Contents

ACCELERATED COMMUNICATIONS

883 Short-Chain Ceramide-1-phosphates Are Novel Stimulators of DNA Synthesis and Cell Division: Antagonism by Cell-Permeable Ceramides

Antonio Gomez-Muñoz, Patricia A. Duffy, Ashley Martin, Lori O'Brien, Hoe-Sup Byun, Robert Bittman, and David N. Brindley

ARTICLES

890 Activation of Metabotropic Glutamate Receptors Protects Cultured Neurons Against Apoptosis Induced by β-Amyloid Peptide

A. Copani, V. Bruno, G. Battaglia, G. Leanza, R. Pellitteri, A. Russo, S. Stanzani, and P. Nicoletti

898 Altered Topoisomerase I and II Activities in Suramin-Resistant Lung Fibrosarcoma Cells

Sophie Lelièvre, Youssef Benchokroun, and Annette Kragh Larsen

907 Camptothecin Induction of a Time- and Concentration-Dependent Decrease of Topoisomerase I and Its Implication in Camptothecin Activity

David R. Beidler and Yung-Chi Cheng

915 Regulation of Rat 5-Hydroxytryptamine Type 2 Receptor Gene Activity: Identification of Cis Elements that Mediate Basal and 5-Hydroxytryptamine-Dependent Gene Activation

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

923 Vasoactive Intestinal Peptide Elevates Pinealocyte Intracellular Calcium Concentrations by Enhancing Influx: Evidence for Involvement of a Cyclic GMP-Dependent Mechanism

Nicolas C. Schaad, Jiri Vanecek, Ignacio R. Rodriguez, David C. Klein, Lynne Holtzclaw, and James T. Russell

Continued
CONTENTS (cont’d)

934 Catalytic Properties of NAD(P)H:Quinone Acceptor Oxidoreductase: Study Involving Mouse, Rat, Human, and Mouse-Rat Chimeric Enzymes

Shiuan Chen, Richard Knox, Alexander D. Lewis, Frank Friedlos, Paul Workman, Paulis S. K. Deng, Maisie Fung, Donna Ebenstein, Kebin Wu, and Ta-Ming Tsai

940 Suppression of the Constitutive Expression of Cytochrome P-450 2C11 by Cytokines and Interferons in Primary Cultures of Rat Hepatocytes: Comparison with Induction of Acute-Phase Genes and Demonstration that CYP2C11 Promoter Sequences Are Involved in the Suppressive Response to Interleukins 1 and 6

Jin-Qiang Chen, Anders Ström, Jan-åke Gustafsson, and Edward T. Morgan

948 GTP Depletion Induced by IMP Dehydrogenase Inhibitors Blocks RNA-Primed DNA Synthesis

Carlo V. Catapano, Jennifer S. Dayton, Beverly S. Mitchell, and Daniel J. Fernandes

956 Photoaffinity-Labeled Ligand Binding Domains on Dopamine Transporters Identified by Peptide Mapping

Roxanne A. Vaughan

965 Interaction of Dolastatin 10 with Tubulin: Induction of Aggregation and Binding and Dissociation Reactions

Ruoli Bai, George F. Taylor, Jean M. Schmidt, Michael D. Williams, John A. Kepler, George R. Pettit, and Ernest Hamel

977 Cloning of the Human α₁β-Adrenergic Receptor and Inducible Expression of Three Human Subtypes in SK-N-MC Cells

Timothy A. Esbenshade, Akira Hirasawa, Gozoh Tsujimoto, Teruo Tanaka, Junichi Yano, Kenneth P. Minneman, and T. J. Murphy

986 Investigation of the Mechanism of Higher Order Chromatin Fragmentation Observed in Drug-Induced Apoptosis

Helen M. Beere, Christine M. Chresta, Ali Alejo-Herberg, Andrzej Skladanowski, Caroline Dive, Annette Kragh Larsen, and John A. Hickman

997 G, Is Involved in Ethanol Inhibition of L-Type Calcium Channels in Undifferentiated but Not Differentiated PC-12 Cells

Debra Mullikin-Kilpatrick, Nitin D. Mehta, John D. Hildebrandt, and Steven N. Treistman

1006 Flufenamic and Tolfenamic Acids Inhibit Calcium Influx in Human Polymorphonuclear Leukocytes

Hannu Kankaanranta and Eeva Moilanen

1014 Blockade of Capacitive Ca²⁺ Influx by Cl⁻ Channel Blockers Inhibits Secretion from Rat Mucosal-Type Mast Cells

M. Reinsprecht, M. H. Rohn, R. J. Spadinger, I. Pecht, H. Schindler, and C. Romanin

Continued
CONTENTS (cont’d)

1021 Metabolism and Cytotoxicity of Propyl Gallate in Isolated Rat Hepatocytes: Effects of a Thiol Reductant and an Esterase Inhibitor

1028 Free Radical Adducts in the Bile of Rats Treated Chronically with Intragastric Alcohol: Inhibition by Destruction of Kupffer Cells

1035 k-Opioid Receptor Activates an Inwardly Rectifying K+ Channel by a G Protein-Linked Mechanism: Coexpression in Xenopus Oocytes

1041 Ca2+ Channel and Adenylyl Cyclase Modulation by Cloned µ-Opioid Receptors in GH3 Cells

1050 [3H]SR 48692, the First Nonpeptide Neurotensin Antagonist Radioligand: Characterization of Binding Properties and Evidence for Distinct Agonist and Antagonist Binding Domains on the Rat Neurotensin Receptor

1057 Metabotropic Glutamate Receptors Negatively Coupled to Adenylate Cyclase Inhibit N-Methyl-d-aspartate Receptor Activity and Prevent Neurotoxicity in Mesencephalic Neurons In Vitro

1065 Residue 78 in the Second Transmembrane Domain of the Neurokinin-1 Receptor Is Important in Coupling High Affinity Agonist Binding to Multiple Second Messenger Responses

1072 Arabinosyl-2-fluoroadenine Augments Cisplatin Cytotoxicity and Inhibits Cisplatin-DNA Cross-link Repair

1080 Tissue-Specific Pharmacology of Testosterone and 5α-Dihydrotestosterone Analogues: Characterization of a Novel Canine Liver Androgen-Binding Protein