CONTENTS OF VOLUME 14

Number 1, January 1978

To George I. Drummond: An Appreciation Alain Enjalbert, Sylvie Bourgoin, Michel Hamon, Joëlle Adrien, and	1
JOËL BOCKAERT. Postsynaptic Serotonin-Sensitive Adenylate Cyclase in the Central Nervous System. I. Development and Distribution of Serotonin and Dopamine-Sensitive Adenylate Cyclases in Rat and Guinea Pig Brain ALAIN ENJALBERT, MICHEL HAMON, SYLVIE BOURGOIN, AND JOËL BOCK-	2
AERT. Postsynaptic Serotonin-Sensitive Adenylate Cyclase in the Central Nervous System. II. Comparison with Dopamine- and Isoproterenol-Sensitive Adenylate Cyclases in Rat Brain	11
MARIE-FRANÇOISE VESIN, LIEN DO KHAC, AND SIMONE HARBON. Modulation of Intracellular Adenosine Cyclic 3',5'-Monophosphate and Contractility of Rat Uterus by Prostaglandins and Polyunsaturated Fatty Acids	24
DAVID A. GREENBERG AND SOLOMON H. SNYDER. Pharmacological Properties of [3H]Dihydroergokryptine Binding Sites Associated with Alpha Noradrenergic Receptors in Rat Brain Membranes	38
GILLES M. B. FILLION, JEAN-CLAUDE ROUSSELLE, MARIE-PAULE FILLION, DOMINIQUE M. BEAUDOIN, MICHEL R. GOINY, JEAN-MICHEL DENIAU, AND JOSEPH J. JACOB. High-Affinity Binding of [3H]5-Hydroxytryptamine to Brain Synaptosomal Membranes: Comparison with [3H]Lysergic Acid Diethylamide	30
Binding T. W. MITTAG, A. TORMAY, AND T. MASSA. Heterogeneity of Acetylcholine Re-	50
ceptors in Denervated Muscle: Interactions of Receptors with Immunoglobulin from Patients with Myasthenia Gravis	60
RABI SIMANTOV, STEVEN R. CHILDERS, AND SOLOMON H. SNYDER. [3H]Opiate Binding: Anomalous Properties in Kidney and Liver Membranes	69
ROBERT E. HRUSKA, ANTE PADJEN, RUBIN BRESSLER, AND HENRY I. YAMA- MURA. Taurine: Sodium-Dependent, High-Affinity Transport into Rat Brain Synaptosomes	77
THOMAS HONEYMAN, PHILIP MERRIAM, AND FREDERIC S. FAY. The Effects of Isoproterenol on Adenosine Cyclic 3',5'-Monophosphate and Contractility in Isolated Smooth Muscle Cells	86
MICHEL HAMON, SYLVIE BOURGOIN, F. HÉRY, AND G. SIMONNET. Activation of Tryptophan Hydroxylase by Adenosine Triphosphate, Magnesium, and Cal-	99
D. L. GARRISON, E. X. ALBUQUERQUE, J. E. WARNICK, J. W. DALY, AND B. WITKOP. Antagonism of Carbamylcholine-Induced Depolarization by Ba-	
trachotoxin and Veratridine Virendra K. Sharma and Shailesh P. Banerjee. Specific [3H]Ouabain Binding	111
to Rat Heart and Skeletal Muscle: Effects of Thyroidectomy EFRAÍN TORO-GOYCO, M. B. RODRÍGUEZ, AND A. M. PRESTON. On the Action of	122
Δ ⁹ -Tetrahydrocannabinol as an Inhibitor of Sodium- and Potassium-Dependent Adenosine Triphosphatase	130
MASARU KUREBE. Interaction of Dibucaine and Calcium Ion on a Calcium Pump Reconstituted from Defined Components of Intestinal Brush Border	138
RUTH E. BILLINGS AND ROBERT E. McMahon. Microsomal Biphenyl Hydroxylation: the Formation of 3-Hydroxybiphenyl and Biphenyl Catechol	145
PETER KÖHLER AND ROLAND BACHMANN. The Effects of the Antiparasitic Drugs Levamisole, Thiabendazole, Praziquantel, and Chloroquine on Mitochondrial	155
Electron Transport of Muscle Tissue from Ascaris suum Jerome A. Roth. Inhibition of Human Brain Type B Monoamine Oxidase by Tricyclic Psychoactive Drugs	155 164
EVA KIRSTEN, MANOHAR L. SHARMA, AND ERNEST KUN. Molecular Toxicology of (-)-erythro-Fluorocitrate: Selective Inhibition of Citrate Transport in Mito-	
chondria and the Binding of Fluorocitrate to Mitochondrial Proteins ROBERT A. NEWMAN AND KENNETH R. CUTRONEO. Glucocorticoids Selectively Doggass the Synthesis of Hydroxyleted Colleges Bentides	172
Decrease the Synthesis of Hydroxylated Collagen Peptides	185

 PAUL P. TROTTA, MARY P. AHLAND, GEORGE F. BROWN, AND M. EARL BALIS. Studies on the Effects of Infusion of Enzyme Inhibitors on Mouse Adenosine Deaminase D. S. ROSENBLATT, V. M. WHITEHEAD, M. M. DUPONT, MJ. VUCHICH, AND N. VERA. Synthesis of Methotrexate Polyglutamates in Cultured Human Cells 	199 210
SHORT COMMUNICATIONS	
ELEANOR ROGAN AND ERCOLE CAVALIERI. Differences between Nuclear and Microsomal Cytochrome P-450 in Uninduced and Induced Rat Liver. ELENA BUSSOLATI, RENATA BIDOGLIA, AND NICA BORGESE. The Inhibitory Effect of Aurintricarboxylic Acid on the Attachment of Ribosomes to Microsomal Membranes in Vitro	215 220
ERRATUM ANNOUNCEMENT	225 226
Number 2, March 1978	
MARGUERITE LUCAS, JACQUES HANOUNE, AND JOËL BOCKAERT. Chemical Modification of the <i>Beta</i> Adrenergic Receptors Coupled with Adenylate Cyclase by Disulfide Bridge-Reducing Agents	227
EVA H. HU AND J. CRAIG VENTER. Adenosine Cyclic 3',5'-Monophosphate Concentrations during the Positive Inotropic Response of Cat Cardiac Muscle to	
Polymeric Immobilized Isoproterenol MICHAEL R. HANLEY AND L. L. IVERSEN. Muscarinic Cholinergic Receptors in	237
Rat Corpus Striatum and Regulation of Guanosine Cyclic 3',5'-Monophosphate HANNS MÖHLER AND TOSHIKAZU OKADA. Properties of γ-Aminobutyric Acid	246
Receptor Binding with (+)-[³ H]Bicuculline Methiodide in Rat Cerebellum MICHAEL A. GORDON, DONALD E. CARPENTER, AND IRWIN B. WILSON. The	256
Turnover Numbers of Acetylcholinesterase Forms VITOLIS E. VENGRIS, PAULA M. PITHA, LYLE L. SENSENBRENNER, AND JOSEF	266
PITHA. Polymeric Drugs: Direct Compared with Indirect Inhibition of Leukemia Virus Replication in Mice	271
DAN B. DAHLE, T. D. GRIFFITHS, AND J. G. CARPENTER. Inhibition of Deoxyribonucleic Acid Synthesis and Replicon Elongation in Mammalian Cells Exposed to Methyl Methanesulfonate	278
S. T. CROOKE, V. H. DUVERNAY, L. GALVAN, AND A. W. PRESTAYKO. Structure-Activity Relationships of Anthracyclines Relative to Effects on Macromolecular Syntheses	290
HORTENCIA ROSEMOND-HORNBECK AND M. G. NAIR. Transport and Inhibitory Activity of New Folate Analogues in HeLa Cells	299
OLAVI PELKONAN, ALAN R. BOOBIS, HARUHIKO YAGI, DONALD M. JERINA, AND DANIEL W. NEBERT. Tentative Identification of Benzo[a]pyrene Metabolite-Nucleoside Complexes Produced in Vitro by Mouse Liver Microsomes	306
ALEXANDER MILLER, III, MARILYN C. HENDERSON, AND DONALD R. BUHLER. Cytochrome P-450-Mediated Covalent Binding of Hexachlorophene to Rat Tissue Proteins	323
HERMAN MEISNER AND KENNETH NEET. Competitive Binding of Long-Chain Free Fatty Acids, Octanoate, and Chlorophenoxyisobutyrate to Albumin	337
W. D. Lust, H. J. Kupferberg, W. D. Yonekawa, J. K. Penry, J. V. Passonneau, and A. B. Wheaton. Changes in Brain Metabolites Induced by Convulsants	
or Electroshock: Effects of Anticonvulsant Agents PAULA H. STERN, EARL M. NESS, AND HECTOR F. DELUCA. Responses of Fetal Rat Bones to Solanum malacoxylon in Vitro: a Possible Explanation of Previous Paradoxical Results	347 357
Short Communications	
ROBERT A. LIPPER, SUSAN M. MACHKOVECH, JOHN C. DRACH, AND WILLIAM I. HIGUCHI. Inhibition of Drug Metabolism by a Prodrug: 9-β-D-Arabino-furanosyladenine 5'-Valerate as an Inhibitor of Adenosine Deaminase	366

LINDA JOY PIKE AND ROBERT J. LEFKOWITZ. Agonist-Specific Alterations in Receptor Binding Affinity Associated with Solubilization of Turkey Erythrocyte Membrane Beta Adrenergic Receptors	370
ROBERT J. LEFKOWITZ, DEBRA MULLIKIN, AND LEWIS T. WILLIAMS. A Desensitized State of the <i>Beta</i> Adrenergic Receptor Not Associated with High-Affinity Agonist Occupancy	376
Number 3, May 1978	
RICHARD W. OLSEN, MAHARAJ K. TICKU, AND THOMAS MILLER. Dihydropicrotoxinin Binding to Crayfish Muscle Sites Possibly Related to γ-Aminobu-	
tyric Acid Receptor-Ionophores Maharaj K. Ticku, Matt Ban, and Richard W. Olsen. Binding of [³H]α- Dihydropicrotoxinin, a γ-Aminobutyric Acid Synaptic Antagonist, to Rat Brain	381
Membranes Stephen J. Peroutka, David A. Greenberg, David C. U'Prichard, and Sol-	391
actions of [3H]Dihydroergokryptine in Calf Brain: Implications for a Two-Site	403
Model of Alpha Receptor Function LOUISE E. LEDUC, GARLAND R. MARSHALL, AND PHILIP NEEDLEMAN. Differentiation of Bradykinin Receptors and of Kininases with Conformational Ana-	403
logues of Bradykinin Erik De Clercq, Johan Descamps, Guang-Fu Huang, and Paul F.	413
Torrence. 5-Nitro-2'-deoxyuridine and 5-Nitro-2'-deoxyuridine 5'-Monophosphate: Antiviral Activity and Inhibition of Thymidylate Synthetase in Vivo Craig V. Byus, Gary R. Klimpel, David O. Lucas, and Diane Haddock Russell. Ornithine Decarboxylase Induction in Mitogen-Stimulated Lym-	422
phocytes is Related to the Specific Activation of Type I Adenosine Cyclic 3',5'-Monophosphate-Dependent Protein Kinase B. I. Sahai Srivastava, Richard A. DiCioccio, K. L. Rinehart, Jr., and L. H. Li. Preferential Inhibition of Terminal Deoxynucleotidyltransferase Activity	431
among Deoxyribonucleic Acid Polymerase Activities of Leukemic and Normal Cells by Geldanamycin, Streptoval C, Streptovarone, and Dapmavarone Reiko Natsuki, Robert Hitzemann, and Horace Loh. Effects of Morphine on the Incorporation of [14C]Serine into Phospholipid via the Base-Exchange	442
Reaction JEROME S. PUSKIN AND THEA MARTIN. Effects of Anesthetics on Divalent Cation	448
Binding and Fluidity of Phosphatidylserine Vesicles C. J. MASTRANGELO, J. R. TRUDELL, H. N. EDMUNDS, AND E. N. COHEN. Effect of Clinical Concentrations of Halothane on Phospholipid-Cholesterol Mem-	454
brane Fluidity R. C. Bhalla, R. C. Webb, D. Singh, T. Ashley, and T. Brock. Calcium Fluxes, Calcium Binding, and Adenosine Cyclic 3',5'-Monophosphate-Dependent Pro-	463
tein Kinase Activity in the Aorta of Spontaneously Hypertensive and Kyoto Wistar Normotensive Rats ROLAND D. CIARANELLO. Regulation of Phenylethanolamine N-Methyltransferase	468
Synthesis and Degradation. I. Regulation by Rat Adrenal Glucocorticoids ROLAND D. CIARANELLO, DONA L. WONG, AND DAVID M. BERENBEIM. Regulation	478
of Phenylethanolamine N-Methyltransferase Synthesis and Degradation. II. Control of the Thermal Stability of the Enyme by an Endogenous Stabilizing	400
Factor D. R. THAKKER, H. YAGI, R. E. LEHR, W. LEVIN, M. BUENING, A. Y. H. LU, R. L. CHANG, A. W. WOOD, A. H. CONNEY, AND D. M. JERINA. Metabolism of trans-9,10-Dihydroxy-9,10-dihydrobenzo[a]pyrene Occurs Primarily by Arylhy-	490
droxylation Rather than Formation of a Diol Epoxide M. ADLER, E. X. ALBUQUERQUE, AND F. J. LEBEDA. Kinetic Analysis of End Plate Currents Altered by Atropine and Scopolamine	502 514
Number 4, July 1978	
ALLYN C. HOWLETT, PAMELA M. VAN ARSDALE, AND ALFRED G. GILMAN. Efficiency of Coupling between the <i>Beta</i> Adrenergic Receptor and Adenylate Cyclase	531

BIE SHUNG TSAI AND ROBERT J. LEFKOWITZ. Agonist-Specific Effects of Monovalent and Divalent Cations on Adenylate Cyclase-Coupled Alpha Adrenergic	
Receptors in Rabbit Platelets	540
PAUL A. INSEL AND LLOYD M. STOOLMAN. Radioligand Binding to Beta Adrenergic Receptors of Intact Cultured S49 Cells	549
J. CRAIG VENTER. Cardiac Sites of Catecholamine Action: Diffusion Models for Soluble and Immobilized Catecholamine Action on Isolated Cat Papillary	500
Muscles Roberts S. Aronstam, Leo G. Abood, and Wayne Hoss. Influence of Sulfhydryl	562
Reagents and Heavy Metals on the Functional State of the Muscarinic Acetyl- choline Receptor in Rat Brain	575
VINA SPIEHLER, ALAN S. FAIRHURST, AND LOWELL O. RANDALL. The Interaction	
of Phenoxybenzamine with the Mouse Brain Opiate Receptor Tomas de Paulis, Diana Kelder, and Svante B. Ross. On the Topology of the Norepinephrine Transport Carrier in Rat Hypothalamus. The Site of Action of	587
Tricyclic Uptake Inhibitors T. P. KENAKIN AND J. W. BLACK. The Pharmacological Classification of Practolol	596
and Chloropractolol	607
ATSUNOBU YODA AND SHIZUKO YODA. Influence of pH on the Interaction of Cardiotonic Steroids with Sodium- and Potassium-Dependent Adenosine Tri-	20.4
phosphatase DOYLE G. GRAHAM. Oxidative Pathways for Catecholamines in the Genesis of	624
Neuromelanin and Cytotoxic Quinones	633
Doyle G. Graham, Sylvia M. Tiffany, William R. Bell, Jr., and William F.	
GUTKNECHT. Autoxidation versus Covalent Binding of Quinones as the Mechanism of Toxicity of Dopamine, 6-Hydroxydopamine, and Related Compounds	
toward C1300 Neuroblastoma Cells in Vitro	644
Amine N-Oxides by Cytochrome P-450. Mechanism of the Stimulatory Effect	
of Flavins and Methyl Viologen RONALD P. MASON, FRANCIS J. PETERSON, AND JORDAN L. HOLTZMAN. Inhibition	654
of Azoreductase by Oxygen. The Role of the Azo Anion Free Radical Metabolite	
in the Reduction of Oxygen to Superoxide KENNETH W. RENTON, LAUREL B. DELORIA, AND GILBERT J. MANNERING. Effects	665
of Polyriboinosinic acid · polyribocytidylic acid and a Mouse Interferon Prepa-	
ration on Cytochrome P-450-Dependent Monooxygenase Systems in Cultures of Primary Mouse Hepatocytes	672
HERMAN A. J. SCHUT, PETER J. WIRTH, AND SNORRI S. THORGEIRSSON. Mutagenic	··-
Activation of N-Hydroxy-2-acetylaminofluorene in the Salmonella Test System: the Role of Deacetylation by Liver and Kidney Fractions from Mouse and	
Rat	682
MARIO BRUFANI, LUCIANO CELLAI, SILVIO CERRINI, WALTER FEDELI, AND ALESSANDRO VACIAGO. Structure-Activity Relationships in the Ansamycins: the	
Crystal Structure of Tolypomycinone AMRAN SAMUNI AND AMATZYA Y. MEYER. Conformation Patterns in Penicillins	693
and the Penicillin-Penicillinase Interaction	704
DEMETRIUS TSERNOGLOU, GREGORY A. PETSKO, AND RICHARD A. HUDSON. Structure and Function of Snake Venom Curarimimetic Neurotoxins	710
SHORT COMMUNICATION	
PETER W. F. FISCHER, JANET K. STEPHENS, AND G. S. MARKS. Effect of	
Varying the Insulin Glucagon Ratio on Porphyrin Biosynthesis in Chick Embryo Liver Cells	717
Announcement	722
Number 5, September 1978	
N. J. M. BIRDSALL, A. S. V. BURGEN, AND E. C. HULME. The Binding of Agonists to Brain Muscarinic Receptors	723
E. C. HULME, N. J. M. BIRDSALL, A. S. V. BURGEN, AND P. MEHTA. The Binding of Antagonists to Brain Muscarinic Receptors	737

Wolfgang Burgermeister, William L. Klein, Marshall Nirenberg, and Bernhard Witkop. Comparative Binding Studies with Cholinergic Ligands and Histrionicotoxin at Muscarinic Receptors of Neural Cell Lines Gregory J. Wastek and Henry I. Yamamura. Biochemical Characterization of	751
the Muscarinic Cholinergic Receptor in Human Brain: Alterations in Huntington's Disease S. CHERKEZ, H. YELLIN, Y. KASHMAN, B. YAAVETZ, AND M. SOKOLOVSKY. Structure-Activity Relationship in a New Series of Atropine Analogs. II. The Effect of an	768
Asymmetric N-Substituent on the Antimuscarinic Activity MING-CHENG TSAI, NABIL A. MANSOUR, AMIRA T. ELDEFRAWI, MOHYEE E. ELDEFRAWI, AND EDSON X. ALBUQUERQUE. Mechanism of Action of Amantadine on Neuromuscular Transmission	781
JOHN K. NORTHUP AND TAG E. MANSOUR. Adenylate Cyclase from Fasciola hepatica. 1. Ligand Specificity of Adenylate Cyclase-Coupled Serotonin Receptors	787 804
JOHN K. NORTHUP AND TAG E. MANSOUR. Adenylate Cyclase from Fasciola hepatica. 2. Role of Guanine Nucleotides in Coupling Adenylate Cyclase and Serotonin Receptors	820
HANSUELI SCHMASSMANN AND FRANZ OESCH. Trans-stilbene Oxide: A Selective Inducer of Rat Liver Epoxide Hydratase HÅKAN BERGSTRAND, BRITTA LUNDQUIST, AND ANNIKA SCHURMANN. Rat Mast Cell High Affinity Cyclic Nucleotide Phosphodiesterases: Separation and Inhib-	834
itory Effects of Two Antiallergic Agents PETER C. WILL AND WILLIAM D. NOTEBOOM. Methadone Uptake by L5178Y Mouse Leukemic Cells	848 856
Theodore A. Slotkin, Frederic J. Seidler, William L. Whitmore, Maria Salvaggio, and Christopher Lau. Ionic and Nucleotide Cofactor Requirements for Uptake of [3H]Norepinephrine by Rat Brain Synaptic Vesicle Preparations	000
I. BIHLER AND P. C. SAWH. Effects of Benzodiazepines on the Transport of Sugars and Ions in Rat Skeletal Muscle in Vitro LAMBERT H. M. JANSSEN AND MARIANNE T. VAN WILGENBURG. Experimental	868 879
Observation of Ionic Forces in Drug-Protein Interactions as Illustrated by the Binding of Sulfaethidole by Human Serum Albumin KIRK T. KITCHIN AND JAMES S. WOODS. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin In-	884
duction of Aryl Hydrocarbon Hydroxylase in Female Rat Liver. Evidence for De Novo Synthesis of Cytochrome P-448 JAMES S. WOODS. Alterations in Hepatic Heme Biosynthetic Capability and Mixed Function Oxidase Activity during Ethionine Exposure in Rats	890
F. PROVERBIO AND F. A. RAWLINS. Increment in Sodium and Potassium Dependent Adenosine Triphosphatase of Brain Microsomal Fraction from Rats Treated with the Cholesterol Biosynthesis Inhibitor AY 9944	900
ANDERS TUNEK, KARL L. PLATT, PHILIP BENTLEY, AND FRANZ OESCH. Microsomal Metabolism of Benzene to Species Irreversibly Binding to Microsomal Protein and Effects of Modifications of This Metabolism	920
LEWIS R. MANDEL, JOSHUA ROKACH, C. STANLEY ROONEY, AND EDWARD J. CRAGOE, JR. Inhibition of Dimethyltryptamine Biosynthesis by N,N'-Bis-(3-methyl-2-thiazolidinylidene)Succinamide (I) and 2-Imino-3-Methylthiazolidinylidene	•••
dine (II) IRENE B. GLOWINSKI, HAROLD E. RADTKE, AND WENDELL W. WEBER. Genetic Variation in N-Acetylation of Carcinogenic Arylamines by Human and Rabbit Liver	930
KEITH W. MILLER, MICHAEL W. WILSON, AND RAYMOND A. SMITH. Pressure Resolves Two Sites of Action of Inert Gases ANNOUNCEMENT	950 960
Number 6, November 1978	
Announcement Kwen-Jen Chang, Richard J. Miller, and Pedro Cuatrecasas. Interaction	iii
of Enkephalin with Opiate Receptors in Intact Cultured Cells J. M. Palacios, M. Garbarg, G. Barbin, and J. C. Schwartz. Pharmacological	961

Characterization of Histamine Receptors Mediating the Stimulation of Cyclic	
AMP Accumulation in Slices from Guinea-Pig Hippocampus	971
D. L. Nelson, A. Herbet, S. Bourgoin, J. Glowinski, and M. Hamon.	
Characteristics of Central 5-HT Receptors and Their Adaptive Changes following Introduced 5-7 Dibuday standards and Administration in the Bet	000
ing Intracerebral 5,7-Dihydroxytryptamine Administration in the Rat E. L. Rugg, D. B. Barnett, and S. R. Nahorski. Coexistence of Beta ₁ and Beta ₂	983
Adrenoceptors in Mammalian Lung: Evidence from Direct Binding Studies	996
Daniel Butlen, Gilles Guillon, Rabary M. Rajerison, Serge Jard, Wilbur	990
H. SAWYER, AND MAURICE MANNING. Structural Requirements for Activation	
of Vasopressin-sensitive Adenylate Cyclase, Hormone Binding, and Antidiuretic	
Actions: Effects of Highly Potent Analogues and Competitive Inhibitors	1006
YORAM ORON, JOAN KELLOGG, AND JOSEPH LARNER. Alpha Adrenergic and	
Cholinergic-Muscarinic Regulation of Adenosine Cyclic 3',5'-Monophosphate	
Levels in the Rat Parotid	1018
JEFFREY F. HARPER AND GARY BROOKER. Amylase Secretion from the Rat	
	1031
JAMES W. PUTNEY, JR., CYNTHIA M. VANDEWALLE, AND BARBARA A.	
	1046
J. M. SAEZ, F. HAOUR, G. P. E. TELL, D. GALLET, AND P. SANCHEZ. Human	
Chorionic Gonadotropin-Induced Leydig Cell Refractoriness to Gonadotropin	1054
Stimulation Colin Duncan and Kenneth J. Broadley. Correlation between cAMP Produc-	1054
tion in Guinea-Pig Left and Right Atria and Their Inotropic and Chronotropic	
	1063
KARL H. JAKOBS, WILHELM SAUR, AND GÜNTER SCHULTZ. Metal and Metal-ATP	1000
Interations with Human Platelet Adenylate Cyclase: Effects of Alpha Adrener-	
· T 1 ·1 ·1 ·1	1073
JOHN C. LAWRENCE, JR., AND JOSEPH LARNER. Effects of Insulin, Methoxamine,	
and Calcium on Glycogen Synthase in Rat Adipocytes	1079
BARBARA B. KITCHELL, ELMER J. RAUCKMAN, AND GERALD M. ROSEN. The	
Effect of Temperature on Mixed Function Amine Oxidase Intrinsic Fluores-	
cence and Oxidative Activity J. JÄRVISALO, A. H. GIBBS, AND F. DE MATTEIS. Accelerated Conversion of Heme	1092
J. JÄRVISALO, A. H. GIBBS, AND F. DE MATTEIS. Accelerated Conversion of Heme	
to Bile Pigments Caused in the Liver by Carbon Disulfide and Other Sulfur-	1000
	1099
W. LEVIN, P. E. THOMAS, D. KORZENIOWSKI, H. SEIFRIED, D. M. JERINA, AND A.	
Y. H. Lu. Liver Microsomal Epoxide Hydrase: Activation, Inhibition, and Immunological Properties of the Purified Enzyme	1107
DAVID KESSEL AND R. STANLEY McELHINNEY. Effect of Dithiocarbanilates on	1107
Some Biological and Biophysical Properties of Leukemia L1210 Cell Mem-	
	1121
MICHEL LEGRAVEREND AND ROBERT I. GLAZER. Inhibition of the Phosphorylation	
of Nonhistone Chromosomal Proteins by Cordycepin and Xylosyladenine in	
L1210 Cells in Vitro	1130
DAVID T. VISTICA, JANE N. TOAL, AND MARCO RABINOVITZ. Amino Acid Con-	
ferred Protection against Melphalan: Interference with Leucine Protection of	
Melphalan Cytotoxicity by the Basic Amino Acids in Cultured Murine L1210	
Leukemia Cells	1136
D. S. ROSENBLATT, V. M. WHITEHEAD, N. VERA, A. POTTIER, M. DUPONT, AND M	
J. VUCHICH. Prolonged Inhibition of DNA Synthesis Associated with the	1140
Accumulation of Methotrexate Polyglutamates by Cultured Human Cells	1143
ERICH WEISS AND PETER C. HEINRICH. The Effect of Inhibitors of Transcription and Translation on Chromosomal Proteins	1140
and Translation on Chromosomal Proteins EDWARD A. SAUSVILLE AND SUSAN B. HORWITZ. Inhibition of SV40 DNA Syn-	1140
	1156
BRIAN MCNELIS AND KENNETH R. CUTRONEO. A Selective Decrease of Collagen	1100
Peptide Synthesis by Dermal Polysomes Isolated from Glucocorticoid-Treated	
Newborn Rats	1167
JULIE L. EISEMAN AND ALVITO P. ALVARES. Alterations Induced in Heme Path-	-
way Enzymes and Monooxygenases by Gold	1176
RYAN HUXTABLE, DAVID CIARAMITARO, AND DOUGLAS EISENSTEIN. The Effect	
of a Pyrrolizidine Alkaloid, Monocrotaline, and a Pyrrole, Dehydroretronecine,	
	1189

VIRENDRA K. SHARMA AND SHAILESH P. BANERJEE. Denervation of Cat Fast- and	
Slow-Skeletal Muscles: Effect on Ouabain Binding	1204
P. MICHAEL IUVONE, C. L. GALLI, AND N. H. NEFF. Retinal Tyrosine Hydroxylase:	
Comparison of Short-term and Long-term Stimulation by Light	1212
Author Index for Volume 14	1220
Subject Index for Volume 14	1229