

BRITISH PHARMACOLOGICAL SOCIETY

PROGRAMME OF THE MEETING HELD IN THE DEPARTMENT OF PHARMACOLOGY, UNIVERSITY OF BRISTOL

16th to 18th July, 1964

COMMUNICATIONS

M. J. Neal (introduced by **J. M. Robson**) (*Guy's Hospital Medical School, London, S.E.1*).

The anti-analgesic action of barbiturates in mice.

A. L. Bartlet (introduced by **F. Alexander**) (*Royal (Dick) School of Veterinary Studies, Edinburgh*).

The influence of the environmental temperature on some actions of chlorpromazine.

H. Reinert (*Department of Pharmacology, Pfizer Ltd., Sandwich, Kent*).

Noradrenaline, adrenergic neurones and chromaffin tissue in sympathetic ganglia.

M. J. Rand and **S. Vanov** (*Department of Pharmacology, School of Pharmacy, University of London*).

Blockade of chromaffin cells (by P-286) and responses to nicotine.

Angela Ridehalgh (introduced by **M. J. Rand**) (*Department of Pharmacology, School of Pharmacy, University of London*).

Drugs affecting acetylcholine synthesis on responses of guinea-pig colon to nerve stimulation.

J. H. Burn and **Kevin K. F. Ng** (*Department of Pharmacology, University of Singapore*).

The action of yohimbine on the isolated vas deferens.

W. A. M. Duncan and **R. G. Shanks** (*Imperial Chemical Industries Ltd., Pharmaceuticals Division, Alderley Park, Macclesfield, Cheshire*).

The pharmacology of a new adrenergic β -receptor antagonist.

A. Morales Aguilera and **E. M. Vaughan Williams** (*Department of Pharmacology, University of Oxford*).

The effects on cardiac excitability of β -receptor blocking agents in relation to their activity as local anaesthetics.

Alison Jowett and **Anne Stafford** (*Department of Pharmacology, London Hospital Medical College*).

The release of noradrenaline from the isolated heart by tyramine.

B. E. Leonard (introduced by **J. Crossland**) (*Pharmacological Laboratories, University of Nottingham*).

The pharmacology of macusine-B, an adrenergic-blocking agent extracted from *Strychnos toxifera*.

A. W. Cuthbert and **M. C. Sutter** (*Department of Pharmacology, University of Cambridge*).

The effects of some drugs on the electrical and mechanical activity of an isolated mammalian vein.

K. Hellmann and D. F. Tucker (*Chemotherapy Unit, Imperial Cancer Research Fund, Lincoln's Inn Fields, London, W.C.2*).

Screening of potential anti-tumour drugs in eggs.

A. M. Barrett (*Imperial Chemical Industries Ltd., Pharmaceuticals Division, Alderley Park, Macclesfield, Cheshire*).

Potentiation and antagonism of the hypoglycaemic response to tolbutamide by mebanazine (an inhibitor of monoamine oxidase).

D. Colquhoun and W. E. Brocklehurst (*Department of Pharmacology, University of Edinburgh Medical School, Teviot Place, Edinburgh*).

The separation and properties of two γ -globulins from immune guinea-pig serum.

S. E. Dicker and Janet C. Lewis (*Department of Physiology and Pharmacology, Chelsea College of Science and Technology, London, S.W.3*).

Differential release of oxytocin and vasopressin from rats' posterior pituitary glands *in vitro*.

J. Crossland, J. F. Mitchell and G. N. Woodruff (*Pharmacological Laboratories, University of Nottingham, and Department of Physiology, St. Mary's Hospital Medical School, London, W.2*).

Identity of the cerebellar factor.

F. H. Flint, E. Grana and P. Pratesi (*Istituto Chimico, Farmaceutico e Tossicologico, Università di Pavia*).

Affinity and intrinsic activity of choline ethers and of compounds related to furmethide.

J. L. Madinaveitia (*Imperial Chemical Industries Ltd., Pharmaceuticals Division, Alderley Park, Macclesfield, Cheshire*).

Ferrocenes as haematinics.

R. Lavery, D. F. Sharman and M. Vogt (*A.R.C. Institute of Animal Physiology, Babraham, Cambridge*).

The effect of 6-hydroxydopamine on the metabolism of noradrenaline in tissues.

S. L. Hart and J. A. Nissim (*Guy's Hospital Medical School, London, S.E.1*).

New findings on the blocking of carbohydrate absorption in the small intestine by drugs.

J. Farrant (introduced by **N. G. Waton**) (*The National Institute for Medical Research, Mill Hill, London, N.W.7*).

Effects of calcium on responses of smooth muscle to drugs after freezing and thawing.

B. Blackwell and E. Marley (*Institute of Psychiatry, Maudsley Hospital, London, S.E.5*).

Interaction of foodstuffs and monoamine oxidase inhibitors.

K. J. Dorrington and D. S. Munro (introduced by **G. M. Wilson**) (*Department of Pharmacology and Therapeutics, The University, Sheffield 10*).

The influence of increasing doses of TSH on thyroidal radioiodine discharge in mice prepared for TSH assay.

F. A. Abramson (introduced by **R. B. Barlow**) (*Department of Pharmacology, University of Edinburgh*).

Relationships between chemical structure and the affinity and efficacy of compounds related to acetylcholine.

A. S. Milton (*Tobacco Research Council Laboratories, Harrogate*).

Plasma levels of non-esterified fatty acids after the administration of bretylium and nicotine.

S. E. Smith (*Department of Pharmacology and Therapeutics, St. Thomas's Hospital Medical School, London, S.E.1*).

Uptake and efflux of α -aminoisobutyric acid-1-[^{14}C] by rat brain slices.

D. Biggs (introduced by **G. Paterson**) (*Department of Pharmacology, King's College, Strand, London, W.C.2*).

The effects of chlorocresol and caffeine on the isolated rectus abdominis muscle of the frog.

A. T. Birmingham (introduced by **George Brownlee**) (*Department of Pharmacology, King's College, Strand, London, W.C.2*).

Anticholinesterase drugs on the response of the guinea-pig vas deferens to postganglionic stimulation.

P. Akubue (introduced by **George Brownlee**) (*Department of Pharmacology, King's College, Strand, London, W.C.2*).

An indirect action of 5-hydroxytryptamine on the taenia from the caecum of the guinea-pig.

E. R. Clark, P. M. Dawes and S. G. Williams (introduced by **D. R. Wood**) (*Department of Pharmacology, University of Leeds*).

Conformational studies and the shape of choline aryl ether receptors.

B. Collier (introduced by **D. R. Wood**) (*Department of Pharmacology, University of Leeds*).

Effects of some divalent metal ions at the neuromuscular junction.

R. B. Barlow, J. T. Hamilton and E. Lesser (*Department of Pharmacology, University of Edinburgh, Department of Pharmacology, University of Western Ontario, and Department of Physiology and Pharmacology, Chelsea College of Science*).

The stereospecificity of nicotine and acetyl- α -methylcholine.

W. D. M. Paton and H. P. Rang (*Department of Pharmacology, University of Oxford*).

The uptake of tritiated atropine by longitudinal muscle strips from guinea-pig ileum.

E. A. Gyang and H. W. Kosterlitz (*Department of Physiology, University of Aberdeen*).

The effects of morphine-like drugs and certain analogues on the response of the longitudinal muscle of the guinea-pig isolated ileum to coaxial electrical stimulation.

A. S. Marriott and P. S. J. Spencer (introduced by **R. T. Brittain**) (*Research Division, Allen and Hanburys Ltd., Ware, Herts*).

Effects of centrally acting drugs on exploratory behaviour in rats.

A. S. F. Ash (introduced by **H. O. Schild**) (*Pharmacological Laboratory, University College, Gower Street, London, W.C.1*).

Studies of histamine receptors.

J. L. Mongar and B. A. V. Perera (*Pharmacological Laboratory, University College, Gower Street, London, W.C.1*).

Is oxygen needed in anaphylaxis ?

S. Garattini (introduced by **G. B. West**) (*Istituto di Ricerche Farmacologiche "Mario Negri," Milano, Italy*).

Salicylates as inhibitors of free fatty acid release.

220 PROGRAMME OF THE BRITISH PHARMACOLOGICAL SOCIETY

W. Dawson (introduced by **G. B. West**) (*Department of Pharmacology, School of Pharmacy, University of London*).

Ascorbic acid and anaphylaxis.

D. E. Clarke (introduced by **Jean E. Olley**) (*Department of Pharmacy, Bradford Institute of Technology, Bradford 7*).

Observations on the interactions of bretylium, tyramine and noradrenaline on the rat blood pressure.

DEMONSTRATIONS

J. D. Lever and **J. D. P. Graham** (*Department of Anatomy, University College, Cardiff, and Department of Pharmacology, Welsh National School of Medicine, Cardiff*).

Vesiculated axons in relation to arteriolar smooth muscle.

K. Lederis (introduced by **H. Heller**) (*Department of Pharmacology, The University, Bristol*).
Fine structure of the human neurohypophysis.

A. T. Birmingham, **G. Brownlee** and **A. B. Wilson** (*Department of Pharmacology, King's College, Strand, London, W.C.2*).

A class experiment on man: Some effects of hyoscine *N*-butyl-bromide and atropine sulphate.

M. G. Tweeddale (introduced by **A. B. Wilson**) (*Department of Pharmacology, King's College, Strand, London, W.C.2*).

Effects of drugs on the electrical stimulation of circular muscle strips from the rabbit ileum.

M. F. Sim (introduced by **A. F. Green**) (*Wellcome Research Laboratories, Langley Court, Beckenham, Kent*).

Effects of drugs on the response of skin to ultra-violet irradiation.

R. Hughes (introduced by **A. F. Green**) (*Wellcome Research Laboratories, Langley Court, Beckenham, Kent*).

The effect of adrenergic neurone blocking agents on neuromuscular transmission.

J. K. Wales (introduced by **D. R. Wood**) (*Department of Pharmacology, University of Leeds*).
The hyperglycaemic effect of diazoxide and some thiazide diuretics in rabbits.

M. S. G. Clark (introduced by **M. J. Rand**) (*Department of Pharmacology, School of Pharmacy, University of London*).

Effects of nicotine and smoking on reflexes.

A. V. Juorio (introduced by **M. Vogt**) (*A.R.C. Institute of Animal Physiology, Babraham, Cambridge*).

The mode of action of "segontin" (*N*-(3'-phenylpropyl-2')-1,1-diphenylpropyl-3-amine) on the metabolism of catechol amines.

P. L. Chambers (introduced by **D. E. Stevenson**) (*"Shell" Research Ltd., Tunstall Laboratory, Sittingbourne, Kent*).

A new technique for the study of animal behaviour.

M. T. Khayyal and **G. A. H. Buttle** (*Department of Pharmacology, School of Pharmacy, University of London*).

The use of BAL in the antimonial chemotherapy of schistosomiasis.

B. J. Northover and **G. A. H. Buttle** (*Department of Pharmacology, School of Pharmacy, University of London*).

The effect of drugs on peritoneal protein exudate in the mouse.

PROGRAMME OF THE BRITISH PHARMACOLOGICAL SOCIETY 221

A. K. Armitage (*Tobacco Research Council Laboratories, Harrogate*).

The effects of tobacco smoke on blood pressure and release of adrenaline from the adrenal medulla.

P. Bentley (introduced by **H. Heller**) (*Department of Pharmacology, The University, Bristol*).

Assay of natriferic activity of neurohypophysial peptides on the isolated frog bladder.

J. Coleman, Ann Howes and K. Lederis (introduced by **H. Heller**) (*Department of Pharmacology, The University, Bristol*).

Immuno-assay of human gonadotrophins.

D. Ferguson (introduced by **H. Heller**) (*Department of Pharmacology, The University, Bristol*).

Separation of naturally-occurring vasopressins by thin layer chromatography.

M. Ginsburg and M. Ireland (*Department of Pharmacology, The University, Bristol*).

Film dialysis of neurohypophysial hormones.

R. A. Brown and G. B. West (*Department of Pharmacology, School of Pharmacy, University of London*).

Magnesium, mast cells and histamine.

S. I. Ankier (introduced by **G. B. West**) (*Department of Pharmacology, School of Pharmacy, University of London*).

The anaphylactoid reaction produced by egg-white, dextran and dextrin.

R. H. Poyser (introduced by **G. B. West**) (*School of Pharmacy, Brighton College of Technology, Brighton*).

Carbohydrates and vascular permeability in the rat.

R. Morris, G. J. Lane and M. Ginsburg (*Department of Pharmacology, University of Bristol*).

A semi-automatic organ bath assembly suitable for class experiments.

D. J. Roberts (introduced by **W. C. Bowman**) (*School of Pharmacy, Brighton College of Technology, Brighton*).

Some studies on the possible role of an isoprenaline-like metabolite in the vasodilator response to adrenaline.

T. W. Clarkson (introduced by **J. M. Barnes**) (*M.R.C. Laboratory, Carshalton*).

A technique for studying the mode of action of mercurial diuretics.

A. F. Lewis (introduced by **J. B. Baker**) (*Department of Physiology, Charing Cross Hospital Medical School*).

A single pulse transistorized stimulator.

W. D. M. Paton (*Department of Pharmacology, University of Oxford*).

Electron-microscopy of longitudinal smooth muscle and nerve networks of the guinea-pig ileum.

E. P. Bonetti and C. W. Wilson (*Department of Pharmacology and General Therapeutics, University of Liverpool*).

The assessment of gastric damage in the rat.

J. H. Burn (*Department of Pharmacology, University of Singapore*).

The action of pempidine.