CONTENTS

COLIN H. MACPHEE AND ALAN H. DRUMMOND. Thyrotropin-Releasing Hormone Stimulates Rapid Breakdown of Phosphatidylinositol 4,5-bisphosphate and Phosphatidylinositol 4-phosphate in GH3 Pituitary Tumor Cells ........................................... 193

ALAN H. DRUMMOND, MARK BUSFIELD, AND COLIN H. MACPHEE. Thyrotropin-Releasing Hormone-Stimulated [3H]Inositol Metabolism in GH3 Pituitary Tumor Cells: Studies with Lithium ......................................................... 201

DANIEL HOYER, ELWOOD E. REYNOLDS, AND PERRY B. MOLINOFF. Agonist-Induced Changes in the Properties of Beta-Adrenergic Receptors on Intact S49 Lymphoma Cells: Time-Dependent Changes in the Affinity of the Receptor for Agonists ........................................... 209

SIDNEY W. POSTMA AND WILLIAM A. CATTERALL. Inhibition of Binding of [3H]Batrochotoxin A 20-α-Benzate to Sodium Channels by Local Anesthetics ......................................................... 219

MAX WILLOW, ELIZABETH A. KUENZEL, AND WILLIAM A. CATTERALL. Inhibition of Voltage-Sensitive Sodium Channels in Neuroblastoma Cells and Synaptosomes by the Anticonvulsant Drugs Diphenylhydantoin and Carbamazepine ......................................................... 228

ROBERT J. GOULD, KENNETH M. M. MURPHY, AND SOLOMON H. SYNDER. Tissue Heterogeneity of Calcium Channel Antagonist Binding Sites Labeled by [3H]Nitrendipine ......................................................... 235

JAN S. ROSENBAUM, NICHOLAS H. G. HOLFORD, MARK L. RICHARDS, RASHID A. AMAN, AND WOLFGANG SADDE. Discrimination of Three Types of Opioid Binding Sites in Rat Brain in Vivo .................................................................................. 242

JACOB M. HILLER, LLOYD M. ANGEL, AND ERIC J. SIMON. Characterization of the Selective Inhibition of the Delta Subclass of Opioid Binding Sites by Alcohol ......................................................... 249

KENNETH BAROVSKY, CAROLYN PEDONE, AND GARY BROOKER. Distinct Mechanisms of Forskolin-Stimulated Cyclic AMP Accumulation and Forskolin-Potentiated Hormone Responses in C6-2B Cells ......................................................... 256

FRANCOISE MIOT, CHRISTOPHE ERNEUX, JACK N. WELLS, AND JACQUES E. DUMONT. The Effects of Alkylated Xanthines on Cyclic AMP Accumulation in Dog Thyroid Slices Exposed to Carbamylcholine ......................................................... 261

PAUL J. SILVER AND JAMES T. STULL. Phosphorylation of Myosin Light Chain and Phosphorylase in Tracheal Smooth Muscle in Response to KCl and Carbachol ......................................................... 267


L. J. SLIEKER AND S. J. BENKOVIC. Inhibition of HKSV28 Cell Growth by 5,11-Methenyltetrahydrohomofolate .................................................................................. 294

SONDRA H. BERGER AND MAIRE T. HAKALA. Relationship of dUMP and Free FdUMP Pools to Inhibition of Thymidylate Synthase by 5-Fluorouracil .................................................................................. 303

PAUL R. ORTIZ DE MONTELLANO, RALPH A. STEARNS, AND KEVIN C. LANGRY. The Allylisopropylacetamide and Novonal Prosthetic Heme Adducts .................................................................................. 310

Continued
CONTENTS (cont’d)

LANCE R. POHL, RICHARD D. SCHULICK, ROBERT J. HIGET, AND JOHN W. GEORGE. Reductive-Oxygenation Mechanism of Metabolism of Carbon Tetrachloride to Phosgene by Cytochrome P-450 ........................................................................................................... 318

DONALD W. KUFE, RALPH WEICHSELBAUM, E. MICHAEL EGAN, WILLIAM DAHLBERG, AND ROBERT J. FRAM. Lethal Effects of 1-β-D-Arabinofuranosylcytosine Incorporation into Deoxyribonucleic Acid during Ultraviolet Repair ......................................................... 322

LAURA SAIANI, HIROYASU KAGEYAMA, BIANCA M. CONTI-TRONCONI, AND ALESSANDRO GUIDOTTI. Purification and Characterization of a Bungarotoxin Polypeptide Which Blocks Nicotinic Receptor Function in Primary Culture of Adrenal Chromaffin Cells ........................................... 327

ERRATUM ........................................................................................................................................ 335

ANNOUNCEMENT ............................................................................................................................... 336