

AUTHOR INDEX FOR VOLUME 23

A

- Abe, Tatsuya, and Watanabe, Minro. Purification and Characterization of Three Forms of Microsomal Cytochrome P-450 in Liver from 3-Methylcholanthrene-Treated Guinea Pigs, 258
- Abel, Peter W. See *Minneman and Fox*, 359
- Ackerman, Samuel. See *Noguchi, DiMaio, Schiller, and Schechter*, 100
- Albuquerque, E. X. See *Spivak, Waters, and Witkop*, 337
- Allen, D. L. See *Reith, Sershen, and Lajtha*, 600
- Arora, S. K. Correlation of Structure and Activity in Ansamycins: Molecular Structure of Sodium Rifamycin SV, 133

B

- Ballot, Bryan A. See *Mellion, Ignarro, Myers, Ohlstein, Hyman, and Kadowitz*, 653
- Balzarini, Jan, and De Clercq, Erik. Role of Deoxycytidine Kinase in the Inhibitory Activity of 5-Substituted 2'-Deoxycytidines and Cytosine Arabinosides on Tumor Cell Growth, 175
- Barnes, Peter J., Skoogh, Bengt-Eric, Nadel, Jay A., and Roberts, James M. Postsynaptic α_2 -Adrenoceptors Predominate over α_1 -Adrenoceptors in Canine Tracheal Smooth Muscle and Mediate Neuronal and Hormonal α -Adrenergic Contraction, 570
- Beerman, Terry A., Mueller, Gail, and Grimmond, Hyranne. Effects of Neocarzinostatin on Chromatin in HeLa S₃ Nuclei, 493
- Belt, Judith A., and Welch, Arnold D. Transport of Uridine and 6-Azaauridine in Human Lymphoblastoid Cells: Specificity for the Uncharged 6-Azaauridine Molecule, 153
- Benga, Gheorghe, Ionescu, Mihai, Popescu, Octavian, and Pop, Victor I. Effect of Chlorpromazine on Proteins in Human Erythrocyte Membranes as Inferred from Spin Labeling and Biochemical Analyses, 771
- Bessler, W. G. See *Jung, Hennings, and Pfeifer*, 698
- Betnér, Ingvar. See *Halpert and Näslund*, 445
- Birdsall, N. J. M. See *Stockton, Burgen, and Hulme*, 551
- Black, Kurt A., and Tephly, T. R. Effects of Nitrous Oxide and Methotrexate Administration on Hepatic Methionine Synthetase and Dihydrofolate Reductase Activities, Hepatic Foliates, and Formate Oxidation in Rats, 724
- Bockaert, Joël
See *Enjalbert*, 576
See *Sladeczek*, 282
- Boobis, Alan R., Murray, Stephen, Kahn, G. Clare, Robertz, Gerda-Marie, and Davies, Donald S. Substrate Specificity of the Form of Cytochrome P-450 Catalyzing the 4-Hydroxylation of Debrisoquine in Man, 474
- Brostrom, Charles O. See *Brostrom, Brotman, and Green*, 399
- Brostrom, Margaret A., Brostrom, Charles O., Brotman, Lori A., and Green, Susan S. Regulation of Ca^{2+} -Dependent Cyclic AMP Accumulation and Ca^{2+} Metabolism in Intact Pituitary Tumor Cells by Modulators of Prolactin Production, 399
- Brotman, Lori A. See *Brostrom, Brostrom, and Green*, 399
- Brown, G. B. See *Creveling, McNeal, and Daly*, 350
- Brown, R. Dale, and Taylor, Palmer. The Influence of Antibiotics on Agonist Occupation and Functional States of the Nicotinic Acetylcholine Receptor, 8
- Bullard, Wilson P., and Capson, Todd L. Steady-State Kinetics of Bovine Striatal Tyrosine Hydroxylase, 104
- Burch, Troie P., Thyagarajan, Rajee, and Ticku, Maharaj K. Group-Selective Reagent Modification of the Benzodiazepine- γ -Aminobutyric Acid Receptor-Ionophore Complex Reveals that Low-Affinity γ -Aminobutyric Acid Receptors Stimulate Benzodiazepine Binding, 52

- Burgen, A. S. V. See *Stockton, Birdsall, and Hulme*, 551
- Burstein, Sumner, Hunter, Sheila A., and Ozman, Kent. Prostaglandins and Cannabis. XII. The Effect of Cannabinoid Structure on the Synthesis of Prostaglandins by Human Lung Fibroblasts, 121

C

- Cabantchik, Z. Ioav, Kutner, Shirley, Krugliak, Miriam, and Ginsburg, Hagai. Anion Transport Inhibitors as Suppressors of *Plasmodium falciparum* Growth in *in Vitro* Cultures, 92
- Camerman, Arthur. See *Mastropaolo and Camerman*, 273
- Camerman, Norman. See *Mastropaolo and Camerman*, 273
- Capson, Todd L. See *Bullard*, 104
- Casida, John E. See *Squires, Richardson, and Saederup*, 326
- Chabala, Lee D. See *Nerbonne, Sheridan, and Lester*, 344
- Chang, Henry, Ewert, Sandra M., and Nagel, Ronald L. Identification of 2-Imidazolines as Anti-Sickling Agents, 731
- Chavkin, Charles. See *Cox*, 36
- Chemnitz, Jörg M., and Zech, Ronald. Inhibition of Brain Carboxylesterases by Neurotoxic and Non-Neurotoxic Organophosphorus Compounds, 717
- Cheng, Yung-Chi
and Nakayama, Koji. Effects of 5-Fluoro-2'-deoxyuridine on DNA Metabolism in HeLa Cells, 171
See *Mancini*, 159
- Chiang, John Y. L., DiLella, Anthony G., and Steggles, Alan W. Effect of Inducers and Aging on Rabbit Liver Microsomal Drug-Metabolizing Enzymes, 244
- Combest, Wendell L., and Russell, Diane Haddock. Alteration in Cyclic AMP-Dependent Protein Kinases and Polyamine Biosynthetic Enzymes during Hypertrophy and Hyperplasia of the Thyroid in the Rat, 641
- Costa, Erminio. See *Olianas, Onali, and Neff*, 393
- Covey, Douglas F. See *Klunk, Kalman, and Ferrendelli*, 511
- Cox, Brian M., and Chavkin, Charles. Comparison of Dynorphin-Selective κ Receptors in Mouse Vas Deferens and Guinea Pig Ileum: Spare Receptor Fraction as a Determinant of Potency, 36
- Craviso, Gale L.
and Musacchio, José M. High-Affinity Dextromethorphan Binding Sites in Guinea Pig Brain. I. Initial Characterization, 619
and Musacchio, José M. High-Affinity Dextromethorphan Binding Sites in Guinea Pig Brain. II. Competition Experiments, 629
- Creese, Ian
See *Sibley*, 585
See *Sibley and Mahan*, 295
- Creveling, C. R., McNeal, E. T., Daly, J. W., and Brown, G. B. Batrachotoxin-Induced Depolarization and [³H]Batrachotoxinin-A 20 α -Benzoate Binding in a Vesicular Preparation from Guinea Pig Cerebral Cortex: Inhibition by Local Anesthetics, 350

D

- Daly, J. W. See *Creveling, McNeal, and Brown*, 350
- Daniels, A. J., Dean, G., Viveros, O. H., and Diliberto, E. J., Jr. Secretion of Newly Taken Up Ascorbic Acid by Adrenomedullary Chromaffin Cells Originates from a Compartment Different from the Catecholamine Storage Vesicle, 437
- Dawson, Glyn. See *West, McLawhon, and Miller*, 486
- Dean, G. See *Daniels, Viveros, and Diliberto*, 437
- De Clercq, Erik. See *Balzarini*, 175
- DiLella, Anthony G. See *Chiang and Steggles*, 244
- Diliberto, E. J., Jr. See *Daniels, Dean, and Viveros*, 437
- DiMaio, John. See *Noguchi, Ackerman, Schiller, and Schechter*, 100

0026-896X/83/030787-05\$02.00/0

Copyright © 1983 by The American Society for Pharmacology and Experimental Therapeutics.

All rights of reproduction in any form reserved.

- Donahue, Manus J., Masaracchia, Ruthann A., and Harris, Ben G.** The Role of Cyclic AMP-Mediated Regulation of Glycogen Metabolism in Levamisole-Perfused *Ascaris suum* Muscle, 378
- Douglas, Kenneth T., Sharma, Rajiv K., Walmsley, Joanne F., and Hider, Robert C.** Ionization Processes of Some Harmala Alkaloids, 614
- Dumbrille-Ross, Anne, and Tang, Siu W.** Binding of [³H]Ro 11-2465: Possible Identification of a Subclass of [³H]Imipramine Binding Sites, 607
- Dwyer, Lawrence A.** See *Kedderis, Rickert, and Hollenberg*, 758
- Dryoff, Martin C., and Neal, Robert A.** Studies of the Mechanism of Metabolism of Thioacetamide S-Oxide by Rat Liver Microsomes, 219

E

- Earle, Martin F., and Glazer, Robert I.** 2'-Deoxycoformycin Toxicity in Murine Spleen Lymphocytes, 165
- Edwards, Mary C., Nouri, A. M. E., Gordon, D., and Evans, F. J.** Tumor-Promoting and Nonpromoting Proinflammatory Esters Act as Human Lymphocyte Mitogens with Different Sensitivities to Inhibition by Cyclosporin A, 703
- Eling, Thomas E.** See *Josephy and Mason*, 461, 766
- Enjalbert, Alain, and Bockaert, Joël.** Pharmacological Characterization of the D₂ Dopamine Receptor Negatively Coupled with Adenylate Cyclase in Rat Anterior Pituitary, 576
- Enna, S. J.** See *Kendall and Taylor*, 594
- Evans, F. J.** See *Edwards, Nouri, and Gordon*, 703
- Ewert, Sandra M.** See *Chang and Nagel*, 731

F

- Factor, M. I.** See *Korneyev*, 310
- Fahl, William E.** See *Ho and Gill*, 198
- Felig, Phillip.** See *Madar*, 141
- Ferrendelli, James A.** See *Klunk, Kalman, and Covey*, 511
- Fischer, Paul H., Weddle, Margaret A., and Mossie, Raymond D.** Modulation of the Metabolism and Cytotoxicity of Iododeoxyuridine by 5'-Amino-5'-Deoxythymidine, 709
- Fox, Anthony W.** See *Minneman and Abel*, 359
- Frye, Roy A., and Holz, Ronald W.** Phospholipase A₂ Inhibitors Block Catecholamine Secretion and Calcium Uptake in Cultured Bovine Adrenal Medullary Cells, 547

G

- García-Sáinz, J. Adolfo.** See *Huerta-Bahena and Villalobos-Molina*, 67
- Gati, W. P., Knaus, E. E., and Wiebe, L. I.** Interaction of 2'-Halogeno-2'-deoxyuridines with the Human Erythrocyte Nucleoside Transport Mechanism, 146
- Gill, Kamal.** See *Ho and Fahl*, 198
- Ginsburg, Hagai.** See *Cabantchik, Kutner, and Krugliak*, 92
- Glazer, Robert I.**
and **Hartman, Kathleen D.** *In Vitro* Translation of Messenger RNA following Exposure of Human Colon Carcinoma Cells in Culture to 5-Fluorouracil and 5-Fluorouridine, 540
See *Earle*, 165
- Goldberg, Irving H.** See *Napier*, 500
- Goldstein, Dora B.** See *Lyon*, 86
- Goldstein, Joyce A.** See *Luster, Lawson, and Linko*, 252
- Gordon, D.** See *Edwards, Nouri, and Evans*, 703
- Green, Susan S.** See *Brostrom, Brostrom, and Brotman*, 399
- Grimmond, Hyranne.** See *Beerman and Mueller*, 493
- Grove, J. Russell.** See *Vannice and Ringold*, 779
- Guchait, Ras B.** See *Stolk, Hurst, Vantini, Lefort, and Nisula*, 112
- Gustafsson, Jan-Åke.** See *Toftgård and Halpert*, 265

H

- Haas, Yaira.** See *Perrin, Rivier, and Vale*, 44
- Hakala, Maire T.** See *Yin and Zakrzewski*, 190

Halpert, James

- Näslund, Birgitta, and Betnér, Ingvar.** Suicide Inactivation of Rat Liver Cytochrome P-450 by Chloramphenicol *in Vivo* and *in Vitro*, 445
See *Toftgård and Gustafsson*, 265
- Harden, T. Kendall.** See *Meeker*, 384
- Harris, Ben G.** See *Donahue and Masaracchia*, 378
- Hartman, Kathleen D.** See *Glazer*, 540
- Hartzell, Charles R.** See *Malinconico and McCarl*, 417
- Hasegawa, Toshiaki.** See *Tonda and Hirata*, 235
- Hennings, G.** See *Jung, Pfeifer, and Bessler*, 698
- Henry, Jean-Pierre.** See *Scherman*, 431
- Hider, Robert C.** See *Douglas, Sharma, and Walmsley*, 614
- Hirata, Masaharu.** See *Tonda and Hasegawa*, 235
- Hirata, Masato, Suematsu, Eiichi, and Koga, Toshitaka.** Effect of Calmodulin and Calmodulin Antagonists on the Ca²⁺ Uptake by the Intracellular Ca²⁺-Accumulating System of Guinea Pig Peritoneal Macrophages Treated with Saponin, 78
- Hirayama, Noriaki, Shirahata, Kunikatsu, Ohashi, Yuji, and Sasada, Yoshio.** Conformations of Fortimicins and Three-Dimensional Structure-Activity Relationship in the Aminoglycoside Antibiotics, 127
- Ho, Dominic, Gill, Kamal, and Fahl, William E.** Benz[*a*]anthracene and 3-Methylcholanthrene Induction of Cytochrome P-450 in C3H/10T1/2 Mouse Fibroblasts: Modulating Role of Cytotoxic 3-Methylcholanthrene Metabolites, 198
- Hollenberg, Paul F.** See *Kedderis, Dwyer, and Rickert*, 758
- Holz, Ronald W.** See *Frye*, 547
- Hom, D. S.** See *Law and Loh*, 26
- Hook, Jerry B.** See *Wolf and Lock*, 206
- Huerta-Bahena, Judith, Villalobos-Molina, Rafael, and García-Sáinz, J. Adolfo.** Trifluoperazine and Chlorpromazine Antagonize *Alpha*₁- but Not *Alpha*₂-Adrenergic Effects, 67
- Hulme, E. C.** See *Stockton, Birdsall, and Burgen*, 551
- Hunter, Sheila A.** See *Burstein and Ozman*, 121
- Hurst, Jeffrey H.** See *Stolk, Guchhait, Vantini, Lefort, and Nisula*, 112
- Hyman, Albert L.** See *Mellion, Ignarro, Myers, Ohlstein, Ballot, and Kadowitz*, 653

I

- Ignarro, Louis J.** See *Mellion, Myers, Ohlstein, Ballot, Hyman, and Kadowitz*, 653
- Ionescu, Mihai.** See *Benga, Popescu, and Pop*, 771

J

- Jacoby, Richard.** See *Levin and Wein*, 1
- Jakoby, William B.** See *Stevens*, 761
- Javitch, Jonathan A.** See *Lee and Snyder*, 563
- Jaworski, Cynthia J.** See *Johnson*, 648
- Jefcoate, Colin R.** See *Keller*, 735
- Jeffery, E. H.**
The Effect of Zinc on NADPH Oxidation and Monooxygenase Activity in Rat Hepatic Microsomes, 467
and **Mannering, G. J.** Interaction of Constitutive and Phenobarbital-Induced Cytochrome P-450 Isozymes during the Sequential Oxidation of Benzphetamine: Explanation for the Difference in Benzphetamine-Induced Hydrogen Peroxide Production and 455-nm Complex Formation in Microsomes from Untreated and Phenobarbital-Treated Rats, 748
- Jenden, Donald J.** See *Ringdahl*, 17
- Johnson, George S., and Jaworski, Cynthia J.** Glucocorticoids Increase GTP-Dependent Adenylate Cyclase Activity in Cultured Fibroblasts, 648
- Josephy, P. David**
Eling, Thomas E., and Mason, Ronald P. An Electron Spin Resonance Study of the Activation of Benzidine by Peroxidases, 766

- Eling, Thomas E., and Mason, Ronald P. Oxidation of *p*-Aminophenol Catalyzed by Horseradish Peroxidase and Prostaglandin Synthase, 461
- Jung, G., Hennings, G., Pfeifer, M., and Bessler, W. G. Interaction of Metal-Complexing Compounds with Lymphocytes and Lymphoid Cell Lines, 698

K

- Kadowitz, Philip J. See Mellion, Ignarro, Myers, Ohlstein, Ballot, and Hyman, 653
- Kahn, G. Clare. See Boobis, Murray, Robertz, and Davies, 474
- Kalman, Barry L. See Klunk, Ferrendelli, and Covey, 511
- Kato, Ryuichi. See Nakaki, Nakadate, and Yamamoto, 228
- Kedderis, Gregory L., Dwyer, Lawrence A., Rickert, Douglas E., and Hollenberg, Paul F. Source of the Oxygen Atom in the Product of Cytochrome P-450-Catalyzed *N*-Demethylation Reactions, 758
- Keller, Gabriela M., and Jefcoate, Colin R. Modulation of Microsomal Benzo[*a*]pyrene Metabolism by DNA, 735
- Kendall, David A., Taylor, Duncan P., and Enna, S. J. [³H]Tetrahydrotrazodone Binding: Association with Serotonin Binding Sites, 594
- Kloss, Michelle W., Rosen, Gerald M., and Rauckman, Elmer J. *N*-Demethylation of Cocaine to Norcocaine: Evidence for Participation by Cytochrome P-450 and FAD-Containing Monooxygenase, 482
- Klunk, William E., Kalman, Barry L., Ferrendelli, James A., and Covey, Douglas F. Computer-Assisted Modeling of the Picrotoxinin and γ -Butyrolactone Receptor Site, 511
- Knaus, E. E. See Gati and Wiebe, 146
- Koga, Toshitaka. See Hirata and Suematsu, 78
- Korneyev, A. Ya., and Factor, M. I. Change in B_{max} and K_d for [³H] Flunitrazepam Observed in the Course of Washing Rat Brain Tissue with Distilled Water, 310
- Krugliak, Miriam. See Cabantchik, Kutner, and Ginsburg, 92
- Kutner, Shirley. See Cabantchik, Krugliak, and Ginsburg, 92
- Kuttan, Ramadasan. See Saunders, Lai, and Robins, 534
- Lock, Edward A. See Wolf and Hook, 206
- Loh, H. H. See Law and Hom, 26
- Lorenz, Kathryn L., and Wells, Jack N. Potentiation of the Effects of Sodium Nitroprusside and of Isoproterenol by Selective Phosphodiesterase Inhibitors, 424
- Luster, Michael I., Lawson, Lela D., Linko, Patricia, and Goldstein, Joyce A. Immunochemical Evidence for Two 3-Methylcholanthrene-Inducible Forms of Cytochrome P-448 in Rat Liver Microsomes Using a Double-Antibody Radioimmunoassay Procedure, 252
- Lyons, Robbe C., and Goldstein, Dora B. Changes in Synaptic Membrane Order Associated with Chronic Ethanol Treatment in Mice, 86

M

- Madar, Zacharia, and Felig, Phillip. 3-*O*-Methyl-D-Glucose Uptake in Isolated Rat Hepatocytes: Effects of Dexamethasone, 141
- Mahaffee, Darien D., and Ontjes, David A. Activation of Adrenal Adenylate Cyclase by Guanine Nucleotides: Promotion of Nucleotide Binding by Calcium but Not by Adrenocorticotrophic Hormone, 369
- Mahan, Lawrence C. See Sibley and Creese, 295
- Malinconico, Scott M., Hartzell, Charles R., and McCarl, Richard L. Effect of Calcium on Halothane-Depressed Beating in Heart Cells in Culture, 417
- Mancini, William R., and Cheng, Yung-Chi. Human Deoxycytidylate Deaminase: Substrate and Regulator Specificities and Their Chemotherapeutic Implications, 159
- Mannerling, G. J. See Jeffery, 748
- Masaracchia, Ruthann A. See Donahue and Harris, 378
- Mason, Ronald P. See Josephy and Eling, 461, 766
- Mastropaolo, Donald, Camerman, Arthur, and Camerman, Norman. Hydrogen Bonding Interaction of Diphenylhydantoin and 9-Ethyladenine: Crystal Structure of a 2:1 Complex, 273
- McCarl, Richard L. See Malinconico and Hartzell, 417
- McKinney, Jerry S. See Poggiali, Weiss, and Putney, 71
- McLawhon, Ronald W. See West, Dawson, and Miller, 486
- McNeal, E. T. See Creveling, Daly, and Brown, 350
- Meeker, Rick B., and Harden, T. Kendall. Muscarinic Cholinergic Receptor-Mediated Control of Cyclic AMP Metabolism: Agonist-Induced Changes in Nucleotide Synthesis and Degradation, 384
- Mellion, B. Theo, Ignarro, Louis J., Myers, Carl B., Ohlstein, Eliot H., Ballot, Bryan A., Hyman, Albert L., and Kadowitz, Philip J. Inhibition of Human Platelet Aggregation by *S*-Nitrosothiols: Heme-Dependent Activation of Soluble Guanylate Cyclase and Stimulation of Cyclic GMP Accumulation, 653
- Miller, Richard J. See West, McLawhon, and Dawson, 486
- Minneman, Kenneth P., Fox, Anthony W., and Abel, Peter W. Occupancy of α_1 -Adrenergic Receptors and Contraction of Rat Vas Deferens, 359
- Molinoff, Perry B. See Zahniser, 303
- Mossie, Raymond D. See Fischer and Weddle, 709
- Mueller, Gail. See Beerman and Grimmond, 493
- Murray, Stephen. See Boobis, Kahn, Robertz, and Davies, 474
- Musacchio, José M. See Craviso, 619, 629 See Lin, 558
- Myers, Carl B. See Mellion, Ignarro, Ohlstein, Ballot, Hyman, and Kadowitz, 653
- Nadel, Jay A. See Barnes, Skoogh, and Roberts, 570
- Nagel, Ronald L. See Chang and Ewert, 731
- Nakadate, Teruo. See Nakaki, Yamamoto, and Kato, 228
- Nakaki, Toshio, Nakadate, Teruo, Yamamoto, Satoshi, and Kato, Ryuichi. α_2 -Adrenergic Receptor in Intestinal Epithelial Cells: Identification by [³H]Yohimbine and Failure to Inhibit Cyclic AMP Accumulation, 228

N

- Nakayama, Koji.** See *Cheng*, 171
Napier, Mary A., and Goldberg, Irving H. Neocarcinostatin Chromophore: Assignment of Spectral Properties and Structural Requirements for Binding to DNA, 500
Naäslund, Birgitta. See *Halpert and Betnér*, 445
Neal, Robert A.
 See *Dryoff*, 219
 See *Sawahata*, 453
Neff, Norton H. See *Olianas, Onali, and Costa*, 393
Nerbonne, Jeanne M., Sheridan, Robert E., Chabala, Lee D., and Lester, Henry A. *cis*-3,3'-Bis-[α -(trimethylammonium)methyl] azobenzene (*cis*-Bis-Q): Purification and Properties at Acetylcholine Receptors of *Electrophorus* Electroples, 344
Nisula, Bruce C. See *Stolk, Hurst, Guchhait, Vantini, and Lefort*, 112
Noguchi, Constance Tom, Ackerman, Samuel, DiMaio, John, Schiller, Peter W., and Schechter, Alan N. The Effect of Phenylalanine Derivatives on the Solubility of Deoxyhemoglobin S: A Model Class of Gelation Inhibitors, 100
Nouri, A. M. E. See *Edwards, Gordon, and Evans*, 703

O

- Ohashi, Yuji.** See *Hirayama, Shirahata, and Sasada*, 127
Ohlstein, Eliot H. See *Mellion, Ignarro, Myers, Ballot, Hyman, and Kadowitz*, 653
Olianas, Maria C., Onali, Pierluigi, Neff, Norton H., and Costa, Erminio. Adenylate Cyclase Activity of Synaptic Membranes from Rat Striatum: Inhibition by Muscarinic Receptor Agonists, 393
Olsen, Richard W. See *Leeb-Lundberg*, 315
Onali, Pierluigi. See *Olianas, Neff, and Costa*, 393
Ontjes, David A. See *Mahaffee*, 369
Ormeño, Guillermo. See *Stutzin, Paravic, and Orrego*, 409
Orrego, Fernando. See *Stutzin, Paravic, and Ormeño*, 409
Ozman, Kent. See *Burstein and Hunter*, 121

P

- Palmer, Taylor.** See *Brown*, 8
Paravic, Francisca. See *Stutzin, Ormeño, and Orrego*, 409
Perrin, Marilyn H., Haas, Yaira, Rivier, Jean E., and Vale, Wylie W. Gonadotropin-Releasing Hormone Binding to Rat Anterior Pituitary Membrane Homogenates: Comparison of Antagonists and Agonists Using Radiolabeled Antagonist and Agonist, 44
Pfeifer, M. See *Jung, Hennings, and Bessler*, 698
Pocock, Gillian
 Ionic and Metabolic Requirements for Stimulation of Secretion by Ouabain in Bovine Adrenal Medullary Cells, 671
 Ion Movements in Isolated Bovine Adrenal Medullary Cells Treated with Ouabain, 681
Poggioli, Josiane, Weiss, Stuart J., McKinney, Jerry S., and Putney, James W., Jr. Effects of Antimycin A on Receptor-Activated Calcium Mobilization and Phosphoinositide Metabolism in Rat Parotid Gland, 71
Pop, Victor I. See *Benga, Ionescu, and Popescu*, 771
Popescu, Octavian. See *Benga, Ionescu, and Pop*, 771
Protić-Sabljić, Miroslava. See *Sabljić*, 213
Putney, James W., Jr. See *Poggioli, Weiss, and McKinney*, 71

R

- Rauckman, Elmer J.** See *Kloss and Rosen*, 482
Reith, M. E. A., Sershen, H., Allen, D. L., and Lajtha, A. A portion of [³H]Cocaine Binding in Brain Is Associated with Serotonergic Neurons, 600
Richardson, Martine. See *Squires, Casida, and Saederup*, 326
Rickert, Douglas E. See *Kedderis, Dwyer, and Hollenberg*, 758
Ringdahl, Björn, and Jenden, Donald J. Affinity, Efficacy, and Stereoselectivity of Oxotremorine Analogues for Muscarinic Receptors in the Isolated Guinea Pig Ileum, 17

- Ringold, Gordon M.** See *Vannice and Grove*, 779
Rivier, Jean E. See *Perrin, Haas, and Vale*, 44
Roberts, James M. See *Barnes, Skoogh, and Nadel*, 570
Robertz, Gerda-Marie. See *Boobis, Murray, Kahn, and Davies*, 474
Robins, Roland K. See *Saunders, Kuttan, and Lai*, 534
Rosen, Gerald M. See *Kloss and Rauckman*, 482
Russell, Diane Haddock. See *Combest*, 641

S

- Sabljić, Aleksandar, and Protić-Sabljić, Miroslava.** Quantitative Structure-Activity Study on the Mechanism of Inhibition of Mitochondrial *p*-Hydroxylation of Aniline by Alcohols: Role of Steric Factors, 213
Saederup, Else. See *Squires, Casida, and Richardson*, 326
Sasada, Yoshio. See *Hirayama, Shirahata, and Ohashi*, 127
Saunders, Priscilla P., Kuttan, Ramadasan, Lai, Mildred M., and Robins, Roland K. Action of 2- β -D-Ribofuranosylthiazole-4-carboxamide (Tiazofurin) in Chinese Hamster Ovary and Variant Cell Lines, 534
Sawahata, Tadashi, and Neal, Robert A. Biotransformation of Phenol to Hydroquinone and Catechol by Rat Liver Microsomes, 453
Schechter, Alan N. See *Noguchi, Ackerman, DiMaio, and Schiller*, 100
Scherman, Daniel, and Henry, Jean-Pierre. The Catecholamine Carrier of Bovine Chromaffin Granules: Form of the Bound Amine, 431
Schiller, Peter W. See *Noguchi, Ackerman, DiMaio, and Schechter*, 100
Sershen, H. See *Reith, Allen, and Lajtha*, 600
Sharma, Rajiv K. See *Douglas, Walmsley, and Hider*, 614
Sheridan, Robert E. See *Nerbonne, Chabala, and Lester*, 344
Shirahata, Kunikatsu. See *Hirayama, Ohashi, and Sasada*, 127
Sibley, David R.
 and **Creese, Ian.** Interactions of Ergot Alkaloids with Anterior Pituitary D-2 Dopamine Receptors, 585
 Mahan, Lawrence C., and Creese, Ian. Dopamine Receptor Binding on Intact Cells: Absence of a High-Affinity Agonist-Receptor Binding State, 295
Silver, Paul J., and Stull, James T. Effects of the Calmodulin Antagonist, Fluphenazine, on Phosphorylation of Myosin and Phosphorylase in Intact Smooth Muscle, 665
Skoogh, Bengt-Eric. See *Barnes, Nadel, and Roberts*, 570
Sladeczek, Fritz, and Bockaert, Joël. Turnover *In Vivo* of α_1 -Adrenergic Receptors in Rat Submaxillary Glands, 282
Snyder, Solomon H. See *Lee and Javitch*, 563
Spivak, C. E., Waters, J., Witkop, B., and Albuquerque, E. X. Potencies and Channel Properties Induced by Semirigid Agonists at Frog Nicotinic Acetylcholine Receptors, 337
Squires, Richard F., Casida, John E., Richardson, Martine, and Saederup, Else. [³⁵S]*t*-Butylbicyclophosphorothionate Binds with High Affinity to Brain-Specific Sites Coupled to γ -Aminobutyric Acid-A and Ion Recognition sites, 326
Steggles, Alan W. See *Chiang and DiLella*, 244
Stevens, James, and Jakoby, William B. Cystein Conjugate β -Lyase, 761
Stockton, J. M., Birdsall, N. J. M., Burgen, A. S. V., and Hulme, E. C. Modification of the Binding Properties of Muscarinic Receptors by Gallamine, 551
Stolk, Jon, M., Hurst, Jeffrey H., Guchhait, Ras B., Vantini, Guido, Lefort, Guy P., and Nisula, Bruce C. Metabolic Clearance Rate of Dopamine β -Hydroxylase in the Rat, 112
Strichartz, G. R. See *Wang*, 519
Stull, James T. See *Silver*, 665
Stutzin, Andrés, Paravic, Francisca, Ormeño, Guillermo, and Orrego, Fernando. Guanethidine Effects on the Guinea Pig Vas Deferens Are Antagonized by the Blockers of Calcium-Activated Potassium Conductance, Apamin, Methylene Blue, and Quinine, 409

Suematsu, Eiichi. See *Hirata and Koga*, 78

T

- Tang, Siu W. See *Dumbrille-Ross*, 607
 Taylor, Duncan P. See *Kendall and Enna*, 594
 Tephly, T. R. See *Black*, 724
 Thyagarajan, Rajee. See *Burch and Ticku*, 52
 Ticku, Maharaj K. See *Burch and Thyagarajan*, 52
 Toftgård, Rune, Halpert, James, and Gustafsson, Jan-Åke. Xylene Induces a Cytochrome P-450 Isozyme in Rat Liver Similar to the Major Isozyme Induced by Phenobarbital, 265
 Tonda, Kanya, Hasegawa, Toshiaki, and Hirata, Masaharu. Effects of Phenobarbital and 3-Methylcholanthrene Pretreatments on Monooxygenase Activities and Proportions of Isolated Rat Hepatocyte Subpopulations, 235

V

- Vale, Wylie W. See *Perrin, Haas, and Rivier*, 44
 Vannice, James L., Grove, J. Russell, and Ringold, Gordon M. Analysis of Glucocorticoid-Inducible Genes in Wild-Type and Variant Rat Hepatoma Cells, 779
 Vantini, Guido. See *Stolk, Hurst, Guchhait, Lefort, and Nisula*, 112
 Villalobos-Molina, Rafael. See *Huerta-Bahena and García-Sáinz*, 67
 Viveros, O. H. See *Daniels, Dean, and Diliberto*, 437

W

- Wallace, R. M., and Young, J. M. Temperature Dependence of the Binding of [³H]Mepyramine and Related Compounds to the Histamine H₁ Receptor, 60
 Walmsley, Joanne F. See *Douglas, Sharma, and Hider*, 614
 Wang, G. K., and Strichartz, G. R. Purification and Physiological Characterization of Neurotoxins from Venoms of the Scorpions *Centruroides sculpturatus* and *Leiurus quinquestriatus*, 519

- Watanabe, Minro. See *Abe*, 258
 Waters, J. See *Spivak, Witkop, and Albuquerque*, 337
 Weddle, Margaret A. See *Fischer and Mossie*, 709
 Wein, Alan J. See *Levin and Jacoby*, 1
 Weiss, Stuart J. See *Poggioli, McKinney, and Putney*, 71
 Welch, Arnold D. See *Belt*, 153
 Wells, Jack N. See *Lorenz*, 424
 West, Robert E., Jr., McLawhon, Ronald W., Dawson, Glyn, and Miller, Richard J. [³H]Ethylketocyclazocine Binding to NCB-20 Hybrid Neurotumor Cells, 486
 Wiebe, L. I. See *Gati and Knaus*, 146
 Witkop, B. See *Spivak, Waters, and Albuquerque*, 337
 Wolf, C. Roland, Hook, Jerry B., and Lock, Edward A. Differential Destruction of Cytochrome P-450-Dependent Monooxygenases in Rat and Mouse Kidney following Hexachloro-1:3-butadiene Administration, 206
 Wu, Felicia Ying-Hsiueh, and Le Pecq, Jean-Bernard. Mechanistic Studies of a Novel Antitumor Drug, α -1,3,5-Triglycidyl-*s*-Triazinetrione: Antitumor and Cytotoxic Effects, 182

Y

- Yamamoto, Satoshi. See *Nakaki, Nakadate, and Kato*, 228
 Yin, Ming-Biao, Zakrezewski, Sigmund F., and Hakala, Maire T. Relationship of Cellular Cofactor Pools to the Activity of 5-Fluorouracil, 190
 Young, J. M. See *Wallace*, 60

Z

- Zahniser, Nancy R., and Molinoff, Perry B. Thermodynamic Differences between Agonist and Antagonist Interactions with Binding Sites for [³H]Spiroperidol in Rat Striatum, 303
 Zakrezewski, Sigmund F. See *Yin and Hakala*, 190
 Zech, Ronald. See *Chemnitius*, 717

NOTICE

Molecular Pharmacology is no longer considering manuscripts for publication as “Short Communications.”

Notice to Prospective Authors Wishing to Submit Manuscripts to

Journal of Pharmacology and Experimental Therapeutics

Molecular Pharmacology

Drug Metabolism and Disposition

The expenses associated with the review of manuscripts submitted to those ASPET-sponsored journals that are devoted to publishing original research articles have escalated dramatically in recent years because of ever-increasing costs of postage, supplies, and other office expenses, and the growing number of manuscripts submitted for publication. In order to continue to offer authors the opportunity to publish their original research in our critically reviewed, well-edited, and widely respected journals, it has become necessary for ASPET to follow the example of several other scientific societies which have instituted a uniform manuscript handling fee for each of its journals that publishes original research reports. Therefore, all manuscripts received in the editorial office on or after July 1, 1983, must be accompanied either by a check for \$30.00 (in U. S. funds payable to ASPET) or by a validated purchase order from the authors' institution. The review process for submitted manuscripts will be delayed until the manuscript handling fee or purchase order is received in the appropriate Editor's office. We regret the necessity of instituting a manuscript handling fee. The Board of Publications Trustees has concluded, however, that this charge represents the fairest and most appropriate manner to defray the costs related to the review of submitted manuscripts.

INSTRUCTIONS TO AUTHORS

Molecular Pharmacology will publish the results of investigations that contribute significant new information on drug action or selective toxicity at the molecular level. The term "drug" is defined broadly to include chemicals that selectively modify biological function.

Suitable papers are those that describe applications of the methods of biochemistry, biophysics, genetics, and molecular biology to problems in pharmacology or toxicology. Also suitable are reports of fundamental investigations which, although not concerned directly with drugs, nevertheless provide an immediate basis for further study of the molecular mechanism of drug action. Observations of phenomena that shed no light upon underlying molecular interactions are not appropriate for publication. Comparative studies, such as those involving drug-receptor or drug-enzyme interactions that already have been well characterized in other types of cells or tissues, also are inappropriate for publication unless they contribute significant new insight into mechanisms.

Specific areas of interest include: stereochemical, electronic, and other parameters of drug architecture; conformational analysis of receptors and their function; drug-enzyme and other interactions between drugs and macromolecules; drug effects upon gene replication and transcription and on protein synthesis; mechanism of action of antibiotics and other growth-inhibitory drugs; induction by drugs of changes in macromolecular structure or allosteric transitions; drug-induced alterations in metabolic pathways; effects of hormones and other drugs on cellular regulatory mechanisms; chemical mutagenesis, carcinogenesis, and teratogenesis; pharmacogenetics, idiosyncrasies, and drug allergies; selective toxicity in a single organism or in different species; drug actions on properties and functions of membranes; mechanisms of drug metabolism; distribution and transport of drug molecules between biological compartments.

Page charges. Authors will be billed at the rate of \$30.00 per page after the paper has been published. It is expected that the page charge will be paid if funds are available for that purpose from the author's institution or from the sponsor of this research. Payment of the charge is not a condition for publication. Neither the editors nor the reviewers will have knowledge as to who has paid the charge, and this payment always will be considered entirely voluntary.

Submission of manuscript. Manuscripts are published in English only and should be sent to the Editor, Dr. Joel Hardman, Editor, *Molecular Pharmacology*, Department of Pharmacology, Vanderbilt University Medical Center, Nashville, Tennessee 37232, U. S. A. Manuscripts should be typewritten double-spaced with ample margins on one side of the paper, 8½ × 11 inches (ca. 215 × 280 mm). Submit four complete copies of the manuscript and four copies of each figure, plus one original drawing or photograph of each figure. Each half-tone figure requires four original drawings or photographs. All pages should be numbered consecutively beginning with the title page. Limit your reference listings to the minimal number required to document the manuscript adequately. In most instances 30 references or fewer should suffice.

Under usual circumstances reviewers will be instructed to return only their comments to the editorial office and to destroy manuscripts after a final decision on their acceptability has been made. Original figures and single copies of manuscripts not accepted for publication will be returned to the authors upon request.

It is understood that the manuscripts and the results they contain will not have been published previously and are not being submitted elsewhere. Manuscripts are accepted for review with the understanding that all persons listed as authors have given their approval for the submission of the paper; further, that any person cited as a source of personal communications has approved such citation. Written authorization may be required at the Editor's discretion. Articles and any other material published in *Molecular Pharmacology* represent the opinions of the author(s) and should not be construed to reflect the opinions of the Editor(s) and the Publisher. If and when a manuscript is published, it will become the sole property of the Journal.

Authors submitting a manuscript do so on the understanding that if it is accepted for publication, copyright in the article, including the right to reproduce the article in all forms and media, shall be assigned exclusively to the Society for Pharmacology and Experi-

mental Therapeutics. No reasonable request by the author for permission to reproduce any of his or her contributions to the journal will be refused.

Organization and style of manuscripts. The policy of the Journal is to allow authors maximum freedom in organizing and presenting their material, and in expressing their ideas, provided only that clarity and conciseness are achieved.

Certain conventions must be observed. Chemical and mathematical formulas and abbreviations should follow the *Instructions to Authors of the Journal of Biological Chemistry* (Vol. 256, pp. 1-11, January 10, 1981). Drugs must be referred to by their generic or chemical names throughout the text, but may be identified by trade name in parentheses or a footnote. The systematic name and number given by the Commission on Enzymes of the International Union of Biochemistry should be included for each enzyme of importance in a paper, at the point in the Summary or Introduction where the enzyme is first mentioned. The use of abbreviations should be minimized and abbreviations avoided in the Summary. All essential abbreviations should be defined in a single footnote when first introduced. Abbreviations of journal names should conform to the style of *Biological Abstracts*. References to papers that have been accepted for publication, but have not appeared, should be cited like other references with the abbreviated name of the journal followed by the words "in press." Copies of such papers should be sent whenever the findings described in them have a direct bearing on the paper being submitted for publication. "Personal Communications" and "Unpublished Observations" should be cited in footnotes to the text and should not be included in the reference list.

A manuscript should include the following, in the order listed: (1) Title. Numbered footnotes to the title should be avoided; acknowledgment of financial support should be given in an unnumbered footnote to the title. (2) Names of authors, their laboratory and institution. (3) A running title, not exceeding 60 characters and spaces. (4) Summary. (5) Text. Footnotes should be referred to by superscript numbers and references by numbers in parentheses. (6) References, numbered according to order of citation in the text, including title and complete pagination. Examples: 1. Goren, J. H., L. G. Baue, and W. Vale. Forces and structural limitations of binding of thyrotropin-releasing receptor: the pyroglutamic acid moiety. *Mol. Pharmacol.* 13:606-614 (1977). 2. Sandler, M. Varia-

tions in monoamine oxidase activity in some human disease states, in *Monoamine Oxidase and Its Inhibition*. Ciba Foundation Symposium 39. Elsevier, Amsterdam, 327-340 (1976). (7) Footnotes, numbered according to order of appearance in the text. (8) Tables. (9) Figures. (10) Legends to figures. (11) Name and address of person to receive galley proof.

Tables. These should be numbered with arabic numerals and designed to fit the single-column width of the full-page width. Every table should have an explanatory title and sufficient experimental detail in a paragraph following the title to be intelligible without references to the text (unless the procedure is given in the Methods section, or under another table or figure). Footnotes to tables should appear beneath the tables themselves and should be designated by lower-case italic superscript letters, *a*, *b*, *c*, etc.

Figures. These should be numbered with arabic numerals. Each of the four manuscript copies should contain all of the figures. Only the original set need be of quality suitable for reproduction except in the case of half-tones, which require four sets of photographs or original drawings. These should be unmounted glossy photographs (or original India-ink drawings). Usually figures will be reduced to one column width (85 mm) and all numbers *after* such reduction

should be at least 1.5 mm high. The figures must be ready, in all respects, for direct reproduction: no lettering or other art work will be done by the publisher. If symbols are not explained on the face of the figure, only standard characters, of which the printer has type, may be used (\times , \circ , \bullet , \square , \blacksquare , \triangle , \blacktriangle , \odot). The back of each photograph should bear its number, and the legend TOP at the appropriate edge. The list of legends for the figures should give captions and sufficient experimental detail, as required for tables.

Galley proof. The cost of all changes on galley proof, other than printer's errors, will be charged to authors. The Editors are very much interested in having accepted contributions appear in the earliest possible issue of the Journal, and therefore request that galley proof be returned within 24 hours after its receipt. In exceptional cases, a "Note added in proof" may be attached and will be published if the Editor approves.

Reprints and page charges. An order form for reprints as well as information on the estimation of page charges will be mailed with galley proof. Please direct questions on reprints, page charges, or other business matters to Kay Croker, Executive Officer, American Society for Pharmacology and Experimental Therapeutics, 9650 Rockville Pike, Bethesda, Md. 20814. Telephone (301)530-7060.