

CONTENTS

Effects of ICI 169,369, a Selective Serotonin₂ Antagonist, in Electrophysiological Tests Predictive of Antipsychotic Activity. Jeffrey M. Goldstein, Linda C. Litwin, Evelynjeane B. Sutton and Jeffrey B. Malick	673
Dopamine and Neurotensin Storage in Colocalized and Noncolocalized Neuronal Populations. Andrew J. Bean, Thomas E. Adrian, Irvin M. Modlin and Robert H. Roth	681
Studies on the Mechanism of Hypoglycemia Induced by Intrathecal Morphine: Dissociation from Behavioral Effects, Effects of Tolerance and Depletion of Liver Glycogen. Fred Lux, Yi-Hong Han, David A. Brase and William L. Dewey	688
Synergistic <i>Alpha</i>-1 and <i>Alpha</i>-2 Adrenergic Stimulation of Rat Proximal Nephron Na⁺/H⁺ Exchange. Frank A. Gesek, Edward J. Cragoe, Jr. and Jack W. Strandhoy	694
Repeated Swim Stress Alters Brain Benzodiazepine Receptors Measured <i>in Vivo</i>. Ronit Weizman, Abraham Weizman, Karin A. Kook, Frank Vocci, Stephen I. Deutsch and Steven M. Paul	701
Anticonvulsant Activities of 1-Phenylcyclohexylamine and Its Conformationally Restricted Analog 1,1-Pentamethylenetetrahydroisoquinoline. Michael A. Rogawski, Andrew Thurkauf, Shun-Ichi Yamaguchi, Kenner C. Rice, Arthur E. Jacobson and Mariena V. Mattson	708
3,4-Methylenedioxymethamphetamine ("Ecstasy") Selectively Destroys Brain Serotonin Terminals in Rhesus Monkeys. Thomas R. Insel, George Battaglia, Jan N. Johannessen, Susan Marra and Errol B. De Souza	713
Baclofen has a Proepileptic Effect in the Rat Dentate Gyrus. David D. Mott, Andrew C. Bragdon, Darrell V. Lewis and Wilkie A. Wilson	721
S-Nitrosocaptopril. I. Molecular Characterization and Effects on the Vasculature and on Platelets. Joseph Loscalzo, Deborah Smick, Nancy Andon and John Cooke	726
S-Nitrosocaptopril. II. Effects on Vascular Reactivity. John P. Cooke, Nancy Andon and Joseph Loscalzo	730
Alterations of Spontaneous and Evoked Release of Acetylcholine during Dithiobiuret-Induced Neuromuscular Weakness. William David Atchison	735
Entry of 1-Methyl-4-Phenyl-1,2,3,6-Tetrahydropyridine into the Rat Brain. Najji J. Riachi, Joseph C. LaManna and Sami I. Harik	744
Substitution and Antagonism in Rats Trained to Discriminate (+)-N-Allylnormetazocine from Saline. Robert L. Balster	749
Role of Medullary Plasma Flow in the Attenuated Furosemide Response in Indomethacin-Treated Rats. Kent A. Kirchner	757
Multiplicative Interaction between Intrathecally and Intracerebroventricularly Administered <i>Mu</i> Opioid Agonists but Limited Interactions between <i>Delta</i> and <i>Kappa</i> Agonists for Antinociception in Mice. Sandra C. Roerig and James M. Fujimoto	762
Acute Extrapyramidal Syndrome In Cebus Monkeys: Development Mediated By Dopamine D₂ But Not D₁ Receptors. Vicki Lynn Coffin, Miklos B. Latranyi and Richard E. Chipkin	769
Characterization of the Adenosine Receptor in Cultured Embryonic Chick Atrial Myocytes: Coupling to Modulation of Contractility and Adenylate Cyclase Activity and Identification by Direct Radioligand Binding. Bruce T. Liang	775
Cholinergic Contraction to Field Stimulation in Coronary Arteries of Cattle. Stanley Kalsner and Mark Quillan	785
Electrophysiological Characteristics and Pharmacological Responsiveness of Midbrain Dopaminergic Neurons of the Aged Rat. Arthur S. Freeman, Mark D. Kelland, Claude Rouillard and Louis A. Chiodo	790
Changes in the Muscarinic Cholinergic Receptors in the Hippocampus of Rats Exposed to Ethyl Alcohol during the Brain Growth Spurt. Sandra J. Kelly, Asa C. Black, Jr. and James R. West	798
Antagonism of Leukotriene C₄, Leukotriene D₄ and Leukotriene E₄ Vasoconstrictor Responses in the Conscious Rat with the Peptidoleukotriene Receptor Antagonist SK&F 104353: Evidence for Leukotriene D₄ Receptor Heterogeneity. Edward F. Smith III, Mark J. Slivjak, R. D. Eckardt and J. F. Newton	805
Role of Cyclic AMP-Dependent Protein Kinase in the Diminished <i>Beta</i> Adrenergic Responsiveness of Vascular Smooth Muscle with Increasing Age. Theresa A. Deisher, Sheila Mankani and Brian B. Hoffman	812
Structure-Activity Study of the Mechanism of 1-Methyl-4-Phenyl-1,2,3,6-Tetrahydropyridine (MPTP)-Induced Neurotoxicity. I. Evaluation of the Biological Activity of MPTP Analogs. Stephen K. Youngster, Patricia K. Sonsalla, Beth-Anne Sieber and Richard E. Heikkila	820
Structure-Activity Study of the Mechanism of 1-Methyl-4-Phenyl-1,2,3,6-Tetrahydropyridine (MPTP)-Induced Neurotoxicity. II. Evaluation of the Biological Activity of the Pyridinium Metabolites Formed from the Monoamine Oxidase-Catalyzed Oxidation of MPTP Analogs. Stephen K. Youngster, William J. Nicklas and Richard E. Heikkila	829

Specificity of the Activation of [³H]Hemicholinium-3 Binding by Phospholipase A₂. Kiyofumi Yamada, Mario D. Saltarelli and Joseph T. Coyle	836
Muscarinic Receptors: Relationships Among Phosphoinositide Breakdown, Adenylate Cyclase Inhibition, <i>in Vitro</i> Detrusor Muscle Contractions and <i>in Vivo</i> Cystometrogram Studies in Guinea Pig Bladder. L. Noronha-Blob, V. Lowe, A. Patton, B. Canning, D. Costello and W. J. Kinnier	843
Dimethyl Sulfoxide Affects Water Flow Through a Nonosmolar Action. Sandra Sabatini, Jacqueline C. Wharton, Han K. Lim and Neil A. Kurtzman	852
Phorbol Dibutyrate Inhibits Release and Action of Endothelium-Derived Relaxing Factor(s) in Canine Blood Vessels. Gabor M. Rubanyi, Denise Desiderio, Allan Luisi, Anthony Johns and Edmund J. Sybertz	858
<i>Mu</i>- and <i>Delta</i>-Opioid Receptor-Mediated Inhibition of Adenylate Cyclase Activity Stimulated by Released Endogenous Dopamine in Rat Neostriatal Slices; Demonstration of Potent <i>Delta</i>-Agonist Activity of Bremazocine. Menno H. Heijna, François Hogenboom, P. S. Portoghese, Arie H. Mulder and Anton N. M. Schoffelmeer	864
Zonal Compartmentation of Perfused Rat Liver: Plasma Reappearance of Rhodamine B Explained. Ineke Braakman, Geny M. M. Groothuis and Dirk K. F. Meijer	869
Stereoselectivity of Glutathione Conjugation: Blood Elimination of <i>Alpha</i>-Bromoisovalerylurea Enantiomers and Biliary Excretion of the Conjugates in Unanesthetized Normal or Congenitally Jaundiced Rats. Martine Polhuijs, Folkert Kuipers, Roel J. Vonk and Gerard J. Mulder	874
Pharmacological Properties of the Receptor(s) Involved in the 5-Hydroxytryptamine-Induced Contraction of the Feline Middle Cerebral Artery. Edith Hamel, Jean-Pierre Robert, Alan R. Young and Eric T. MacKenzie	879
Involvement of Endothelial Cells in Relaxation and Contraction Responses of the Aorta to Isoproterenol in Naive and Streptozotocin-Induced Diabetic Rats. Katsuo Kamata, Noriyuki Miyata and Yutaka Kasuya	890
Effect of Forskolin on Cytosolic Ca⁺⁺ Level and Contraction in Vascular Smooth Muscle. Asaki Abe and Hideaki Karaki	895
Transport of Vasopressin Fragments Across the Blood-Brain Barrier: <i>In Vitro</i> Studies using Monolayer Cultures of Bovine Brain Endothelial Cells. Joost B. M. M. van Bree, Albertus G. de Boer, J. Coos Verhoef, Meindert Danhof and Douwe D. Breimer	901
Neocarzinostatin Induces Neuronal Morphology of Mouse Neuroblastoma in Culture. Nina Felice Schor	906
Species Differences in the Localization and Number of CNS <i>Beta</i> Adrenergic Receptors: Rat <i>versus</i> Guinea Pig. Rosemarie M. Booze, Edgardo A. Crisostomo and James N. Davis	911
Epidermal Cytochrome P-450: Immunochemical Characterization of Isoform Induced by Topical Application of 3-Methylcholanthrene to Neonatal Rat. Wasiuddin A. Khan, Sang S. Park, Harry V. Gelboin, David R. Bickers and Hasan Mukhtar	921
Fenfluramine Selectively and Differentially Decreases the Density of Serotonergic Nerve Terminals in Rat Brain: Evidence From Immunocytochemical Studies. Nathan M. Appel, Joseph F. Contrera and Errol B. De Souza	928
Mechanism of Toxicity of an Experimental Bidentate Phosphine Gold Complexed Antineoplastic Agent in Isolated Rat Hepatocytes. Peter F. Smith, Glenn D. Hoke, David W. Alberts, Peter J. Bugelski, Stanley Lupo, Christopher K. Mirabelli and Glenn F. Rush	944
Index; Volume 249, April-June 1989	952