Contents

ACCELERATED COMMUNICATIONS

1089 Analysis of Selective Binding Epitopes for the κ-Opioid Receptor Antagonist Nor-binaltorphimine
Siv A. Hjorth, Kenneth Thirstrup, David K. Grandy, and Thue W. Schwartz

1095 Expression of Human Copper/Zinc-Superoxide Dismutase Inhibits the Death of Rat Sympathetic Neurons Caused by Withdrawal of Nerve Growth Factor
Joaquin Jordan, Ghanashyam D. Ghadge, Jochen H. M. Prehn, Peter T. Toth, Raymond P. Roos, and Richard J. Miller

1101 Cloning and Stable Expression of a cDNA Encoding a Rat Liver UDP-Glucuronosyltransferase (UDP-Glucuronosyltransferase 1.1) That Catalyzes the Glucuronidation of Opioids and Bilirubin
Birgit L. Coffman, Mitchell D. Green, Christopher D. King, and Thomas R. Tephly

1106 Paclitaxel (Taxol) Inhibits Protein Isoprenylation and Induces Apoptosis in PC-3 Human Prostate Cancer Cells
Romano Danesi, William D. Figg, Eddie Reed, and Charles E. Myers

ARTICLES

1112 Inhibition by Antidepressant Drugs of Cyclic AMP Response Element-Binding Protein/Cyclic AMP Response Element-Directed Gene Transcription
M. Schwaninger, C. Schöfl, R. Blume, L. Rössig, and W. Knepel

1119 N-Methyl-d-aspartate Receptors Activate Transcription of c-fos and NGFI-A by Distinct Phospholipase A₂-Requiring Intracellular Signaling Pathways
Leslie S. Lerea, Noel G. Carlson, and James O. McNamara

Continued
CONTENTS (cont'd)

1126 Production and Characterization of Multiple Antigenic Peptide Antibodies to the Adenosine A2b Receptor

Nikola K. Puffinbarger,
Karl R. Hansen, Regina Resta,
Aletha B. Laurent,
Thomas B. Knudsen,
James L. Madara, and
Linda F. Thompson

1133 Alternatively Spliced Forms of the α Subunit of the Epithelial Sodium Channel: Distinct Sites for Amiloride Binding and Channel Pore

Xiao-Jiang Li, Ruo-Hui Xu,
William B. Guggino, and
Solomon H. Snyder

1141 Methylation of Mercaptopurine, Thioguanine, and Their Nucleotide Metabolites by Heterologously Expressed Human Thiopurine S-Methyltransferase

Eugene Y. Krynetski,
Natalia F. Krynetskaia,
Yuri Yanislewski, and
William E. Evans

1148 Cytochromes P450 of the 2D Subfamily in Rat Brain

Adrian Wyss, Jan-åke Gustafsson, and Margaret Warner

1156 Thrombin-Mediated Down-regulation of Endothelin Receptors in Mesangial Cells Coincides with the Down-regulation of Neutral Endopeptidase Activity

Christine R. Albrightson,
Mark Pullen, Hsiao-Ling Wu,
George Dytko, Louis B. Hersh, and Ponnal Nambi

1164 Regulation of Distinct Cyclic AMP-Specific Phosphodiesterase (Phosphodiesterase Type 4) Isozymes in Human Monocytic Cells

Margrith W. Verghese,
Randy T. McConnell,
James M. Lenhard,
Lawrence Hamacher, and
S.-L. Catherine Jin

1172 Adenosine A1 Receptor-Mediated Activation of Phospholipase C-β3 in Intestinal Muscle: Dual Requirement for α and βγ Subunits of G13

K. S. Murthy and G. M. Makhlouf

1180 Cloning and Functional Characterization Through Antisense Mapping of a κ3-Related Opioid Receptor

Ying-Xian Pan, Jie Cheng, Jin Xu,
Grace Rossi, Elissa Jacobson,
Jennifer Ryan-Moro,
Andrew I. Brooks, Gary E. Dean,
Kelly M. Standifer, and
Gavril W. Pasternak

1189 Modulation of the γ-Aminobutyric Acid Type A Receptor by the Antiepileptic Drugs Carbamazepine and Phenytoin

Patrick Granger, Bruno Biton,
Cécile Faure, Xavier Vigé,
Henri Depoortere, David Graham,
Salomon Z. Langer,
Bernard Scatton, and
Patrick Avenet

1197 Interpretation of Binding Curves Obtained with High Receptor Concentrations: Practical Aid for Computer Analysis

Stéphane Swillens

1204 2-Hydroxyethyl-α-D-glucopyranoside-2,3',4'-trisphosphate, a Novel, Metabolically Resistant, Adenostatin A and myo-Inositol-1,4,5-trisphosphate Analogue, Potently Interacts with the myo-Inositol-1,4,5-trisphosphate Receptor

Robert A. Wilcox,
Christophe Erneux,
William U. Primrose, Roy Gigg,
and Stefan R. Nahorski

Continued
<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1212</td>
<td>Mechanism of 5-Lipoxygenase Inhibition by Acetyl-11-keto-(\beta)-boswellic Acid</td>
<td>Hasan Safayhi, Eckart-Roderich Sailer, and Hermann P. T. Ammon</td>
</tr>
<tr>
<td>1217</td>
<td>Dual Modulation of the (\gamma)-Aminobutyric Acid Type A Receptor/Ionophore by Alkyl-Substituted (\gamma)-Butyrolactones</td>
<td>Katherine D. Holland, Gregory C. Mathews, Annabel M. Bolos-Sy, Joseph B. Tucker, P. Amruta Reddy, Douglas F. Covey, James A. Ferrendelli, and Steven M. Rothman</td>
</tr>
<tr>
<td>1224</td>
<td>Metabolism of Ethanol to 1-Hydroxyethyl Radicals \textit{In Vivo}: Detection with Intravenous Administration of (\alpha)-(4-Pyridyl-1-oxide)-N-t-butyl-nitron (\beta)-deoxy-L-uridine and (E)-5-(2-Bromovinyl)-2'-deoxy-L-uridine: Selective Phosphorylation by Herpes Simplex Virus Type 1 Thymidine Kinase, Antiviral Activity, and Cytotoxicity Studies</td>
<td>Danny R. Moore, Lester A. Reinke, and Paul B. McCay</td>
</tr>
<tr>
<td>1239</td>
<td>Involvement of Divalent Ions in the Nitric Oxide-Induced Blockade of (N)-Methyl-d-aspartate Receptors in Cerebellar Granule Cells</td>
<td>Laurent Fagni, Magali Olivier, Mireille Lafon-Cazal, and Joël Bockaert</td>
</tr>
<tr>
<td>1248</td>
<td>Cholinergic Inhibition of Slow Delayed-Rectifier K(^+) Current in Guinea Pig Sino-atrial Node Is Not Mediated by Muscarinic Receptors</td>
<td>Lisa C. Freeman and Robert S. Kass</td>
</tr>
<tr>
<td>1255</td>
<td>Effects of Interleukin-1(\alpha) on DNA Repair in Human Ovarian Carcinoma (NIH:OVCAR-3) Cells: Implications in the Mechanism of Sensitization of Cis-Diamminedichloroplatinum(II)</td>
<td>M. Nabil Benchekroun, Ricardo Parker, Meenakshi Dabholkar, Eddie Reed, and Birandra K. Sinha</td>
</tr>
<tr>
<td>1261</td>
<td>Subject Index for Volume 47</td>
<td></td>
</tr>
<tr>
<td>1266</td>
<td>Author Index for Volume 47</td>
<td></td>
</tr>
</tbody>
</table>