

BRITISH PHARMACOLOGICAL SOCIETY

PROGRAMME OF THE MEETING HELD AT THE UNIVERSITY OF LIVERPOOL

5th and 6th January, 1966

COMMUNICATIONS

A. D'Mello (introduced by **D. M. Brown**) (*Beecham Research Laboratories, Brockham Park, Betchworth, Surrey*).

The *in vitro* intestinal absorption of penicillins.

Alison Jowett, Judith Koch and M. J. Rand (*Department of Pharmacology, School of Pharmacy, University of London, and McMaster Laboratory, C.S.I.R.O., Glebe, N.S.W., Australia*).

Actions in experimental animals of tryptamine alkaloids that occur in pasture grass and produce neurological and cardiovascular disturbances in sheep.

M. Sandler, S. Contractor and J. Arendt (introduced by **J. R. Vane**) (*from the Bernhardt Baron Memorial Research Laboratory, Queen Charlotte's Maternity Hospital, London, W.6*).

The metabolism of D-5-hydroxytryptophan in the rat.

Sophia Kakari (introduced by **Eleanor Zaimis**) (*Department of Pharmacology, The Royal Free Hospital School of Medicine, Hunter Street, London, W.C.1*).

Histochemical investigations in reserpine-treated animals.

B. A. Whittle (*Research Department, Pharmaceuticals Division, Imperial Chemical Industries Ltd., Alderley Park, Cheshire*).

Pharmacological effects of substances introduced into the peritoneal cavity.

G. V. R. Born (*Royal College of Surgeons of England, London, W.C.2*).

Effects of oxidizing and reducing agents on platelet aggregation.

L. M. McEwen (introduced by **H. C. Stewart**) (*Department of Pharmacology, St. Mary's Hospital Medical School, London, W.2*).

The activation of leucocytes from allergic patients by grass pollen extracts.

J. F. Eilbeck (introduced by **W. G. Smith**) (*Research Laboratory in Biochemical Pharmacology, School of Pharmacy, Sunderland*).

Histamine release from mast cells in guinea-pig lung.

O. Meredith (introduced by **W. G. Smith**) (*Research Laboratory in Biochemical Pharmacology, School of Pharmacy, Sunderland*).

Pregnancy and anaphylaxis in the guinea-pig.

D. T. Okpako (introduced by **R. Hicks**) (*Pharmacological Laboratories, Bradford Institute of Technology, Bradford 7*).

Factors affecting the severity of aerosol-induced anaphylaxis.

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

Inhibition of the anaphylactoid reaction.

M. Roberts and W. R. Ferrier (*Department of Materia Medica and Therapeutics, University of Aberdeen*).

The possible role of folic acid in the elevation of urinary histamine levels in the thyroxine-treated rat.

R. Creese and D. B. Taylor (introduced by **M. Weatherall**) (*Department of Physiology, St. Mary's Hospital Medical School, London, W.2, and Department of Pharmacology, University of California, Los Angeles, U.S.A.*).

Antagonists and labelled carbachol in slices of the rat brain.

V. Vojvodić (introduced by **F. Hobbiger**) (*Department of Pharmacology, Middlesex Hospital Medical School, London, W.1*).

The *in vivo* effect of oximes on the activity of acetylcholinesterase in the brain of organophosphate-poisoned animals.

G. W. Ashcroft, D. Eccleston and D. P. O'Mahony (introduced by **T. B. B. Crawford**) (*Department of Pharmacology, University of Edinburgh*).

The effect of tryptophan loading on the concentration of 5-hydroxyindoles in the cerebrospinal fluid of the dog.

B. M. Cox and Marta Weinstock (*Department of Physiology and Pharmacology, Chelsea College of Science and Technology, and Department of Pharmacology, St. Mary's Hospital Medical School, London, W.2*).

A sensitive method for the estimation of potent analgesic drugs.

A. T. M. Hill (introduced by **J. Sanford**) (*Department of Veterinary Pharmacology, University of Glasgow*).

The effect of prethcamide on pentobarbitone anaesthesia in experimental animals.

B. N. C. Prichard and P. M. S. Gillam (introduced by **D. R. Laurence**) (*Medical Unit, University College Hospital Medical School, London, W.C.1*).

Hypotension from β -adrenergic blockade.

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

Inhibition of the taenia caeci of the guinea-pig by nicotine and by electrical stimulation.

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

Respiration and survival of the neonate following administration of analgesics to the gravid rat at term.

E. W. Gill and H. P. Rang (*Department of Pharmacology, University of Oxford*).

An alkylating derivative of lachesine.

F. R. Berry and D. V. Roberts (introduced by **H. Wilson**) (*Department of Physiology, University of Liverpool*).

The anticurare action of *m*-hydroxyphenyltrimethylammonium.

J. B. Harris (introduced by **G. D. H. Leach**) (*Pharmacological Laboratories, Bradford Institute of Technology, Bradford 7*).

The effect of changes in the anionic environment on some responses of the rat isolated phrenic nerve-diaphragm preparation.

A. S. V. Burgen and L. Spero (*University Department of Pharmacology, Cambridge*).

The action of muscarinic drugs on ionic fluxes in smooth muscle.

W. Rouse (introduced by **A. M. Barrett**) (*Imperial Chemical Industries Ltd., Alderley Park, Cheshire*).

Some effects of propranolol on the cardiac conducting system.

J. A. Parsons (introduced by **W. Feldberg**) (*National Institute for Medical Research, Mill Hill, London, N.W.7*).

The importance of the rate of intravenous infusion of digitoxin, digoxin and ouabain for their emetic and toxic actions in the cat.

K. D. Jaitley, J. M. Robson, F. M. Sullivan and C. Wilson (*Department of Pharmacology, Guy's Hospital Medical School, London, S.E.1*).

Anti-fertility activity of phenelzine derivatives.

H. Norris (introduced by **H. O. Schild**) (*Department of Pharmacology, University College, London*).

Measurement of eye movement as an index of the time-course of action of barbiturates.

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

Potentialiation of insulin by mebanazine: apparent effects on growth hormone secretion.

J. Hughes (introduced by **J. R. Vane**) (*Department of Pharmacology, Royal College of Surgeons of England, London, W.C.2*).

The response of an isolated venous smooth muscle preparation to electrical stimulation and to drugs.

D. E. Barnado, H. Currey, W. R. Fox, R. M. Mason and M. Weatherall (*The London Hospital and London Hospital Medical College, London, E.1*).

The use of multiple criteria of improvement in a clinical trial—a comparison of flufenamic acid, mefenamic acid, acetylsalicylic acid and phenylbutazone in rheumatoid arthritis.

J. Price (introduced by **A. Wilson**) (*Department of Medicine, University of Liverpool*).

A pharmacogenetic approach to a demethylation hypothesis of schizophrenia.

M. J. T. Peaston and E. Sherwood Jones (introduced by **A. Wilson**) (*Clinical Pharmacology Unit, Whiston Hospital, Prescot, Lancs.*).

Intravenous and intragastric nutrition in acute illness.

W. E. Kershaw (introduced by **A. Wilson**) (*Department of Parasitology and Entomology, Liverpool School of Tropical Medicine*).

The selective effect of particulate insecticide on *Simulium* amongst stream fauna.

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

The determination of plasma inorganic iodide in the assessment of thyroid function in man.

R. Mahler and Mary Root (introduced by **J. R. Troughton**) (*Department of Medicine, Guy's Hospital Medical School, London, S.E.1*).

The effect of nicotine and related compounds on the fat metabolism of the arterial wall.

J. B. Farmer (*Department of Pharmacology, Allen and Hanbury's Ltd., Ware, Herts.*).

The biphasic response of an isolated artery to tyramine.

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

The effects of sympathomimetic amines and their antagonists on the circular muscle strips from the ileum of the rabbit.

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

Actions of adrenergic α -receptor blocking agents in the conscious cat.

C. V. Greenway and **Anne E. Lawson** (introduced by **J. L. Malcolm**) (*Department of Physiology, University of Aberdeen*).

The effect of intravenous infusion of adrenaline and noradrenaline on regional blood flow and venous return in the anaesthetized cat.

J. D. P. Graham and **H. Al-Katib** (*Department of Pharmacology, Welsh National School of Medicine, Cardiff*).

The effects of hydrolases on the action of 2-halogenoalkylamines.

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

Dopamine in the ileum.

T. B. Bolton and **C. Raper** (introduced by **W. C. Bowman**) (*Department of Physiology, Royal Veterinary College, and Department of Pharmacology, School of Pharmacy, University of London*).

Cholinergic and adrenergic innervation of the fowl ventricle.

D. F. Weetman (introduced by **D. R. Maxwell**) (*Research Laboratories, May and Baker Ltd., Dagenham, Essex*).

Hypertensive action of oxotremorine in the rat.

J. Jensen-Holm (introduced by **Eleanor Zaimis**) (*Department of Pharmacology, University of Copenhagen*).

The separate recording of inspiration and expiration in guinea-pigs treated with paraoxon.

M. D. Hollenberg and **D. B. Hope** (introduced by **H. Blaschko**) (*Department of Pharmacology, University of Oxford*).

Purification of protein fractions from the posterior lobes of bovine pituitary glands.

DEMONSTRATIONS

A. Knifton (introduced by **J. B. Roberts**) (*Department of Pharmacology, University of Liverpool*).
The influence of female sex hormones on the myometrium of *Sus scrofa*.

T. Chongsuphajaisiddhi (introduced by **B. G. Maegraith**) (*Department of Tropical Medicine, Liverpool School of Tropical Medicine*).

Action of phenoxybenzamine and chloroquine on hepatic and renal vasoconstriction in malaria.

P. Migasena (introduced by **B. G. Maegraith**) (*Department of Tropical Medicine, Liverpool School of Tropical Medicine*).

Movement of albumin across blood brain barrier in *P. knowlesi* malaria. Action of chloroquine.

A. R. Bhabani (introduced by **B. G. Maegraith**) (*Department of Tropical Medicine, Liverpool School of Tropical Medicine*).

Kinins in *P. knowlesi* malaria.

B. G. Maegraith, K. A. Fletcher, D. T. Thurnham and M. G. N. Angus (*Department of Tropical Medicine, Liverpool School of Tropical Medicine*).

Inhibition of tissue respiration and oxidative phosphorylation in malaria.

H. A. Reid (introduced by **B. G. Maegraith**) (*Department of Tropical Medicine, Liverpool School of Tropical Medicine*).

Epsilon aminocaproic acid (E.A.C.A.) and Viper defibrination.

E. Freidheim and W. E. Kershaw (introduced by **A. Wilson**) (*Department of Parasitology and Entomology, Liverpool School of Tropical Medicine*).

The chemotherapeutic screening of drugs against Filiarisis and Onchocerciasis.

F. R. Berry and D. V. Roberts (introduced by **H. Wilson**) (*Department of Physiology, University of Liverpool*).

In vivo recording of neuromuscular transmission in the rat.

E. R. L. O'Maille, T. G. Richards and A. H. Short (introduced by **A. Wilson**) (*Department of Physiology, University of Liverpool*).

Paradoxical secretory interaction between anions concentrated in the bile.

G. F. Blane and A. Weston (introduced by **A. L. A. Boura**) (*Reckitt and Sons Ltd., Hull*).

A manometric apparatus for measuring oxygen uptake in the neonatal rat.

J. M. Tesh and Sheila A. Worsley (introduced by **D. M. Brown**) (*Department of Veterinary Anatomy, University of Liverpool*).

Transplantation of mammalian ova.

T. N. Calvey (introduced by **H. Wilson**) (*Department of Pharmacology, University of Liverpool*).

Biliary excretion of neostigmine in the rat.

G. A. Buckley, R. H. Evans and P. T. Nowell (*Department of Pharmacology, University of Liverpool*).

Ultramicrobiochemical techniques.

G. A. Buckley and P. T. Nowell (*Department of Pharmacology, University of Liverpool*).

Ultramicrobiochemical determination of cholinesterase activity of motor end plates in the rat diaphragm.

R. H. Evans and P. T. Nowell (*Department of Pharmacology, University of Liverpool*).

Ultramicrobiochemical determination of ATPase activity in rat diaphragm muscle tissue.

J. M. Elsby and H. Wilson (*Department of Pharmacology, University of Liverpool*).

Lachrymal secretion in the cat.

R. D. N. Birtley and B. H. Thomas (introduced by **A. Wilson**) (*Department of Pharmacology, University of Liverpool*).

In vitro metabolism of neostigmine and pyridostigmine by rat liver microsomes.

R. D. N. Birtley (introduced by **A. Wilson**) (*Department of Pharmacology, University of Liverpool*).

Separation of pyridostigmine from its metabolites by gel filtration (Sephadex G 10).

R. D. N. Birtley, A. Hossain and J. B. Roberts (*Department of Pharmacology, University of Liverpool*).

Fate of pyridostigmine after oral administration to the rat.

P. M. Ceasar (introduced by **H. Schnieden**) (*Department of Pharmacology, University of Manchester*).

The effect of copper sulphate and manganese sulphate on some peripheral actions of noradrenaline, acetylcholine, 5-hydroxytryptamine and dopamine.

E. Beveridge and **L. G. Goodwin** (*Wellcome Laboratories of Tropical Medicine, Beckenham, Kent, and Nuffield Institute of Comparative Medicine, The Zoological Society of London, Regent's Park, N.W.1*).

Piperazine derivatives of 8-aminoquinoline in the treatment of experimental and clinical leishmaniasis.

R. M. Quinton (*Pfizer Ltd., Sandwich, Kent*).

Simple methods for the detection of tropinesterase activity in rabbits.