSON, D. M.
 WAY, J. L., see MANDEL, H. G.
 WEMPEN, I., see FOX, J. J.
 WIERZCHOWSKI, K., see SHUGAR, D.
 WIGHT, K. M. 139
 WILLS, E. D., see HAWKINS, J. D.
 WINNICK, R. E., see WINNICK, T.
 WINNICK, T. AND R. E. WINNICK . . . 649
 —, see RAMACHANDRAN, L. K.
 WOLFE, M. 186
 YOSHIDA, A., see ROVERY, M.
 YUNG, N., see FOX, J. J.
 ZIEGLER, D. M., see GREEN, D. E.
 ZUBAY, G. AND P. DOTY 213

SUBJECT INDEX

- Acetate, activating mechanism in *Rhodo-*
spirillum rubrum. 327
 —, precursor of amino acids of casein,
 intact dairy cow 54
 —, tricarboxylic acid cycle as pathway
 for transfer of carbon from — to
 amino acids, intact cow 59
Acetobacter xylinum, growth of cellulose
 microfibrils 652
 N-Acetylsialic acid, isolation from normal
 liver 652
 Adenine desoxyriboside polyphosphates,
 enzymic formation and isolation . . 6
 —, some enzyme reactions with — . . 92
 Adenosine triphosphatase, activity of in-
 tact muscle cells 204
 —, activity of rat liver mitochondria . . 404
 —, from peripheral nerves, influence of
 some cations on — 394
 Adenosine triphosphate, and related com-
 pounds, correction of rotary dis-
 persation characteristics of — . . 442
 Adipose tissue, fatty acid uptake and
 esterification. 115
 Albumin, bovine serum —, complex for-
 mation between — and sodium
 desoxyribonucleate induced by heat 213
 Alcohol dehydrogenase, yeast, effect of
 pyridine derivatives on reaction of
 — 574
 —, —, properties of catalytically
 active site 581
 Aldopentose, new colour reaction for
 determination in presence of other
 saccharides 639
- Algae, metabolism of thioctic acid . . . 34
 L-Amino acid oxidase, imino acid as inter-
 mediate in reaction 439
 Amino acids, composition of DNase I . . 621
 —, convenient method for esterification 432
 —, *in vitro* inhibition of catalase. . . . 362
 —, of casein in intact dairy cow, acetate
 as precursor 54
 —, pepsinogen, N-terminal residues and
 composition 600
 —, quantitative determination by paper
 chromatography, solvent to replace
 phenol 181
 —, synthesis by electric discharges,
 mechanism 480
 —, thiol —, new method of isolation
 via electrolytic reduction of mercap-
 tides 658
 —, tricarboxylic acid cycle as pathway
 for transfer of carbon from acetate
 to —, intact cow 59
 4-Amino-5-imidazolecarboxamide, effect
 on incorporation of purines into liver
 nucleic acids of mouse. 402
 Amylase, synthesis, mechanism 665
 Anserine, biosynthesis *in vitro*. 649
 Apatite crystallites, bone 202
 Ascorbic acid, formation in plants, further
 studies 205
 Autoradiography, molecular —, β -ray
 counting from single virus particles
 and DNA molecules in nuclear emul-
 sions 453
 6-Azauracil, and its riboside, studies of
 bacterial resistance to — 428