Contents

ACCELERATED COMMUNICATIONS

1 Novel Action of Nitric Oxide as Mediator of N-Methyl-D-aspartate-Induced Phosphatidylinositol Hydrolysis in Neonatal Rat Cerebellum

Sheryl S. Smith and Jun Li

6 Tetrahydrobiopterin Is Required for Cytokine-Induced Nitric Oxide Production in a Murine Macrophage Cell Line (RAW 264)

Naoki Sakai, Seymour Kaufman, and Sheldon Milstien

11 A Single Conservative Amino Acid Substitution in the Reverse Transcriptase of Human Immunodeficiency Virus-1 Confers Resistance to (+)-(5S)-4,5,6,7-Tetrahydro-5-methyl-6-(3-methyl-2-butenyl)imidazo[4,5,1-jk][1,4]benzodiazepin-2(1H)-thione (TIBO R82150)

John W. Mellors, Guang-jin Im, Enzo Tramontano, Susan R. Winkler, Daniel J. Medina, Ginger E. Dutschman, Hengameh Z. Bazmi, Giovanna Piras, Charles J. Gonzalez, and Yung-chi Cheng

ARTICLES

17 Solubilization of the Cannabinoid Receptor from Rat Brain and Its Functional Interaction with Guanine Nucleotide-Binding Proteins

Devin B. Houston and Allyn C. Howlett

23 Molecular Characterization of α2-Adrenergic Receptors Regulating Intestinal Electrolyte Transport

Keith R. Hildebrand, Gaofeng Lin, Michael P. Murtaugh, and David R. Brown

30 Crystal-Induced Protein Tyrosine Phosphorylation in Neutrophils and the Effect of a Tyrosine Kinase Inhibitor on Neutrophil Responses

Helen M. Burt, John K. Jackson, Peter Dryden, and Hassan Salari

continued
CONTENTS (cont'd)

37  High-Dose Chemotherapy-Induced Platelet Defect: Inhibition of Platelet Signal Transduction Pathways  
Linda Karolak, Anita Chandra, Wasiuddin Khan, Ben Marks, William P. Petros, William P. Peters, Charles S. Greenberg, and Yusuf A. Hannun

45  Cellular Pharmacology of Phosphorothioate Homooligodeoxynucleotides in Human Cells  
Wen-Yi Gao, Christy Storm, William Egan, and Yung-chi Cheng

51  Estradiol Induction of Rhodamine 123 Efflux and the Multidrug Resistance Pump in Rat Pituitary Tumor Cells  
Erik M. Jancis, Rocco Carbone, Karen J. Loechner, and Priscilla S. Dannies

57  Effects of 3'-Azido-3'-deoxythymidine Metabolites on Simian Virus 40 Origin-Dependent Replication and Heteroduplex Repair in HeLa Cell Extracts  
Katarzyna Bebenek, David C. Thomas, John D. Roberts, Fritz Eckstein, and Thomas A. Kunkel

64  Modulation of Tumor Necrosis Factor-α, Interleukin-1β, Interleukin-6, Interleukin-8, and Granulocyte/Macrophage Colony-Stimulating Factor Expression in Human Monocytes by an Endogenous Anxiogenic Benzodiazepine Ligand, Triakontatetranpeptide: Evidence for a Role of Prostaglandins  
Véronique Taupin, Jean Gogusev, Béatrice Descamps-Latscha, and Flora Zavala

70  Sequence Analysis and Expression of the cDNA for the Phenol-Sulfating Form of Human Liver Phenol Sulfotransferase  
Teresa W. Wilborn, Kathleen A. Comer, Thomas P. Dooley, Ilene M. Reardon, Robert L. Heinrikson, and Charles N. Falany

78  Hallucinogenic Receptor Models: Interaction of Imidazolium Chloride with Amphetamine Analogs  
Alexandros Makriyannis, Christine M. DiMeglio, Adrie P. DeJong, and Sonya El-Khateeb

84  Repeated Administration of SR 46349B, A Selective 5-Hydroxytryptamine2 Antagonist Up-regulates 5-Hydroxytryptamine2 Receptors in Mouse Brain  

90  Muscarinic Receptor-Mediated Inhibition of GDP-Activated Adenylyl Cyclase Suggests a Direct Interaction of Inhibitory Guanine Nucleotide-Binding Proteins and Adenylyl Cyclase  
F. Niroomand, M. Bangert, C. Philipps, and B. Rauch

96  Calcium Channel Current in Cultured Rat Mesangial Cells  
Matomo Nishio, Hirokazu Tsukahara, Masahiro Hiraoka, Masakatsu Sudo, Shigeru Kigoshi, and Ikunobu Muramatsu

Continued
CONTENTS (cont’d)

100  Zinc Modulation of Drug Binding, Cocaine Affinity States, and Dopamine Uptake on the Dopamine Uptake Complex

Eric K. Richfield

109  Human Immunodeficiency Virus Type 1-Specific [2',5'-Bis-O-(tert-butyldimethylsilyl)-β-d-ribofuranosyl]-3'-spiro-5''-(4''-amino-1'',2''-oxathiole-2'',2''-dioxide)-Purine Analogues Show a Resistance Spectrum that Is Different from that of the Human Immunodeficiency Virus Type I-Specific Non-nucleoside Analogues

Jan Balzarini, Sonsoles Velazquez, Ana San-Felix, Anna Karlsson, Maria-Jesus Perez-Perez, Maria-Jose Camarasa, and Erik De Clercq

115  4-Methylpyrazole Inhibits Fatty Acyl Coenzyme A Synthetase and Diminishes Catalase-Dependent Alcohol Metabolism: Has the Contribution of Alcohol Dehydrogenase to Alcohol Metabolism Been Previously Overestimated?

Blair U. Bradford, Donald T. Forman, and Ronald G. Thurman

120  Identification and Characterization of the Cytochrome P450 Enzymes Involved in N-Dealkylation of Propafenone: Molecular Base for Interaction Potential and Variable Disposition of Active Metabolites

Sigrid Botsch, Jean-Charles Gautier, Philippe Beaune, Michel Eichelbaum, and Heyo K. Kroemer