CONTENTS

ACCELERATED COMMUNICATION

STANLEY A. THAYER, SHAWN N. MURPHY, AND RICHARD J. MILLER. Widespread Distribution of Dihydropyridine-Sensitive Calcium Channels in the Central Nervous System 505

ARTICLES


MICHAEL J. OLSON, JEFFREY A. HANLER, AND RONALD G. THURMAN. Mechanism of Zone-Specific Hepatic Steatosis Caused by Valproate: Inhibition of Ketogenesis in Periportal Regions of the Liver Lobule 520

L. NORONHA-BLOB, V. C. LOWE, W. J. KINNIER, AND D. C. U'PRICHARD. N-Coupled Receptors in Cultured Neural Hybrid Cells: Cell Specificity for Dibutyryl Cyclic AMP-Induced Down-Regulation But Not Morphological Differentiation 526

SYLVAIN MELOCHE, HUY ONG, MARC CANTIN, AND ANDRÉ DE LEAN. Molecular Characterization of the Solubilized Atrial Natriuretic Factor Receptor from Bovine Adrenal Zona Glomerulosa 537


MARSHALL L. MICCHENER, JAMES K. GIERSE, RAMNATH SEETHARAM, KAM F. FOK, PETER O. OLINS, MARILYN S. MAI, AND PHILIP NEEDLEMAN. Proteolytic Processing of Atriopeptin Prohormone In Vivo and In Vitro 552

S. KOKUBUN, B. PROD'HOM, C. BECKER, H. PORZIG, AND H. REUTER. Studies on Ca Channels in Intact Cardiac Cells: Voltage-Dependent Effects and Cooperative Interactions of Dihydropyridine Enantiomers 558

MASUMI YAMAKAWA, KIYOSHI EZUMI, MOTO SHIRO, HIROSHI NAKAI, SUSUMU KAMATA, TAKEAKI MATSUI, AND NOBUHIRO HAGA. Relationships of the Molecular Structure of Aldosterone Derivatives with Their Binding Affinity for Mineralocorticoid Receptor 566


JUAN CARLOS G. MARVIZÓN, MARGARITA GARCÍA CALVO, JESÚS VAZQUEZ, FEDERICO MAYOR, JR., ANA RUÍZ GÓMEZ, FERNANDO VALDIVIESO, AND JESÚS BENAVIDES. Activation and Inhibition of H-Strychnine Binding to the Glycine Receptor by Eccles' Anions: Modulatory Effects of Cations 578

DANIEL J. KELLEHER, LECH W. DUDYCZ, GEORGE E. WRIGHT, AND GARY L. JOHNSON. Ability of Guanine Nucleotide Derivatives to Bind and Activate Bovine Transducin 585

RAYMOND F. KAUFFMAN, V. GAIL CROWE, BARBARA G. UTERBACK, AND DAVID W. ROBERTSON. LY195115: A Potent, Selective Inhibitor of Cyclic Nucleotide Phosphodiesterase Located in the Sarcoplasmic Reticulum 590

Continued