

TOXICOLOGY & APPLIED
PHARMACOLOGY

Volume 27, Number 2, February 1974

CONTENTS

ALASTAIR N. WOODFIN, PETER R. B. NEILL, LEONIE E. MANDRELL, THOMAS ANTHONY K. PALMER AND MAUREEN A. FLETCHER. Feeding Studies on Lorcain in the Rat and Dog.	215	MURRAY M. JITTENHA AND JAMES L. SCHAFER. The Cytogenetic Effect of Tris(hydroxymethyl)aminomethane in the Rat as Evaluated by the Micronucleus Test.	421
ROBERT P. BRULIN AND GEORGE V. FORSTER, JR. Interaction of Bis(hydroxymethyl)amine with Chloral Hydrate and Trichloroethyl Phosphate.	225	EUN WOO LEE, JAMES J. KUCINS AND ROBERT SNYDER. Acute Effect of Benzene on ⁵⁹ Fe Incorporation into Circulating Erythrocytes.	431
KEITH M. BRYLANT, RICHARD Y. YON AND LEONARD R. FORTY. The Hemolytic Activity of Some Trialkyltin and Triphenyltin Compounds.	230	JOYCE A. GONTER, RABECCA MANDERL AND DANNY L. JUE. Experimental Hepatic Porphyria Induced by Polychlorinated Biphenyls.	437
FREDERICK B. SORILL AND WILLIAM A. GROFF. The Reversibility of Cholinesterases Inhibited by VX and Sarin in Man.	241	JAMES W. BARNHART. The Effect of Ethoxycyclohexane on Cholesterol Metabolism in Mice.	449
GALIN H. NEHER. Nicotine-Induced Depression of Lymphocyte Growth.	253	M. KATHLEEN CARTER AND BETTY MADDOX. Interaction of Dichlorvos and Anticholinesterases on the <i>In Vitro</i> Inhibition of Human Blood Cholinesterases.	456
ROBERT W. FLEISCHMAN, ULRIKH SCHAEFF, IRVING A. HATHAM, RICHARD S. FRIELAN, HARRIS ROSENKRANTZ AND VALERIE KLEWEL. Practical Toxicologic Evaluation of Chromomycin A3 (NSC-58 514) in Mice, Dogs and Monkeys.	259	ANNOUNCEMENT.	464
M. J. NETTLETON, R. H. POWERS AND J. H. SHORTER. The Cardiovascular Effects of Two New Triazine Antimetabolites, BRL 58216 (Chlorthalidone) and BRL 6231.	271		
RONALD E. MURRAY AND JAMES E. OSHORN. Paracetamol Disposition in Rats, Guinea Pigs and Monkeys.	283		
T. H. GIERKE AND E. C. FOULKE. Acute Effects of Cadmium on Proximal Tubular Function in Rabbits.	292		
MYRON A. MEHLMAN, LILLIAN YON AND RICHARD C. NEUBER. Metabolic Changes in "Fropin-Chowpoin" Livers of Rats Caused by Ingestion of Polychlorinated Biphenyls.	300		
J. E. GRAY, R. N. WEAVER, J. MORAN AND E. S. FREESTRA. The Parenteral Toxicity of Clindamycin 2-Phosphate in Laboratory Animals.	308		
J. A. BOLLERT, J. E. GRAY, J. D. HIGHTSTREET, J. MORAN, B. P. FURMALL AND R. N. WEAVER. Teratogenicity and Neonatal Toxicity of Clindamycin 2-Phosphate in Laboratory Animals.	322		
BERNARD D. GOLDSTEIN AND OSCAR J. BALCHUM. Modification of the Responses of Rats to Lethal Levels of Ozone by Enzyme-Inducing Agents.	330		
P. LICHTYAT, M. C. AULTMAN AND M. ADOLPH. Effect of Isoprenaline on Cultured Rat Heart Cells.	336		
BAH, K. J. LUNG, TIMOTHY O. T. TS'G AND MAYNARD B. ONIMOWETH. Testicular Atrophy from Inhalation of Ethylene Oxide Cyclic Tetramer.	342		
PAUL M. MENDEL AND RICHARD A. BLOOMFIELD. Ammonia Detoxifying Mechanisms of Rainbow Trout Altered by Dietary Diets.	355		
RICHARD A. NEHER. Absorption, Distribution and Excretion of Inorganic Tin in Rats.	366		
H. M. MALING, B. HUGHMAN, M. A. WILLIAMS, W. SAUL, W. M. BUTLER, JR. AND B. B. BROSIE. Reduction by Pretreatment with Ethionine of Hepaticotoxicity Induced by Carbon Tetrachloride, Thioacetamide or Dimethylhydrazine.	380		
D. KARABELLME, G. ZERNICH AND E. BARRAGAN. Drug-Induced Focal Cell Reactions in Rats I. Histopathologic and Cytochemical Observations after Treatment with Chlorpromazine, RME 1639 and Ro 4-038.	395		
M. G. JONES AND W. C. LEVINE. Effects of Vibration and Proliferin on DNA Metabolism.	408		
VINCENT M. FINELLI, PETER M. ELLER, PATRICIA H. MONTAGUE AND HAROLD G. PETERSON. Parent <i>In Vivo</i> Inhibition of Tyrosinase: Metal-Binding Fractions of Tobacco Smoke Condensates.	415		

CONTENTS

M. F. COTLAND AND M. F. CRAWFORD, Effects of α, β -DDT on the Adrenal Gland and Hepatic Mitochondrial Folate System in the Dogfish	1	ROBERT T. DILLI AND JAMES R. FRYUS, The Lack of Effects of Pretreatment with Phenobarbital and Chlorthalidone on the Acute Toxicity of Benzene in Rats	183
J. K. PETERSON, R. B. TOSKOWSKI, J. M. WISNIEWSKI-KNYPL, AND W. BODLAENDER, Mercury Binding in the Kidney and Liver of Rats Repeatedly Exposed to Mercury Chloride: Induction of Metallothionein by Mercury and Cadmium	11	DAVID T. DUFFY, THOMAS L. RUMBLE, AND FARRIS L. CRAIG, Effect of Low-Residue Foods on Indomethacin-Induced Intestinal Lesions in Rats	194
T. KATO AND S. KITAHAWA, Effects of a New Antibacterial Sulfonamide (CS-61) on Mouse and Rat Fetuses	20	SHORT COMMUNICATIONS	
D. J. ECKHART AND A. M. COMPAU, Genetic Polymorphism of Plasma Carbonylhydrazide in the Rabbit: Correlation with Pharmacologic and Toxicologic Effects	28	STEPHEN T. KILLEY, FREDERICK W. OEHME, AND SHIRLEY B. HOFFMAN, Effect of Chronic Dietary Nitrogen on Canine Thyroid Function	200
JEREMY H. THOMPSON, CHE SU, JEAN C. SHIH, DOMITILHA AULES, LILIE CHOI, SHERRILL BUTTNER, WILLIAM S. LUKWITA, MARCIA SIMON, AND DOUGLAS SILVA, Effects of Chronic Nicotine Administration and Age on Various Neurotransmitters and Associated Enzymes in Male Fischer-344 Rats	41	TAKIO YAMAMOTO, MASAOKI YAMAGUCHI, AND YASUOBU SUZUKI, Calcium Accumulation in Liver and Calcium Mobilization in Bone of Lead-Poisoned Rats	204
F. IVERSON, R. H. DOWNE, H. L. TRENNHOLM, AND C. PAUL, Accumulation and Tissue Distribution of Mercury in the Guinea Pig during Subacute Administration of Methyl Mercury	60	ROBERT E. MARCHEL AND JAMES J. KOCH, Dimethylhydrazide Increases the Lethality of CCl_4 in Rats but Decreases Its Hepatotoxicity	204
RICHARD LACOMBE AND JULES BRODFUR, The Effect of Pretreatment with Diethylenetriamine on Certain <i>In Vivo</i> Parameters of Enzyme Induction in Mice	70	ALFRED H. MERRILL AND T. COLIN CAMPBELL, Preliminary Study of <i>In Vitro</i> Amino Acid Metabolism by Human Liver	210
MICHAEL P. DIETER, Plasma Enzyme Activities in Controls, Quail, and Gated Doses of DDE, Polychlorinated Biphenyl, Malathion and Mercury Chloride	86		
CHRISTOPHER M. FREDERICK, ROBERT E. LARSON, AND ROY ARON, Effect of Chronic DDT Exposure on Pentobarbital Tolerance and Insulin in the Rat	99		
FREDERICK M. RADZIALOWSKI AND JAMES A. ORENDAK, Effect of Phenacetin on Hepatic Drug Metabolism in the Rat	108		
LAURENCE W. NELSON AND WILLIAM A. KELLY, Changes in Canine Mammary Gland Histology during the Estrous Cycle	113		
BERNARDINO MANTILLA-PLATA AND RAYMOND D. HARRISON, Effects of Phenobarbital and SKF 525A Pretreatment, Sex, Liver Injury, and Vehicle on α -Tetrahydrocannabinol Toxicity	123		
GARY E. ISOM AND JAMES L. WAY, Alteration of <i>In Vivo</i> Glucose Metabolism by Cobaltous Chloride	131		
JULIE L. EBERMAN, PERRY J. GENSING, AND JAMES E. GIBSON, Kinetics of <i>In Vivo</i> Nitro Reduction of 2,4-Dinitrophenol by Rat Liver Homogenates	140		
J. E. GRAY, R. N. WEAVER, A. A. SINGULA, P. E. SCHWAB, AND J. MORAN, Drug-Induced Enteropathy Characterized by Lipid in Mesenteric	145		
YUDAL K. LUTHER AND MARIE ROSENKRANTZ, Cannabinoids: Neurochemical Aspects after Oral Chronic Administration to Rats	158		
ALLEN YARNEY, HANS P. DROBNEY, HUGH FRIBEL, JULIAN WILSON, AND EDWIN I. GUNNAR, An 18-Month Study of the Pharmacologic and Tumorogenic Effects of Hyacinthosin in Schistosoma mansoni-Infected and Noninfected Mice	169		