

## BRITISH PHARMACOLOGICAL SOCIETY

### PROGRAMME OF THE WINTER MEETING HELD AT THE UNIVERSITY OF NOTTINGHAM

*5th and 6th January, 1967*

#### COMMUNICATIONS

**I. Falconer** (introduced by **J. Crossland**) (*Department of Chemistry, University of Nottingham School of Agriculture, Sutton Bonington, Notts*).

Some effects of drugs and hormones on thyroid blood flow in the sheep.

**B. Clark** (introduced by **J. W. Thompson**) (*Department of Pharmacology, University of Newcastle-upon-Tyne*).

The inhibition of the metabolism of narcotic analgesics by monoamine oxidase inhibitors and by other drugs.

**B. M. Cox, M. Ginsburg and O. H. Osman** (*Department of Pharmacology, Chelsea College*).

Acute tolerance to narcotic analgesics in rats.

**H. W. Kosterlitz, R. J. Lydon and A. J. Watt** (*Department of Physiology, University of Aberdeen*).

Further observations on the agonist and antagonist actions of morphine-like drugs on the guinea-pig isolated ileum.

**D. Mackay and D. B. Taylor** (*Department of Pharmacology, Leeds University, and Department of Pharmacology, The University of California at Los Angeles*).

Uptake of tritium-labelled symmetrical bis-quaternary compounds by isolated mouse diaphragm.

**A. M. J. N. Blair, A. J. Clarke, P. J. Killingback, P. Sheard and Audrey Woods** (*Pharmacology Department, Fisons Pharmaceuticals Limited, Holmes Chapel, Cheshire*).

A specific antigen-antibody inhibitor.

**Ruth Rushton and Hannah Steinberg** (*Pharmacology Department, University College, London*).

Persistence of the effects of a single experience on subsequent reactions to drugs by rats.

**I. P. Stolerman** (introduced by **Hannah Steinberg**) (*Pharmacology Department, University College, London*).

Factors determining effects of chlorpromazine on the food consumption of rats.

**Elizabeth Shillito** (introduced by **Marthe Vogt**) (*A.R.C. Institute of Animal Physiology, Babraham, Cambridge*).

A comparison of the effects of chlorpromazine and thioridazine on exploratory behaviour in rats.

**B. M. Barker** (introduced by **E. H. L. Harries**) (*Nicholas Research Institute, Wexham Place, Framewood Road, Wexham, Bucks*).

The interaction of amphetamine and some other common drugs as recorded with the Y box.

**Cathleen F. Morrison** (introduced by **A. K. Armitage**) (*Tobacco Research Council Laboratories, Harrogate, Yorkshire*).

Some effects of nicotine on rat behaviour and their modification by physostigmine.

**R. T. Brittain** and **S. L. Handley** (*Research Division, Allen and Hanburys Ltd., Ware, Herts*).

The effects of intracerebrally injected catecholamines on body temperature in the mouse.

**P. Seeman** (introduced by **A. W. Cuthbert**) (*University Department of Pharmacology, Downing Street, Cambridge*).

Effect of temperature on erythrocyte membrane stabilization by alcohols.

**E. E. Cliffe** and **E. C. Wilmshurst** (*Research Department, Boots Pure Drug Co., Ltd., Nottingham*).

The metabolism of diloxamide furoate in relation to biological activity.

**E. E. Cliffe**, **S. S. Adams** and **J. S. Nicholson** (*Research Department, Boots Pure Drug Co., Ltd., Nottingham*).

The metabolic fate of ibufenac.

**J. Hayden** (introduced by **E. H. L. Harries**) (*Nicholas Research Institute, Wexham Place, Framewood Road, Wexham, Bucks*).

Paradoxical activity of analogues of picloxydine in analgesic screening tests.

**K. W. Bentley** (introduced by **A. L. A. Boura**) (*Organic Chemistry Laboratory, Reckitt and Sons, Hull*).

The relationship between structure and activity in the 6, 14-ethenotetrahydrothebaine series of analgesics.

**R. B. Barlow** and **N. C. Scott** (*Department of Pharmacology, University of Edinburgh*).

Chemical structure and affinity for nicotine-sensitive receptors in the frog rectus.

**J. T. Hamilton** (*University of Western Ontario, London, Canada*).

Further studies on the synaptic activity of benzyltrimethylammonium and its  $\alpha$ ,  $\beta$  and  $\gamma$  pyridyl analogues.

**C. H. Cashin** and **M. E. Tarrant** (introduced by **J. Crossland**) (*Lilly Research Laboratories, Speke, Liverpool*).

The interaction of acidic anti-inflammatory drugs with protein.

**R. G. Bough**, **L. J. Hale**, **B. Lessel**, **C. G. Mason** and **D. F. Spooner** (introduced by **M. R. Gurd**) (*Boots Pure Drug Co., Ltd., Nottingham*).

Some properties of quinacillin *in vivo*.

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

Study of *M. leprae* (human leprosy) infections in mice.

**B. Lessel, E. E. Cliffe and J. E. Hall** (introduced by **M. R. Gurd**) (*Boots Pure Drug Co., Ltd., Nottingham*).

The effect of 4-cyclohexylphenylacetic acid on adrenals.

**H. F. Marlow, J. C. Metcalfe and A. S. V. Burgen** (*Department of Pharmacology, Downing Street, Cambridge*).

An antibody model for the acetylcholine receptor.

**J. C. Metcalfe, N. Wade Jardetsky, O. Jardetsky and A. S. V. Burgen** (*Department of Pharmacology, Downing Street, Cambridge*).

Stabilization of tetramethylammonium complexed with an antibody.

**L. Spero** (introduced by **B. A. Callingham**) (*Department of Pharmacology, Downing Street, Cambridge*).

Modification of the responses of smooth muscle to muscarinic agonists by Ca and Mg.

**B. J. Large** (introduced by **Eleanor Zaimis**) (*Department of Pharmacology, Royal Free Hospital School of Medicine, 8 Hunter Street, London W.C.1*).

The NGF-treated kitten.

**G. N. Woodruff, R. J. Walker and G. A. Kerkut** (introduced by **J. Crossland**) (*Department of Physiology and Biochemistry, University of Southampton*).

The effects of some naturally-occurring imidazoles on neurones of *Helix aspersa*.

**J. Crossland and P. Slater** (*Pharmacology Laboratories, University of Nottingham*).

The effects of some drugs on the "free" and "bound" acetylcholine of rat brain.

**B. E. Leonard and D. Riddell** (*Pharmacology Laboratories, University of Nottingham*).

The properties of a biologically-active material isolated from mammalian brain.

**J. Crossland and K. J. Rogers** (*Pharmacology Laboratories, University of Nottingham*).

Neurochemical and neuropharmacological aspects of experimental catatonia.

**P. B. Bradley, L. Hösli and J. H. Wolstencroft** (*Medical Research Council Neuropharmacology Research Unit, The Medical School, Birmingham 15*).

Actions of amphetamine, histamine and noradrenaline on brain stem neurones.

**M. F. Sugrue** (introduced by **T. C. Muir**) (*Division of Experimental Pharmacology, Institute of Physiology, Glasgow University*).

The effect of psychotomimetics on the noradrenaline content of rat hypothalamus.

**A. R. Somerville and B. A. Whittle** (*Research Department, Pharmaceuticals Division, Imperial Chemical Industries, Alderley Park*).

The interrelation of reserpine-induced hypothermia and depletion of noradrenaline, dopamine and 5-hydroxytryptamine from brain.

**H. Heller and A. Q. Saifi** (*Department of Pharmacology, University of Bristol*).

Antidiuretic and oxytocic activity of the cerebrospinal fluid.

**S. H. Hasan** (introduced by **H. Heller**) (*Department of Pharmacology, University of Bristol*).

The fate of arginine vasotocin *in vivo*.

**J. W. Black, M. E. Parsons and K. E. V. Spencer** (*Smith, Kline and French Laboratories Ltd., Welwyn Garden City, Herts*).

Stimulant activities of some histamine analogues on smooth muscle and gastric secretion.

**C. B. Ferry and B. Norris** (introduced by **J. W. Thompson**) (*Department of Pharmacology, University of Newcastle-upon-Tyne*).

The neuromuscular blocking action of bretylium.

**M. E. J. Billingham, B. V. Robinson, J. M. Robson and A. F. Winder** (*Pharmacology Department, Guy's Hospital Medical School, London S.E.1*).

A pharmacologically active high molecular protein produced at a site of inflammation.

**P. B. Marley** (introduced by **F. M. Sullivan**) (*Pharmacology Department, Guy's Hospital Medical School, London, S.E.1*).

Effect of 5-hydroxytryptamine on the diffusion of radio sodium into the uterus and blastocyst.

**J. R. Fozard** (introduced by **H. Schnieden**) (*The Department of Pharmacology, Manchester University*).

Drug-induced changes in the distribution of C<sup>14</sup> labelled 5-hydroxytryptamine and its metabolites in the rat.

**A. Herzheimer** (*Department of Pharmacology, London Hospital Medical College, London, E.1*).

Intramuscular and subcutaneous injection of hyoscine butylbromide in man.

**I. Brick, K. J. Hutchison and I. C. Roddie** (introduced by **R. G. Shanks**) (*Department of Physiology, The Queen's University of Belfast*).

A comparison of the beta adrenergic blocking properties of D and DL-propranolol in man.

**L. G. Dring, R. L. Smith and R. T. Williams** (*Department of Biochemistry, St. Mary's Hospital Medical School, Paddington, W.2*).

Metabolic fate of the optical isomers of <sup>14</sup>C-amphetamine, in man and other mammals.

**H. Barcroft, M. Briggs, T. M. D. Gimlette and A. Nasrallah** (*St. Thomas's Hospital Medical School, London*).

The action of intravenous adrenaline in man on the clearance of radioactive xenon from the calf muscles and on calf blood flow determined by venous occlusion plethysmography.

**M. F. Cuthbert and W. A. Peart** (*Medical Unit, London Hospital, London, E.1, and Medical Unit, St. Mary's Hospital, London, W.2*).

Purification and further characterization of a vascular permeability factor of renal origin.

**M. J. Neal** (*University Department of Pharmacology, Downing Street, Cambridge*).

The effect of convulsant drugs on coaxially stimulated guinea-pig ileum.

### DEMONSTRATIONS

**A. K. Armitage, E. R. Harris, Cathleen F. Morrison and C. M. Sellers** (*Tobacco Research Council Laboratories, Harrogate, Yorks*).

An automatic apparatus for the intermittent intravenous injection of drugs to conscious rats.

**G. F. Blane and G. Reed** (introduced by **A. L. A. Boura**) (*Pharmacology Laboratory, Reckitt and Sons, Hull*).

Antagonism of intra-arterial bradykinin in the rat as a test for analgesic drugs.

**G. H. Hall** (*Tobacco Research Council Laboratories, Harrogate*).

A simple device for recording blood pressure or for intravenous injection of drugs in the conscious unrestrained cat.

**N. M. Lightowler and J. R. B. Williams** (*Riker Laboratories, Welwyn Garden City, Herts*).

A method of assessing possible irritant effects of topically applied chemicals to the exposed trachea of the rat.

**R. G. Bough and B. Lessel** (introduced by **M. R. Gurd**) (*Boots Pure Drug Co., Ltd., Nottingham*).

Methods for large-scale staining of foetal skeletons of small animals.

**D. F. C. Crawley and K. L. Smith** (introduced by **M. R. Gurd**) (*Boots Pure Drug Co., Ltd., Nottingham*).

A thermoregulator for animal body temperature.

**M. J. Turnbull and J. Crossland** (*Pharmacology Laboratories, University of Nottingham*).

Effect of barbiturate administration on the growth of the rat.

**F. R. Ratcliffe** (introduced by **J. Crossland**) (*Pharmacology Laboratories, University of Nottingham*).

Some effects of chronic alcohol administration in the rat.

**G. G. Shaw** (introduced by **J. Crossland**) (*Pharmacology Laboratories University of Nottingham*).

Neuropharmacological actions of spermine and spermidine.

**P. Slater and J. Crossland** (*Pharmacology Laboratories, University of Nottingham*).

The acetylcholine-like activity of extracts of sciatic nerve.

**B. V. Heathcote and S. S. Adams** (*Research Department, Boots Pure Drug Co., Ltd., Nottingham*).

The gastric fistula cat.

**B. V. Heathcote and D. W. Daly** (introduced by **S. S. Adams**) (*Research Department, Boots Pure Drug Co., Ltd., Nottingham, and Coventry and Warwick Hospital, Coventry*).

Some experiments in dogs with separated vagally-innervated gastric pouches.

**J. M. Foy, J. B. Harris, G. D. H. Leach and J. Merrick** (*School of Studies in Pharmacology, University of Bradford, Bradford 7*).

The use of self-made colour-sound film loops in the teaching of Physiology and Pharmacology.

**F. J. Imms and M. T. Jones** (introduced by **H. Barcroft**) (*Sherrington School of Physiology, St. Thomas's Hospital, London, S.E.1*).

Catecholamine excretion following surgery in the rat.