Contents

ARTICLES

1061 γ-Aminobutyric Acid Type A Receptors in the Rat Brain Can Contain Both γ2 and γ3 Subunits, but γ1 Does not Exist in Combination with Another γ Subunit

Kathleen Quirk, Nigel P. Gillard, C. Ian Ragan, Paul J. Whiting, and Ruth M. McKernan

1071 Introduction of Purified α2A-Adrenergic Receptors into Uniformly Oriented, Unilamellar Phospholipid Vesicles: Productive Coupling to G Proteins but Lack of Receptor-Dependent Ion Transport

Jeffrey R. Keefer, Jodi Nunnari, I. H. Pang, and Lee E. Limbird

1082 Desensitization of the Canine A2a Adenosine Receptor: Delineation of Multiple Processes

Timothy M. Palmer, Thomas W. Gettys, Kenneth A. Jacobson, and Gary L. Stiles

1095 Antagonist-Mediated Down-regulation of 5-Hydroxytryptamine Type 2 Receptor Gene Expression: Modulation of Transcription

Miklos Toth and Thomas Shenk

1101 A Binding Site Model and Structure-Activity Relationships for the Rat A3 Adenosine Receptor


1112 The Marked Di disparity between the Sizes of Angiotensin Type 2 Receptors from Different Tissues Is Related to Different Degrees of N-Glycosylation

Guy Servant, David T. Dudley, Emanuel Escher, and Gaétan Guillemette

1119 2',3'-Dideoxyctydine Alters Calcium Buffering in Cultured Dorsal Root Ganglion Neurons

John L. Werth, Bing Zhou, Louise M. Nutter, and Stanley A. Thayer

1125 Isolation and Characterization of the Rat 5-Hydroxytryptamine Type 2 Receptor Promoter: Constitutive and Inducible Activity in the Myometrial Smooth Muscle Cells

Yun-Long Du, Brian D. Wilcox, Milt Teitler, and John J. Jeffrey

Continued
CONTENTS (cont’d)

1132 Palytoxin Induces K+ Efflux from Yeast Cells Expressing the Mammalian Sodium Pump
Georgios Scheiner-Bobis,
Dagmar Meyer zu Heringdorf,
Matthias Christ, and
Ernst Habermann

1137 Decreased Accumulation as a Mechanism of Resistance to cis-Diamminedichloroplatinum(II) in Cervix Carcinoma HeLa Cells: Relation to DNA Repair
Chuck C.-K. Chao

1145 Characterization of Rhodamine 123 Binding to P-Glycoprotein in Human Multidrug-Resistant Cells
Bakela Nare, Roger K. Prichard, and Elias Georges

1153 Dual Regulation of P450EF Expression via the Aryl Hydrocarbon Receptor and Protein Stabilization in C3H/10T1/2 Cells
Üzen Savas and Colin R. Jefcoate

1160 Positive Modulation of Intracellular Ca²⁺ Levels by Adenosine A₂b Receptors, Prostacyclin, and Prostaglandin E₁ via a Cholera Toxin-Sensitive Mechanism in Human Erythroleukemia Cells
Igor Feoktistov, John J. Murray, and Italo Biaggioni

1168 α₂-Adrenergic Receptors of the α₂C Subtype Mediate Inhibition of Norepinephrine Release in Human Kidney Cortex
Anne-Ulrike Trendelenburg,
Norbert Limberger, and Lars C. Rump

1177 L-Cysteine Sulfinic Acid as an Endogenous Agonist of a Novel Metabotropic Receptor Coupled to Stimulation of Phospholipase D Activity
Valerie Boss, Karen M. Nutt, and P. Jeffrey Conn

1183 Coupling of the Type A Endothelin Receptor to Multiple Responses in Adult Rat Cardiac Myocytes
Randa Hilal-Dandan, Dan T. Merck, Jason P. Lujan, and Laurence L. Brunton

1191 Multisite Interactions of Receptors and G Proteins: Enhanced Potency of Dimeric Receptor Peptides in Modifying G Protein Function
Susan M. Wade,
Hiroko Mori Dalman, Shang-Zhao Yang, and Richard R. Neubig

1198 Modulation of L-Type Ca²⁺ Channels in Clonal Rat Pituitary Cells by Membrane Depolarization
J. Liu, R. Bangalore, A. Rutledge, and D. J. Triggle

1207 Differential Inhibition of Protein Kinase C Isozymes by UCN-01, a Staurosporine Analogue
Caroline M. Seynaeve,
Marcelo G. Kazanietz,
Peter M. Blumberg,
Edward A. Sausville, and
Peter J. Worland

1215 Insulin-like Growth Factor-I Induces a Rapid Increase in Calcium Currents and Spontaneous Membrane Activity in Clonal Pituitary Cells
Richard H. Selinfreund and Leslie A. C. Blair

1221 Inhibition of Phosphoprotein Phosphatases Blocks Metabotropic Glutamate Receptor Effects in the Rat Nucleus Tractus Solitarii
Steven R. Glaum and Richard J. Miller

Continued
CONTENTS (cont’d)

1227 Pharmacological Characterization of Five Cloned Voltage-Gated K⁺ Channels, Types Kv1.1, 1.2, 1.3, 1.5, and 3.1, Stably Expressed in Mammalian Cell Lines

Stephan Grissmer, Angela N. Nguyen, Jayashree Aiyar, Douglas C. Hanson, Robert J. Mather, George A. Gutman, Michael J. Karmilowicz, David D. Auperin, and K. George Chandy

1235 Effects of Alcohols and Volatile Anesthetics on the Activation of Nicotinic Acetylcholine Receptor Channels

Yi Liu, James P. Dilger, and Ana Maria Vidal

1242 Aminopyridine Block of Kv1.1 Potassium Channels Expressed in Mammalian Cells and Xenopus Oocytes

Neil A. Castle, Sandra Fadous, Diomedes E. Logothetis, and Ging Kuo Wang

1253 Comparative Cytostatic Activity of Different Antiverticellular Drugs against Herpes Simplex Virus Thymidine Kinase Gene-Transfected Tumor Cells

Jan Balzarini, Christina Bohman, Richard T. Walker, and Erik De Clercq

1259 Catecholestrogens as Mediators of Carcinogenesis: Correlation of Aromatic Hydroxylation of Estradiol and Its Fluorinated Analogs with Tumor Induction in Syrian Hamsters

A. C. Stalford, J. L. Maggs, T. L. Gilchrist, and B. K. Park

1268 The Acidic Groups of the Neocarzinostatin Protein Play an Important Role in Its Biological Activity

Frank Schönlaub and Wolfgang Köhnlein

1273 Bioactivation of Arachidonic Acid by the Cytochrome P450 Monoxygenases of Guinea Pig Lung: The Orthologue of Cytochrome P450 2B4 is Solely Responsible for Formation of Epoxyeicosatrienoic Acids

Leah C. Knickle and John R. Bend

1281 Selective Inhibition by Ethanol of the Type 1 Facilitative Glucose Transporter (GLUT1)

Sharon Wald Krauss, Ivan Diamond, and Adrienne S. Gordon

1287 Interactions of Dihydralazine with Cytochromes P4501A: A Possible Explanation for the Appearance of Anti-Cytochrome P4501A2 Autoantibodies

Mohamed Bourdi, Marina Tinel, Philippe H. Beaune, and Dominique Pessayre

INDEXES

1296 Subject Index for Volume 45

1301 Author Index for Volume 45