CONTENTS

ACCELERATED COMMUNICATION

JOHN ELLIS AND MARGARET SEIDENBERG. Gallamine experts biphasic allosteric effects at muscarinic receptors	173
ARTICLES	
JAN M. WOYNAROWSKI, MARY MCHUGH, RITA D. SIGMUND, AND TERRY A. BEERMAN. Modulation of topoisomerase II catalytic activity by DNA minor groove binding agents distamycin, Hoechst 33258, and 4',6-diamidine-2-phenylindole	177
CYNTHIA CZAJKOWSKI AND DAVID H. FARB. Identification of an intracellular pool of γ -aminobutyric acid _A /-benzodiazepine receptors en route to the cell surface of brain neurons in culture	183
A. H. LEWIN, B. R. DE COSTA, K. C. RICE, AND P. SKOLNICK. $meta$ - and $para$ -Isothiocyanato- t -butylbicycloorthobenzoate: Irreversible ligands of the γ -aminobutyric acid-regulated chloride ionophore	189
STEPHEN K. FISHER, LISA M. DOMASK, AND RICHARD M. ROLAND. Muscarinic receptor regulation of cytoplasmic Ca ²⁺ concentrations in human SK-N-SH neuroblastoma cells: Ca ²⁺ requirements for phospholipase C activation	195
MAUREEN N. GANNON, LINDSAY B. HOUGH, AND HAREL WEINSTEIN. A metactoid sensitization model to describe multiple receptors linked to a common response: Application to histamine receptors coupled to [3H]cyclic AMP accumulation in guniea pig cortex	205
TERRY P. KENAKIN AND PAUL H. MORGAN. Theoretical effects of single and multiple tranducer receptor coupling proteins on estimates of the relative potency of agonists	214
K. L. SWANSON, Y. ARACAVA, F. J. SARDINA, H. RAPOPORT, R. S. ARONSTAM, AND E. X. ALBUQUERQUE. N-Methylanatoxinol isomers: Derivatives of the agonist (+)-anatoxin-a block the nicotinic acetylcholine receptor ion channel	223
FEDERICO GAGO, CHRISTOPHER A. REYNOLDS, AND W. GRAHAM RICHARDS. The binding of nonintercalative drugs to alternating DNA sequences	232
K. P. R. GARTLAND, F. W. BONNER, AND J. K. NICHOLSON. Investigations into the biochemical effects of region-specific nephrotoxins	242
NOHAD GRESH, BERNARD PULLMAN, FEDERICO ARCAMONE, MILENA MENOZZI, AND ROBERTO TONANI. Joint experimental and theoretical investigation of the comparative DNA binding affinities of intercalating anthracycline derivatives	251
MODESTO OROZCO, ENRIC I. CANELA, AND RAFAEL FRANCO. Theoretical study of the protonation and tautomerization of adenosine, formycin, and their 2-NH ₂ and 2-F derivatives: Functional implications in the mechanism of reaction of adenosine deaminese	257

MOLECULAR PHARMACOLOGY (ISSN 0026-895x) is an official publication of The American Society for Pharmacology and Experimental Therapeutics and is published monthly by Williams & Wilkins, 428 East Preston Street, Baltimore, MD 21202-3993. Price per year: USA individual rate \$80; Japan \$145 (includes air freight); all other countries, surface mail \$105. USA institutional rate \$175; Japan \$240 (includes air freight); all other countries, surface mail \$200. (Prices subject to change.) All subscription orders should be addressed to Molecular Pharmacology, 428 East Preston Street, Baltimore, MD 21202-3993.

Second Class Postage paid at Baltimore, MD, and at additional mailing offices. POSTMASTER: Send address changes to MOLECULAR PHARMACOLOGY, 428 East Preston Street, Baltimore, MD 21202-3993.

Copyright © 1989 by The American Society for Pharmacology and Experimental Therapeutics.