

INDEX

A

- Acetylcholine, molecular orbital calculation of preferred conformations of (KIER), 487
- Acetylcholinesterase, structural specificity of substrates of (THOMAS AND ROUFOGALIS), 103
inhibition by diethylphosphoryl aminophenols (KITZ *et al.*), 225
- N-Acetyltransferase, rabbit liver (WEBER AND COHEN), 266
- Acridine orange, binding with DNA, spectrophotometric study of (YAMABE), 556
complex between DNA, assay methods (RIVA *et al.*), 327
- Actinomycin D, degradation of RNA in rat liver treated with (SCHWARTZ AND GAROFALO), 1
- ADAMIČ, Š., AND BIHLER, I. Inhibition of intestinal sugar transport by phenolphthalein, 188
- Amobarbital, orotate uptake inhibition by (MANDEL *et al.*), 537
- Anesthetics, local, interaction with lecithin monolayers (HERSH), 581
- Anhydrase, carbonic, chloride effect of inhibitors of (HOGBEN), 318
inhibition in *Neisseria* (SANDERS AND MAREN), 204
of dog kidney and erythrocytes (BYVOET AND GOTTI), 142
renal (MAREN AND ELLISON), 503
- ARIAS, IRWIN M., AND DE LEON, ANTONIO. Estimation of the turnover rate of barbiturate side-chain oxidation enzyme in rat liver, 216
- ARONOW, LEWIS. *See* PRATT, WILLIAM B. *et al.*, 219
- ATP, effect on optical density of chromaffin granules (TRIFARÓ AND POISNER), 572
- Azaserine, inhibition of thymine nucleotide synthesis by (SARTORELLI AND BOOTH), 71

B

- 3,4-Benzpyrene, enzymic hydroxylation of (SILVERMAN AND TALALAY), 90
- BIHLER, I. *See* ADAMIČ, Š, 188
- BLAKE, R. L., BLAKE, S. L., LOH, H. H., AND KUN, ERNEST. The effect of nicotinamide and homologs on the activity of inducible enzymes and NAD content of the rat liver, 412
- BLAKE, S. L. *See* BLAKE, R. L. *et al.*, 412
- BOOTH, BARBARA A. *See* SARTORELLI, ALAN C., 71
- BOOTH, BARBARA A., AND SARTORELLI, ALAN C. Metabolic effects of copper in intact cells: Comparative activity of cupric chloride and the cupric chelate of kethoxal bis(thiosemicarbazone), 290
- BOREK, ERNEST. *See* WAINFAN, ELSIE, 595
- BRANDA, LUIS A., HRUBY, VICTOR J., AND DU VIGNEAUD, VINCENT. 2-Isoleucine-oxytocin and

- deamino-2-isoleucine-oxytocin: Their synthesis and some of their pharmacologic activities, 248
- BRESSLER, R. *See* ENTMAN, M., 333
- BRUCHOVSKY, N., AND TILL, J. E. Effects of β -phenethyl alcohol on mouse L cells in suspension culture. I. Reversible inhibition of cell proliferation and effects on the uptake of labeled precursors of nucleic acid and protein, 124; II. Effects on the cell division cycle, 133
- BYVOET, PAUL. Metabolic integrity of deoxyribonucleohistones during enzyme induction, 303
- BYVOET, PAUL, AND GOTTI, ALJA. Isolation and properties of carbonic anhydrase from dog kidney and erythrocytes, 142

C

- CARTER, C. E. *See* NELSON, D. J., 341
- Catecholamines, release by ATP (POISNER AND TRIFARÓ), 561
- CHANG, PAULINE K. *See* ZEDECK, MORRIS S. *et al.*, 386
- 6-Chloro-8-aza-9-cyclopentylpurine, inhibition of Δ^4 -3-ketosteroid isomerase in *Pseudomonas testosteroni* by (ZEDECK *et al.*), 386
- p-Chlorophenylalanine, inhibition of rat brain serotonin (JÉQUIER *et al.*), 274
- Chlortetracycline, effect on *Bacillus megaterium* polyribosomes (CUNDLIFFE), 401
- COHEN, SANFORD N. *See* WEBER, WENDELL W., 266
- CONNAMACHER, ROBERT H., MANDEL, H. GEORGE, AND HAHN, FRED E. Adaptations of populations of *Bacillus cereus* to tetracycline, 586
- Cortisol, effect on rat thymus cells (PRATT *et al.*), 219
effect on rat thymus RNA polymerase system (FOX AND GABOUREL), 479
- CUNDLIFFE, ERIC. Antibiotics and polyribosomes. Chlortetracycline and polyribosomes of *Bacillus megaterium*, 401
- Cupric chloride, metabolic effect in cells (BOOTH AND SARTORELLI), 290
- Cytochrome P-450, spectral studies of drug interaction with (SCHENKMAN *et al.*), 113

D

- Deamino-2-isoleucine-oxytocin, synthesis (BRANDA *et al.*), 248
- DE LEON, ANTONIO. *See* ARIAS, IRWIN M., 216
- Deoxyribonucleohistones, metabolic integrity during enzyme induction (BYVOET), 303
- α -2'-Deoxythioguanosine, utilization by murine tumor cells (LE PAGE AND JUNGA), 37
- Diethylstilbestrol, inhibition of thymidine-5'-monophosphokinase from leukemia cells (NELSON AND CARTER), 341

- N,N*-Dimethylaniline-*N*-oxide, reactions with hemoglobin (KIESE), 9
- Dipyridamole, effect on heart muscle mitochondria (SORDAHL AND SCHWARTZ), 509
- DNA, binding with acridine orange, spectrophotometric study of (YAMABE), 566
complex between acridine-orange, assay methods (RIVA *et al.*), 327
- Dopamine- β -hydroxylase, bovine adrenal medulla, antibodies to (GIBB *et al.*), 473
- DU VIGNEAUD, VINCENT. See BRANDA, LUIS A. *et al.*, 248
- E**
- EDELMAN, STEVEN. See PRATT, WILLIAM B. *et al.*, 219
- ELLISON, ARTHUR C. See MAREN, THOMAS H., 503
- ENTMAN, M., AND BRESSLER, R. The mechanism of action of hypoglycin on long-chain fatty acid oxidation, 333
- Epinephrine, effect on amino acid transport *in vivo* (SANDERS AND RIGGS), 352
- ESTABROOK, RONALD W. See SCHENKMAN, JOHN B. *et al.*, 113, 516
- 17-Ethynyl- β -estradiol, inhibition of thymidine-5'-monophosphokinase from leukemia cells (NELSON AND CARTER), 341
- F**
- FELSENFELD, H., AND HANDSCHUMACHER, R. E. The interaction between lysosome and penicillin, 153
- Folic acid, and analogs, molecular orbital calculations on (NEELY), 108
- FORMBY, BENT. The binding of noradrenaline to phosphatidylserine. *In vitro* studies of an artificial model system of biological origin, 284
- 2-Formyl *N*-methyl pyridinium (cation) oxime, conformers, quantum mechanical calculation of stability of (GIORDANO *et al.*), 307
- FOX, K. E., AND GABOUREL, J. D. Effect of cortisol on the RNA polymerase system of rat thymus, 479
- FRASER, J. M., PETERS, M. A., AND HARDINGE, M. G. Purification and some characteristics of an α,β -unsaturated ketone reductase from dog erythrocytes and human liver, 233
- FREY, INGBERG. See SCHENKMAN JOHN, B. *et al.*, 516
- FROESCH, E. R., WALDVOGEL, M., MEYER, U. A., JAKOB, A., AND LABHART, A. Effects of 5-methylpyrazole-3-carboxylic acid on adipose tissue. I. Inhibition of lipolysis, effects on glucose, fructose, and glycogen metabolism *in vitro* and comparison with insulin, 429; II. Antilipolytic and hypoglycemic effects *in vivo*, 442
- G**
- GABOUREL, J. D. See FOX, K. E., 479
- GAROFALO, M. See SCHWARTZ, HERBERT S., 1
- GIBB, JAMES W., SPECTOR, SIDNEY, AND UDEN-FRIEND, SIDNEY. Production of antibodies to dopamine- β -hydroxylase of bovine adrenal medulla, 473
- GINSBURG, SARA. See KITZ, RICHARD J. *et al.*, 225
- GIORDANO, WALLY, HAMANN, JON R., HARKINS, JEROME J., AND KAUFMAN, JOYCE J. Quantum mechanical calculation of stability in 2-formyl *N*-methyl pyridinium (cation) oxime (2-PAM⁺) Conformers, 307
- α -Glycerophosphate dehydrogenase, liver mitochondrial, synthesis in thyroidectomized rat (LEE AND MILLER), 44
- GOLDSTEIN, MENEK, AND JOH, TONG HYUB. The effect of reduced and oxidized pteridine on dopamine- β -hydroxylase activity, 396
- GORDON, ROBERT. See SPECTOR, SIDNEY *et al.*, 549
- GÖRÖG, P., AND KOVÁCS, I. B. Effects of vitamins K₁ and K₃ on adenosine nucleotide content of rat tissues, 495
- GOTTI, AIJA, See BYVOET, PAUL, 142
- GREENE, RICHARD, AND MAGASANIK, BORIS. The mode of action of levallorphan as an inhibitor of cell growth, 453
- H**
- HAHN, FRED E. See CONNAMACHER, ROBERT H. *et al.*, 586
- HAKALA, MAIRE T. See RAUNIO, RAIMO P., 279
- 2-Halogenoethylamines, noradrenaline α -receptor labeling by (MORAN *et al.*), 15
- HAMANN, JON R. See GIORDANO, WALLY *et al.*, 303
- HANDSCHUMACHER, R. E. See FELSENFELD, H., 157
- HARDINGE, M. G. See FRASER, I. M. *et al.*, 233
- HARKINS, JEROME J. See GIORDANO, WALLY *et al.*, 307
- Hemoglobins, from methemoglobin, oxygen and sulfide binding characteristics of (SMITH), 378
- HERSH, LEROY. The interaction of local anesthetics with lecithin monolayers, 581
- Hexobarbital, hepatic side-chain oxidation of (ARIAS AND DE LEON), 216
- HILL, L. R. See RIVA, SILVANO C. *et al.*, 327
- HOGBEN, C. ADRIAN. The chloride effect of carbonic anhydrase inhibitors, 318
- HRUBY, VICTOR J. See BRANDA, LUIS A. *et al.*, 248
- Hypoglycin, action on long-chain fatty acid oxidation (ENTMAN AND BRESSLER), 333
- I**
- Insulin, effect on glucose and acetate metabolism by epididymal fat pads (WATERBURY AND JAFFE), 63
- 2-Isoleucine-oxytocin, synthesis (BRANDA *et al.*), 248
- J**
- JAFFE, J. J. See WATERBURY, L. D., 63
- JAFFE, JULIAN J., AND MCCORMACK, JOHN J., JR.

- Dihydrofolate reductase from *Trypanosoma equiperdum*. I. Isolation, partial purification, and properties, 359
- JAKOB, A. See FROESCH, E. R. *et al.*, 429, 442
- JÉQUIER, ERIC, LOVENBERG, WALTER, AND SJOERDSMA, ALBERT. Tryptophan hydroxylase inhibition: The mechanism by which *p*-chlorophenylalanine depletes rat brain serotonin, 274
- JOFFE, SEYMOUR. A nuclear magnetic resonance study of hapten-antibody interaction, 399
- JOH, TONG HYUB. See GOLDSTEIN, MENEK, 396
- JOHNSON, J. M., AND RUDDON, R. W. Interaction of nitrogen mustard with polyribonucleotides, ribosomes, and enzymes involved in protein synthesis in a cell-free system, 195
- JUNGA, I. G. See LE PAGE, G. A., 37
- K
- KAUFMAN, JOYCE J. See GIORDANO, WALLY *et al.*, 307
- Kethoxal-bis(thiosemicarbazone), cupric chelate of, metabolic effect in cells (BOOTH AND SARTORELLI), 290
- Ketone, α,β -unsaturated, reductase from dog erythrocytes and human liver (FRASER *et al.*), 233
- KIER, LEMONT B. Molecular orbital calculation of preferred conformations of acetylcholine, muscarine, and muscarone, 487
- KIESE, MANFRED. Reactions of *N,N*-dimethylaniline-*N*-oxide with hemoglobin, 9
- KIMELBERG, H. See MORAN, J. F. *et al.*, 15; MAY, M. *et al.*, 28
- KIRSHNER, N. See SMITH, W. JAMES, 52; SAGE, HARVEY J. *et al.*, 81
- KIRSHNER, N., SAGE, H. J., AND SMITH, W. J. Mechanism of secretion from the adrenal medulla. II. Release of catecholamines and storage vesicle protein in response to chemical stimulation, 254
- KITZ, RICHARD J., GINSBURG, SARA, AND WILSON, IRWIN B. The reaction of acetylcholinesterase with diethylphosphoryl esters of quaternary and tertiary aminophenols, 225
- KOVÁCS, I. B. See GÖRÖG, P., 495
- KRENITSKY, THOMAS A. Purine nucleoside phosphorylase: Kinetics, mechanism, and specificity, 526
- KUN, ERNEST. See BLAKE, R. L. *et al.*, 412
- KUN, ERNEST, VOLFIN, PIERRE, AND LOH, HORACE G. Studies with specific enzyme inhibitors. XI. Identification of tissue-specific metabolic organization of mitochondria by monofluorocitrate, 497
- L
- LABHART, A. See FROESCH, E. R. *et al.*, 429, 442
- LEE, KAI-LIN, AND MILLER, O. NEAL. Studies on triiodothyronine-induced synthesis of liver mitochondrial α -glycerophosphate dehydrogenase in the thyroidectomized rat, 44
- LE PAGE, G. A., AND JUNGA, I. G. The utilization of α -2'-deoxythioguanosine by murine tumor cells, 37
- Levallorphan, inhibitory effect on cell growth (GREENE AND MAGASANIK), 453
- LOH, HORACE H. See KUN, ERNEST *et al.*, 497
- LOH, H. H. See BLAKE, R. L. *et al.*, 412
- LOVENBERG, WALTER. See JÉQUIER, ERIC *et al.*, 274
- Lysozyme, interaction with penicillin (FELSENFELD AND HANDSCHUMACHER), 153
- M
- MCCORMACK, JOHN J., JR. See JAFFE, JULIAN J., 359
- MAGASANIK, BORIS. See GREENE, RICHARD, 453
- MAK, S. See BRUCHOVSKY, N. *et al.*, 133
- MANDEL, H. GEORGE. See CONNAMACHER, ROBERT H. *et al.*, 586
- MANDEL, H. GEORGE, OLIVER, HEDWIG M., AND RIIS, MARGIT. Interference of barbituates with pyrimidine incorporation. I. Amobarbital inhibition of orotate uptake into *Bacillus cereus*, 537
- MANSOUR, TAG E. See STONE, DEBORAH BENNETT, 161, 177
- MAREN, THOMAS H. See SANDERS, EUGENE, 204
- MAREN, THOMAS H., AND ELLISON, ARTHUR C. A study of renal carbonic anhydrase, 503
- MAY, M. See MORAN, J. F. *et al.*, 15
- MAY, M., MORAN, J. F., KIMELBERG, H., AND TRIGGLE, D. J. Studies on the noradrenaline α -receptor. II. Analysis of the "spare-receptor" hypothesis and estimation of the concentration of α -receptors in rabbit aorta, 28
- Medulla, adrenal, assay for catecholamine storage vesicle protein of (SAGE *et al.*), 81
- purification of protein from catecholamine storage vesicles of (SMITH AND KIRSHNER), 52
- release of catecholamines and protein (KIRSHNER *et al.*), 254
- Metabolism, drug, sex differences in (SCHENKMAN *et al.*), 516
- Methylases, tRNA, differential inhibitors of (WAINFAN AND BOREK), 595
- Methylglyoxal-bis(guanylhydrazone), effect on glucose and acetate metabolism by epididymal fat pads (WATERBURY AND JAFFE), 63
- 5-Methylpyrazole-3-carboxylic acid, action on adipose tissue *in vitro* (FROESCH *et al.*), 429; antilipolytic and blood sugar-lowering properties (FROESCH *et al.*), 442
- MEYER, V. A. See FROESCH, E. R. *et al.*, 429, 442
- MILLER, O. NEAL. See LEE, KAI-LIN, 44
- Monofluorocitrate, use in identification of tissue-specific metabolic organization of mitochondria (KUN *et al.*), 497
- MORAN, J. F., MAY, M., KIMELBERG, H., AND

- TRIGGLE, D. J. Studies on the noradrenaline α -receptor. I. Techniques of receptor isolation. The distribution and specificity of action of *N*-(2-bromoethyl)-*N*-ethyl-1-naphthylmethylamine, a competitive antagonist of noradrenaline, 15 (See M. MAY *et al.* for Part II)
- Muscarine, molecular orbital calculation of preferred conformations of (KIER), 487
- Muscarone, molecular orbital calculation of preferred conformations of (KIER), 487
- N**
- NEELEY, W. BROCK. Molecular orbital calculations on folic acid and folic acid analogs, 108
- NELSON, D. J., AND CARTER, C. E. Inhibition of thymidine-5'-monophosphokinase from L5178Y mouse leukemia by diethylstilbestrol and 17-ethynyl- β -estradiol, 341
- Nicotinamide, effect on inducible enzymes and NAD content of rat liver (BLAKE *et al.*), 412
- Nitrogen mustard, interaction with polyribonucleotides, ribosomes, and enzymes involved in protein synthesis (JOHNSON AND RUDDON), 195
- p*-Nitrophenyl- β -D-galactoside, interaction with antibody, NMR study of (JOFFE), 399
- Noradrenaline, adrenergic α -receptors (MAY *et al.*), 28
- binding to phosphatidylserine (FORMBY), 284
- Norepinephrine, feedback inhibition of synthesis of (SPECTOR *et al.*), 549
- O**
- OLIVER, HEDWIG M. See MANDEL, GEORGE H. *et al.*, 537
- P**
- Penicillin, interaction with lysozyme (FELSENFELD AND HANDSCHUMACHER), 153
- PETERS, M. A. See FRASER, I. M. *et al.*, 233
- β -Phenethyl alcohol, effect on reversible inhibition of mouse L cell proliferation and uptake of nucleic acid and protein precursors (BRUCHOVSKY AND TILL), 124; effect on mouse L cell division (BRUCHOVSKY *et al.*), 133
- Phenformin, effect on glucose and acetate metabolism by epididymal fat pads (WATERBURY AND JAFFE), 63
- Phenolphthalein, inhibition of intestinal sugar transport by (ADAMIČ AND BIHLER), 188
- Phosphofructokinase, *Fasciola hepatica*, activation by adenosine 3',5'-phosphate and serotonin (STONE AND MANSOUR), 161; kinetic properties (STONE AND MANSOUR), 177
- POISNER, A. M. See TRIFARÓ, J. M., 572
- POISNER, A. M., AND TRIFARÓ, J. M. The role of ATP and ATPase in the release of catecholamines from the adrenal medulla. I. ATP-
Evoked release of catecholamines, ATP, and protein from isolated chromaffin granules, 561
- PRATT, WILLIAM B., EDELMAN, STEVEN, AND ARONOW, LEWIS. The effect of cortisol, administered *in vivo*, on the *in vitro* incorporation of DNA and RNA precursors by rat thymus cells, 219
- Purine nucleoside phosphorylase (KRENITSKY), 526
- R**
- RAŠKA, KAREL, JR. See ZEDECK, MORRIS S. *et al.*, 386
- RAUNIO, RAIMO P., AND HAKALA, MAIRE T. Comparison of folate reductases of Sarcoma 180 cells, sensitive and resistant to amethopterin, 279
- Reductase, dihydrofolate, from *Trypanosoma equiperdum* (JAFFE AND McCORMACK, JR.), 359
- folate, of Sarcoma 180 cells sensitive and resistant to amethopterin (RAUNIO AND HAKALA), 279
- REMMER, HERBERT. See SCHENKMAN, JOHN B. *et al.*, 113, 516
- RIGGS, THOMAS R. See SANDERS, ROBERT B., 352
- RIIS, MARGIT. See MANDEL, GEORGE H. *et al.*, 537
- RIVA, SILVANO C., SILVESTRI, L. G., AND HILL, L. R. Methods for assaying complexes between acridine orange and deoxyribonucleic acid, 327
- RNA, degradation in rat liver treated with actinomycin D (SCHWARTZ AND GAROFALO), 1
- ROBINS, ROLAND K. See ZEDECK, MORRIS S. *et al.*, 386
- ROUFOGALIS, B. D. See THOMAS, J., 103
- RUDDON, R. W. See JOHNSON, J. M., 195
- S**
- SAGE, H. J. See KIRSHNER, N. *et al.*, 254
- SAGE, H. J., SMITH, W. J., AND KIRSHNER, N. Mechanism of secretion from the adrenal medulla. I. A microquantitative immunologic assay for bovine adrenal catecholamine storage vesicle protein and its application to studies of the secretory process, 81
- SANDERS, EUGENE, AND MAREN, THOMAS H. Inhibition of carbonic anhydrase in *Neisseria*: Effects of enzyme activity and growth, 204
- SANDERS, ROBERT B., AND RIGGS, THOMAS R. Effects of epinephrine on the distribution of two model amino acids in the rat, 352
- SARTORELLI, ALAN C. See BOOTH, BARBARA A., 290; ZEDECK, MORRIS S. *et al.*, 386
- SARTORELLI, ALAN C., AND BOOTH, BARBARA A. Inhibition of the synthesis of thymine nucleotides by azaserine, 71
- SCHENKMAN, JOHN B., FREY, INGEBORG, REMMER, HERBERT, AND ESTABROOK, RONALD W. Sex differences in drug metabolism by rat liver microsomes, 516
- SCHENKMAN, JOHN B., REMMER, HERBERT, AND ESTABROOK, RONALD W. Spectral studies of

- drug interaction with hepatic microsomal cytochrome, 113
- SCHWARTZ, ARNOLD. *See* SORDAHL, LOUIS A., 509
- SCHWARTZ, HERBERT S., AND GAROFALO, M. Degradation of RNA in liver of rats treated with actinomycin D, 1
- SILVERMAN, DONALD A., AND TALALAY, PAUL. Studies on the enzymic hydroxylation of 3,4-benzpyrene, 90
- SILVESTRI, L. G. *See* RIVA, SILVANO C. *et al.*, 327
- SJOERDSMA, ALBERT. *See* JÉQUIER, ERIC *et al.*, 274; SPECTOR, SIDNEY *et al.*, 549
- SLAVIK, KAREL, AND ZAKRZEWSKI, SIGMUND F. Inhibition of thymidylate synthetase by some analogs of tetrahydrofolic acid, 370
- SMITH ROGER P. The oxygen and sulfide binding characteristics of hemoglobins generated from methemoglobin by two erythrocytic systems, 378
- SMITH, W. J. *See* SAGE, HARVEY J. *et al.*, 81; KIRSHNER, N. *et al.*, 254
- SMITH, W. J., AND KIRSHNER, NORMAN. A specific soluble protein from the catecholamine storage vesicles of bovine adrenal medulla. I. Purification and chemical characterization, 52
- SORDAHL, LOUIS A., AND SCHWARTZ, ARNOLD. Effects of dipyrindamole on heart muscle mitochondria, 509
- SPECTOR, SYDNEY. *See* GIBB, JAMES W. *et al.*, 473
- SPECTOR, SYDNEY, GORDON, ROBERT, SJOERDSMA, ALBERT, AND UDENFRIEND, SIDNEY. End-product inhibition of tyrosine hydroxylase as a possible mechanism for regulation of norepinephrine synthesis, 549
- STONE, DEBORAH BENNETT, AND MANSOUR, TAG E. Phosphofructokinase from the liver fluke *Fasciola hepatica*. I. Activation by adenosine 3',5'-phosphate and by serotonin, 161; II. Kinetic properties of the enzyme, 177
- Sulfhydryl groups, effect on estrogen uptake by mouse uterus (TERENIUS), 423
- Synthetase, thymidylate, inhibition by tetrahydrofolic acid analogs (SLAVIK AND ZAKRZEWSKI), 370
- T
- TALALAY, PAUL. *See* SILVERMAN, DONALD A., 90
- TERENIUS, LARS. SH-Groups essential for estrogen uptake and retention in the mouse uterus, 423
- Tetracycline, adaptation of *Bacillus cereus* to (CONNAMACHER *et al.*), 586
- Tetrahydropteridine, reduced and oxidized, effect on dopamine- β -hydroxylase activity (GOLDSTEIN AND JOH), 396
- THOMAS, J., AND ROUFOGALIS, B. D. Structural specificity of substrates of acetylcholinesterase, 103
- TILL, J. E. *See* BRUCHOVSKY, N., 124; and BRUCHOVSKY *et al.*, 133
- TRIGGLE, D. J. *See* MORAN, J. F. *et al.*, 15; MAY, M. *et al.*, 28
- TRIFARÓ, J. M. *See* POISNER, A. M., 561
- TRIFARÓ, J. M., AND POISNER, A. M. The role of ATP and ATPase in the release of catecholamines from the adrenal medulla. II. ATP-Evoked fall in optical density of isolated chromaffin granules, 572
- U
- UDENFRIEND, SIDNEY. *See* GIBB, JAMES W., 473; SPECTOR, SIDNEY *et al.*, 549
- V
- VITAMIN K₁, effect on rat tissue adenosine nucleotide content (GÖRÖG AND KOVÁCS), 495
- Vitamin K₂, effect on rat tissue adenosine nucleotide content (GÖRÖG AND KOVÁCS), 495
- VOLFIN, PIERRE. *See* KUN, ERNEST *et al.*, 497
- W
- WAINFAN, ELSIE, AND BOREK, ERNEST. Differential inhibitors of tRNA methylases, 595
- WALDVOGEL, M. *See* FROESCH, E. R. *et al.*, 429, 442
- WATERBURY, L. D., AND JAFFE, J. J. Comparative effects of methylglyoxal-bis(guanyldrazone), phenformin, and insulin upon the metabolism of glucose and acetate by rat epididymal fat pads *in vitro*, 63
- WEBER, WENDELL W., AND COHEN, SANFORD N. *N*-Acetylation of drugs: Isolation and properties of an *N*-acetyltransferase from rabbit liver, 266
- WELCH, ARNOLD D. *See* ZEDECK, MORRIS S. *et al.*, 386
- WILSON, IRWIN B. *See* KITZ, RICHARD J. *et al.*, 225
- Y
- YAMABE, SHIGERU. A spectrophotometric study on binding of acridine orange with DNA, 556
- Z
- ZAKRZEWSKI, SIGMUND F. *See* SLAVIK, KAREL, 370
- ZEDECK MORRIS S., SARTORELLI, ALAN C., CHANG, PAULINE K., RAŠKA, KAREL, JR., ROBINS, ROLAND K., AND WELCH, ARNOLD D. Inhibition of the steroid-induced synthesis of Δ^4 -3-ketosteroid isomerase in *Pseudomonas testosteroni* by a new purine deoxyribonucleoside analog: 6-chloro-8-aza-9-cyclopentylpurine, 386