## **CONTENTS**

No. 1. FEBRUARY, 1964	PAGE
THE BRITISH PHARMACOLOGICAL SOCIETY, PROGRAMME OF MEETING, JANUARY 2 to 4	1
HAEFELY, W., HURLIMANN, A. AND THOENEN, H. A QUANTITATIVE STUDY OF THE EFFECT OF COCAINE ON THE RESPONSE OF THE CAT NICTITATING MEMBRANE TO NERVE STIMULATION AND TO INJECTED NORADRENALINE	, <sub>5</sub>
JAGO, MARGARET. Antibacterial activity of some derivatives of 7-amino- cephalosporanic acid against <i>Staphylococcus aureus</i> and synergism between these and other antibiotics	22
PARRATT, J. R. A COMPARISON OF THE EFFECTS OF THE PLASMA KININS, BRADY-KININ AND KALLIDIN, ON MYOCARDIAL BLOOD FLOW AND METABOLISM	34
BERGMANN, F., PARNAS, I. AND REICH, K. THE ACTION OF THE TOXIN OF Prymnesium parvum Carter on the Guinea-pig Ileum	47
BLACKMAN, J. G. AND RAY, C. ACTIONS OF MECAMYLAMINE, DIMECAMINE, PEMPIDINE AND THEIR TWO QUATERNARY METHO-SALTS AT THE NEUROMUSCULAR JUNCTION	56
BENFEY, B. G. AND VARMA, D. R. VASOCONSTRICTOR ACTION OF TOLAZOLINE.	66
DAY, M. D. and RAND, M. J. Some observations on the pharmacology of $\alpha\text{-METHYLDOPA}$	72
EISEN, V. Effect of hexadimethrine bromide on plasma kinin formation, hydrolysis of $p$ -tosyl-l-arginine methyl ester and fibrinolysis	87
FARRANT, J., HARVEY, JUDITH ANN AND PENNEFATHER, JOCELYN N. THE INFLUENCE OF PHENOXYBENZAMINE ON THE STORAGE OF NORADRENALINE IN RAT AND CAT TISSUES	104
WHITE, T. OBSERVATIONS ON A VASOACTIVE MATERIAL IN BRAIN EXTRACTS	113
ASSARSON, N. AND EMMELIN, N. LEAKAGE OF TRANSMITTERS IN SALIVARY GLANDS	119
CARLYLE, R. F. THE RESPONSES OF THE GUINEA-PIG ISOLATED INTACT TRACHEA TO TRANSMURAL STIMULATION AND THE RELEASE OF AN ACETYLCHOLINE-LIKE SUBSTANCE UNDER CONDITIONS OF REST AND STIMULATION	126
BUSFIELD, DOROTHY, CHILD, K. J. AND TOMICH, E. G. AN EFFECT OF PHENOBARBITONE ON GRISEOFULVIN METABOLISM IN THE RAT	137
PATON, W. D. M. AND THOMPSON, J. W. THE GANGLION BLOCKING ACTION OF PROCAINAMIDE	143
BHARGAVA, K. P. AND CHANDRA, OM. TRANQUILLIZING AND HYPOTENSIVE ACTIVITIES OF TWELVE PHENOTHIAZINES	154
BHARGAVA, K. P. AND JAITLY, K. D. THE EFFECT OF SOME PHENOTHIAZINE TRANQUILLIZERS ON THE OESTROUS CYCLE OF ALBINO MICE	162
GLOVER, W. E., SHANKS, R. G. AND STANFORD, C. F. PERIPHERAL VASCULAR EFFECTS OF MIXTURES OF ISOPRENALINE AND NORADRENALINE IN MAN	166
BEVAN, J. A. and SU, C. The sympathetic mechanism in the isolated pulmonary artery of the rabbit	176
HORTON, E. W. AND THOMPSON, C. J. THIN-LAYER CHROMATOGRAPHY AND BIOASSAY OF PROSTAGLANDINS IN EXTRACTS OF SEMEN AND TISSUES OF THE MALE REPRODUCTIVE TRACT	183
HORTON, E. W. ACTIONS OF PROSTAGLANDINS E1, E2 AND E3 ON THE CENTRAL NERVOUS SYSTEM	189

MUSCHOLL, E. AND VOGT, MARTHE. SECRETORY RESPONSES OF EXTRAMEDULLARY CHROMAFFIN TISSUE	.193
ARMITAGE, A. K. AND VANE, J. R. A SENSITIVE METHOD FOR THE ASSAY OF	204
CATECHOL AMINES	211
No. 2. APRIL, 1964	
LIGHTOWLER, J. E. AND RYLANCE, H. J. ON THE ANTI-INFLAMMATORY ACTIVITY OF SOME SUBSTITUTED PHENOLIC COMPOUNDS	221
DOYLE, D., HARRIS, E. A. AND SLAWSON, K. B. THE RESPIRATORY ACTION OF DICHLORPHENAMIDE	228
BHAGAT, B. Modification of the effects of guanethidine on cardiac catechol amines by various agents	238
WHITTLE, B. A. THE USE OF CHANGES IN CAPILLARY PERMEABILITY IN MICE TO DISTINGUISH BETWEEN NARCOTIC AND NONNARCOTIC ANALGESICS	246
SMITH, M. W. Some pharmacological properties of uridine nucleotides .	254
FLEMING, W. W. AND KENNY, A. D. THE EFFECT OF FASTING ON THE HYPER-GLYCAEMIC RESPONSES TO CATECHOL AMINES IN RATS	267
HÖGBERG, KG. AND LINDVALL, S. THE DISTRIBUTION OF PARENTERAL IRON HAEMATINICS IN NONPREGNANT, PREGNANT AND LACTATING RATS	275
COX, B. M. AND WEINSTOCK, MARTA. QUANTITATIVE STUDIES OF THE ANTA-GONISM BY NALORPHINE OF SOME OF THE ACTIONS OF MORPHINE-LIKE ANALGESIC DRUGS	289
LESLIE, G. B. AND MAXWELL, D. R. SOME PHARMACOLOGICAL PROPERTIES OF THIOPROPERAZINE AND THEIR MODIFICATION BY ANTI-PARKINSONIAN DRUGS	301
BASIL, B., BLAIR, A. M. J. N. AND HOLMES, S. W. THE ACTION OF SODIUM 4-HYDROXYBURYTATE ON SPINAL REFLEXES	318
KRIVOY, W. AND KROEGER, D. THE PRESERVATION OF BRADYKININ BY PHENOTHIAZINES IN VITRO	329
KHAYYAL, M. T. THE EFFECTS OF ANTIMONY UPTAKE ON THE LOCATION AND PAIRING OF SCHISTOSOMA MANSONI	342
GREEN, A. F. AND ROBSON, R. D. COMPARISON OF THE EFFECTS OF BRETYLIUM, GUANETHIDINE AND BETHANIDINE ON SMOOTH MUSCLE RESPONSES TO DIFFERENT RATES OF SYMPATHETIC NERVE STIMULATION	349
RANG, H. P. STIMULANT ACTIONS OF VOLATILE ANAESTHETICS ON SMOOTH MUSCLE.	356
BENFEY, B. G. AND VARMA, D. R. INFLUENCE OF METHYLDOPA ON CENTRAL	
EDERY, H. POTENTIATION OF THE ACTION OF BRADYKININ ON SMOOTH MUSCLE BY CHYMOTRYPSIN, CHYMOTRYPSINOGEN AND TRYPSIN	366 371
ROBSON, J. M. AND SENIOR, JUDITH B. THE 5-HYDROXYTRYPTAMINE CONTENT OF THE PLACENTA AND FOETUS DURING PREGNANCY IN MICE.	380
HAWKINS, D. F. OBSERVATIONS ON THE APPLICATION OF THE ROBBINS-MONRO PROCESS TO SEQUENTIAL TOXICITY ASSAYS	392
SINGH, I. RELEASE OF "NEUROKININ" ON NERVOUS AND ELECTRICAL STIMULATION OF A FROG STOMACH MUSCLE PREPARATION	403

EDGE, N. D. Effects of amphetamine on the responses of the guinea-pig isolated vas deferens preparation to hypogastric nerve stimulation.  MATTHEWS, E. K. and QUILLIAM, J. P. Effects of central depressant	408 415
	415
DRUGS UPON ACETYLCHOLINE RELEASE	413
No. 3. JUNE, 1964	
EVANS, E. R. AND WILSON, H. ACTIONS OF HEMICHOLINIUM (HC-3) ON NEURO-MUSCULAR TRANSMISSION	441
BJURÖ, T. AND WESTLING, H. THE EFFECT OF SODIUM INTAKE ON THE URINARY HISTAMINE IN ADRENALECTOMIZED RATS	453
DEL CASTILLO, J., DE MELLO, W. C. AND MORALES, T. MECHANISM OF THE PARALYSING ACTION OF PIPERAZINE ON ASCARIS MUSCLE.	463
EVANS, M. H. EFFECTS OF "PARALYTIC SHELLFISH POISON" ON FROG NERVE AND MUSCLE	478
CALAM, D. H. AND CALLOW, R. K. HISTAMINE PROTECTION PRODUCED BY PLANT TUMOUR EXTRACTS. THE ACTIVE PRINCIPLE OF TOMATO PLANTS INFECTED	486
WITH CROWN-GALL	499
MAIN, I. H. M. The inhibitory actions of prostaglandins on respiratory smooth muscle	511
AMURE, B. O. AND GINSBURG, M. EFFECTS OF CHLORPROMAZINE AND BROMO- LYSERGIC ACID DIETHYLAMIDE ON GASTRIC SECRETION OF ACID INDUCED BY HISTAMINE IN RATS	520
BURN, J. H. AND GIBBONS, W. R. THE EFFECT OF PHENOXYBENZAMINE AND OF TOLAZOLINE ON THE RESPONSE TO SYMPATHETIC STIMULATION	527
BURN, J. H. AND GIBBONS, W. R. THE PART PLAYED BY CALCIUM IN DETERMINING THE RESPONSE TO STIMULATION OF SYMPATHETIC POSTGANGLIONIC FIBRES	540
BURN, J. H. AND GIBBONS, W. R. THE SYMPATHETIC POSTGANGLIONIC FIBRE AND THE BLOCK BY BRETYLIUM; THE BLOCK PREVENTED BY HEXAMETHONIUM AND IMITATED BY MECAMYLAMINE	549
BOWMAN, W. C., CALLINGHAM, B. A. AND CUTHBERT, A. W. THE EFFECTS OF PHYSOSTIGMINE ON THE MECHANICAL AND ELECTRICAL RESPONSES OF THE CAT	
NICTITATING MEMBRANE	558 577
MAXWELL, G. M. THE EFFECTS OF SYNTHETIC ELEDOISIN ON THE SYSTEMIC AND CORONARY HAEMODYNAMICS AND METABOLISM OF THE INTACT DOG	585
NEAL, M. J. AND ROBSON, J. M. THE MEASUREMENT OF ANALGESIC PROPERTIES OF INHALATION DRUGS GIVEN IN SUB-ANAESTHETIC CONCENTRATIONS	590
NEAL, M. J. AND ROBSON, J. M. THE ANALGESIC PROPERTIES OF SUB-ANAESTHETIC DOSES OF ANAESTHETICS IN THE MOUSE	596
INDEX TO VOL. 22	604