CONTENTS

DENISE ROBINSON AND RICHARD McGEE, JR. Agonist-Induced Regulation of the Neuronal Nicotinic Acetylcholine Receptor of PC12 Cells ................................. 409

YOEL KLOOG AND MORDECHAI SOKOLOVSKY. Bisquaternary Pyridinium Oximes as Allosteric Inhibitors of Rat Brain Muscarinic Receptors .......................... 418

ALLYN C. HOWLETT. Cannabinoid Inhibition of Adenylate Cyclase: Biochemistry of the Response in Neuroblastoma Cell Membranes ..................................... 429

JIMMY D. PAGE, I. B. WILSON, AND ISRAEL SILMAN. Butyrylcholinesterase: Inhibition by Arsenite, Fluoride, and Other Ligands, Cooperativity in Binding .................. 437

BEAT U. RAESS, DONNA M. RECORD, AND GODFREY TUNNICLIFF. Interaction of Phenylglyoxal with the Human Erythrocyte (Ca²⁺ + Mg²⁺)-ATPase: Evidence for the Presence of an Essential Arginyl Residue ........................................ 444

WERNER LILIENBLUM, BARBARA S. BOCK-HENNIG, AND KARL WALTER BOCK. Protection against Toxic Redox Cycles between Benzo(a)pyrene-3,6-quinone and Its Quinol by 3-Methylcholanthrene-Inducible Formation of the Quinol Mono- and Diglucuronide . . . 451

GERALD S. MARKS, D. T. ALLEN, C. T. JOHNSTON, E. P. SUTHERLAND, K. NAKATSU, AND R. A. WHITNEY. Suicidal Destruction of Cytochrome P-450 and Reduction of Ferrochelatase Activity by 3,5-Diethoxycarbonyl-1,4-dihydro-2,4,6-trimethylpyridine and Its Analogues in Chick Embryo Liver Cells ................................................. 459

F. AVBELJ AND D. HADŽI. Potential Energy Functions and the Role of the Conformational Entropy of Clonidine-like Imidazolidines in Determining Their Affinity for α-Adrenergic Receptors .................................................................................. 466

EDWARD T. MORGAN, CATRIONA MACGEOCH, AND JAN-ÅKE GUSTAFSSON. Sexual Differentiation of Cytochrome P-450 in Rat Liver: Evidence for a Constitutive Isozyme as the Male-Specific 16α-Hydroxylase .................................. 471

ADRIENNE ADAMS, BEVYN JARROTT, BRYAN C. ELMES, WILLIAM A. DENNY, AND LAURENCE P. G. WAKELIN. Interaction of DNA-Intercalating Antitumor Agents with Adrenoceptors .................................................. 480

Erratum .................................................................................. 492