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BRITISH PHARMACOLOGICAL SOCIETY

PROGRAMME OF THE MEETING HELD AT ST. BARTHOLOMEW'S HOSPITAL MEDICAL COLLEGE, LONDON.

5th to 7th January, 1965

COMMUNICATIONS

J. J. Lewis and **D. Pollock** (*Experimental Pharmacology Division, Institute of Physiology, Glasgow University, Glasgow, W.2*).
Effects of some centrally acting drugs on brain levels of NAD and $NADH_2$ in the rat.

G. Blane (introduced by **K. E. V. Spencer**) (*Wyeth Laboratories, Havant, Hants*).
The absorption of insulin in the adult intestinal tract.

P. J. Watson (introduced by **W. C. Bowman**) (*Department of Pharmacy, Portsmouth College of Technology*).
The effect of guanethidine on sensory C fibres.

D. J. Roberts (introduced by **W. C. Bowman**) (*School of Pharmacy, Brighton College of Technology*).
Chromatographic studies on the formation of an isoprenaline-like substance from adrenaline *in vitro*.

D. R. Maxwell and **A. H. Loveless** (*Research Laboratories, May and Baker Ltd., Dagenham, Essex*).
Interaction between monoamine oxidase inhibitors and other centrally acting drugs.

M. L. Aikman, A. L. A. Boura, A. E. Fitzgerald and **R. E. Lister** (*Pharmacology Laboratory, Reckitt & Sons Ltd., Hull*).
Potent and long lasting analgesics and antianalgesics.

M. J. Neal and **J. M. Robson** (*Pharmacology Department, Guy's Hospital Medical School, London, S.E.1*).
Analgesic effects produced by sub-anaesthetic doses of some fluorinated compounds.

H. O. J. Collier, A. R. Hammond and **C. Schneider** (*Department of Pharmacological Research, Parke Davis & Co., Hounslow, Middlesex*).
A nociceptive response of the rat to intraperitoneal injection of noxious agents, and its inhibition by analgesic drugs.

J. M. Robson and **F. M. Sullivan** (*Pharmacology Department, Guy's Hospital Medical School, London, S.E.1*).
Teratogenic effects of substances normally present in the body.

Anne U. Tothill (introduced by **J. M. Robson**) (*Pharmacology Department, Guy's Hospital Medical School, London, S.E.1*).
Inhibition of pregnancy and of the oestrous cycle by a series of phenelzine analogues.

E. R. Clark and **Stella R. Gregory** (introduced by **D. R. Wood**) (*Department of Pharmacology, University of Leeds*).
Methylated stilboestrols as possible anti-oestrogens.

J. R. Hodges and **M. T. Jones** (*Department of Pharmacology, Royal Free Hospital School of Medicine, London, W.C.1*).
The effect of corticosteroids on corticotrophic activity in the rat.

H. Barnard and **D. F. Hawkins** (*Obstetric Unit, University College Hospital Medical School, London, W.C.*1).
Some actions of isoxsuprine on the human subject in late pregnancy.

K. Lederis and **A. R. Daniel** (introduced by **H. Heller**) (*Department of Pharmacology, University of Bristol, Bristol* 8).
Effects of ether anaesthesia and haemorrhage on hormone release from the neurohypophysis.

D. Mackay (introduced by **D. R. Wood**) (*Department of Pharmacology, University of Leeds*).
An improved method for the analysis of receptor-agonist interactions.

H. P. Rang (introduced by **W. D. M. Paton**) (*University Department of Pharmacology, Oxford*).
The uptake of acetylcholine-like substances by smooth muscle.

J. M. Telford and **P. A. Nasmyth** (*Department of Pharmacology, St. Mary's Hospital Medical School, London, W.*2).
Drugs affecting 3′,5′-AMP metabolism : their influence on uterine responses to catechol amines

E. Proctor (introduced by **J. B. E. Baker**) (*Department of Pharmacology, Charing Cross Hospital, University of London, W.C.*2).
Adrenergic receptors in the coronary vessels of the isolated heart of the rabbit and rat.

Alison Jowett and **Anne Stafford** (*Department of Pharmacology, London Hospital Medical College*).
Can blockade of uptake of catechol amines explain their potentiation ?

A. M. Barrett (*Research Department, Pharmaceuticals Division, Imperial Chemical Industries Ltd., Alderley Park, Cheshire*).
The effects of some autonomic blocking agents on the heart rates of anaesthetized and pithed rats.

Rosemary I. Hawkins and **K. Hellman** (*Chemotherapy Unit, Imperial Cancer Research Fund, Lincoln's Inn Fields, London, W.C.*2).
Anticoagulants from blood feeders.

R. H. Poyser (introduced by **G. B. West**) (*Pharmacology Department, Brighton College of Technology*).
Studies on the mechanism of action of yeast polysaccharides in producing the anaphylactoid reaction in the rat.

M. Maureen Dale (introduced by **H. O. Schild**) (*Department of Pharmacology, University College. London, W.C.*1).
Anaphylactic tests in tumour antigen studies.

B. B. Newbould and **G. E. Davies** (introduced by **A. Spinks**) (*Research Department, Pharmaceuticals Division, Imperial Chemical Industries Ltd., Alderley Park, Cheshire*).
Chemotherapeutic studies on adjuvant-induced arthritis and allergic encephalomyelitis in rats.

P. A. Berry and **H. O. J. Collier** (*Department of Pharmacological Research, Parke Davis & Co., Hounslow, Middlesex*).
Effect of asprin and related drugs on the anaphylactic contraction of guinea-pig isolated trachea.

Elizabeth E. Shillito (introduced by **K. E. V. Spencer**) (*Wyeth Laboratories, Havant, Hants*).
The effect of drugs on the activity of small mammals living in a wall cage.

P. B. Bradley, B. N. Dhawan and **J. H. Wolstencroft** (*Medical Research Council, Neuropharmacology Research Unit, The Medical School, Birmingham* 15).
Some pharmacological properties of brain-stem neurones.

H. W. Kosterlitz and **D. I. Wallis** (*Physiology Department, University of Aberdeen*).
The effect of morphine on transmission in the superior cervical ganglion of the rabbit.

P. S. J. Spencer and **R. T. Brittain** (*Research Division, Allen & Hanburys Ltd., Ware, Herts.*).
Reserpine-induced depression and its antagonism in the mouse.

W. Dawson, A. Gecse, S. Karady, M. Starr and **G. B. West** (*Pharmacology Department, School of Pharmacy, University of London*).
Bradykinin release in rats subjected to shock.

P. M. Keen (introduced by **H. Heller**) (*Department of Pharmacology, University of Bristol*).
The displacement of anionic drugs from their binding to serum albumin.

S. J. Corne and **R. W. Pickering** (*Department of Pharmacological Research, Parke Davis & Co., Hounslow, Middlesex*).
A possible correlation between drug-induced hallucinations in man and a behavioural response in mice.

A. S. V. Burgen (*Department of Pharmacology, Cambridge*).
The role of ionic interaction in the muscarinic action of acetylcholine.

B. A. Callingham (*University Department of Pharmacology, Cambridge*).
The uptake of (±)-isoprenaline into rat hearts.

K. A. Scott (introduced by **A. S. V. Burgen**) (*Department of Pharmacology, Cambridge*).
Pharmacological actions of sulphur and selenium analogues of compounds related to choline.

A. W. Cuthbert (*University Department of Pharmacology, Cambridge*).
The action of atropine on the responses of the guinea-pig ureter to direct electrical stimulation.

E. K. Matthews (introduced by **H. F. Grundy**) (*Department of Pharmacology, Cambridge*).
The effects of some quaternary ammonium compounds on acetylcholine synthesis and release.

T. J. Biscoe and **R. A. Millar** (introduced by **J. H. Gaddum**) (*A.R.C. Institute of Animal Physiology, Babraham, Cambridge*).
The effect of inhalation anaesthetics on the baroreceptor reflex arc.

D. V. Maudsley and **N. Dawson** (introduced by **G. B. West**) (*Department of Pharmacology, School of Pharmacy, London*).
A possible role of folic acid in histamine metabolism.

P. I. Akubue (introduced by **G. Brownlee**) (*Department of Pharmacology, King's College, Strand, W.C.*2).
The mechanism of action of nicotine and 5-hydroxytryptamine on the circular muscle preparation from the guinea-pig caecum.

D. F. Biggs (introduced by **G. Brownlee**) (*Department of Pharmacology, King's College, Strand, W.C.*2).
The resting release of acetylcholine from the rectus abdominis muscle of the frog.

J. S. Gillespie and **T. C. Muir** (*Institute of Physiology, University of Glasgow, Glasgow, W.*2).
Desensitisation of vascular smooth muscle to infused noradrenaline and to tyramine.

D. J. Boullin, B. B. Brodie and **E. Costa** (introduced by **J. P. Quillam**) (*Laboratory of Chemical Pharmacology, National Heart Institute, Bethesda, Md., U.S.A.*).
Release of [^{3}H]-noradrenaline, [^{3}H]-tyramine and [^{3}H]-guanethidine from sympathetic nerve endings by electrical stimulation.

B. W. Payton (introduced by **J. P. Quillam**) (*Department of Pharmacology, Medical College of St. Batholomew's Hospital, London, E.C.*1).
A pre-synaptic action of gallamine.

D. G. Shand (introduced by **J. P. Quilliam**) (*Department of Pharmacology, Medical College of St. Bartholomew's Hospital, London, E.C.*1).
Effects of depolarizing drugs on the superior cervical ganglion of the rat.

J. R. Tata (introduced by **W. D. M. Paton**) (*National Institute for Medical Research, Mill Hill, London*).
The effect of thalidomide on induced amphibian metamorphosis.

D. A. Chamberlain (introduced by **D. F. J. Mason**) (*Department of Cardiology, St. Bartholomew's Hospital, London, E.C.*1).
Some haemodynamic effects of β-sympathetic blockade.

K. A. P. Edman and **E. Nilsson** (*Department of Pharmacology, The University of Lund, Sweden*).
Effects of digitalis on the dynamics of myocardial contraction.

F. W. Wolff, R. Yabo, J. Viktora, M. Staquet, J. Nabwangu and **A. Drash** (*Division of Clinical Pharmacology, New York Medical College and the Harriet Lane Home, Johns Hopkins Hospital, Baltimore, Md., U.S.A.*).
The effects of diazoxide on insulin release and its use in hypoglycaemic states.

W. Linford Rees (introduced by **J. P. Quilliam**) (*Department of Psychological Medicine, St. Bartholomew's Hospital, London, E.C.*1).
A double-blind controlled clinical trial of nortryptiline in depressive states.

P. V. Cole and **R. C. Birt** (introduced by **J. P. Quilliam**) (*Department for the Administration of Anaesthetics, St. Bartholomew's Hospital, London, E.C.*1).
The effects of closed-circuit halothane anaesthesia.

P. Turner (introduced by **J. P. Quilliam**) (*Department of Medicine, St. Bartholomew's Hospital, London, E.C.*1).
The action of centrally acting drugs on critical flicker fusion frequency.

J. A. McKinna, J. D. Griffiths and **J. E. Ind** (introduced by **J. P. Quilliam**) (*Department of Surgery, St. Bartholomew's Hospital, London, E.C.*1).
The use of intra-arterial nitrogen mustard in the palliation of inoperable malignant disease.

D. A. Brown (introduced by **J. P. Quilliam**) (*Department of Pharmacology, Medical College of St. Bartholomew's Hospital, London, E.C.*1).
Some effects of staphylococcal α-toxin on the cardiovascular system.

D. A. Willoughby, M. N. I. Walters and **W. G. Spector** (introduced by **J. P. Quilliam**) (*Department of Pathology, St. Bartholomew's Hospital, London, E.C.*1).
The pharmacological basis of the irritant action of dimethyl sulphoxide.

R. L. Hodge and **G. C. S. Croop** (introduced by **D. R. Laurence**) (*Department of Human Physiology and Pharmacology, University of Adelaide, S. Australia*).
The use of angiotensin and studies of vascular sensitivity in phaeochromocytoma.

DEMONSTRATIONS

F. O'Grady and **Barbara Smith** (introduced by **J. P. Quilliam**) (*Bacteriology Department, St. Bartholomew's Hospital, London, E.C.*1.)
The effect of nitroxoline on the neuromuscular system of the mouse.

D. G. Green (introduced by **K. E. V. Spencer** (*Wyeth Laboratories, Havant, Hants*).
Improved method for measuring rat paw volume.

A. Herxheimer (*Department of Pharmacology, London Hospital Medical College, London, E.*1).
A new class experiment using eyedrops.

G. Brownlee and **P. L. V. Spriggs** (*Department of Pharmacology, King's College, Strand, W.C.*2).
A simplified method for the routine measurement of dopamine in brain.

P. M. G. Bell (introduced by **N. D. Edge**) (*Department of Pharmacology, Medical College of St. Bartholomew's Hospital, E.C.*1).
An electrically controlled circulation pump.

G. M. Besser (introduced by **J. P. Quilliam**) (*Departments of Pharmacology and Medicine, St. Bartholomew's Hospital, E.C.*1).
Methods for assessment of the psycho-pharmacology of perception in man.

D. A. Brown (introduced by **J. P. Quilliam**) (*Department of Pharmacology, Medical College of St. Bartholomew's Hospital, London, E.C.*1).
Response of sympathetic ganglion cells to drugs after degenerative section of the preganglionic trunk.

R. C. Elliott (introduced by **J. P. Quilliam**) (*Department of Pharmacology, Medical College of St. Bartholomew's Hospital, London, E.C.*1).
The action of phenothiazine and diphenylmethane derivatives on the medullary vasopressor response.

D. B. Pixner and **A. Richens** (introduced by **J. P. Quilliam**) (*Department of Pharmacology, Medical College of St. Bartholomew's Hospital, London, E.C.*1).
A comparison of two methods of cooling the isolated spinal cord of the frog to allow electrical recording at a controlled low temperature.

J. T. Hamilton (introduced by **R. B. Barlow**) (*Department of Pharmacology, Medical School University of Western Ontario, London, Ont., Canada*).
The role of the adrenal medulla in the blood pressure response to carbon dioxide following hexamethonium.

D. L. Tamarind (introduced by **J. P. Quilliam**) (*Department of Pharmacology, Medical College of St. Bartholomew's Hospital, London, E.C.*1).
Electron microscopy of superior cervical ganglion.

J. D. Gasking (introduced by **J. P. Quilliam**) (*May & Baker Research Institute, Dagenham*).
A microscope warm stage with a transistorized control of temperature.

B. N. Davies and **P. G. Withrington** (introduced by **J. P. Quilliam**) (*Department of Physiology, Medical College of St. Bartholomew's Hospital, London, E.C.*1).
The isolated blood-perfused spleen of the dog ; volume changes and output of transmitter in response to sympathetic nerve stimulation.

E. W. Horton and **I. H. M. Main** (*Department of Physiology, Medical College of St. Bartholomew's Hospital, London, E.C.*1).
Central nervous effects of prostaglandins.

G. R. Molson and **J. A. Mackey** (introduced by **J. P. Quilliam**) (*Department of Ophthalmic Optics, Northampton College, London, E.C.*1).
An assessment of the effect of normal therapeutic dosage of promethazine hydrochloride on hand-eye co-ordination.

A. J. Salsbury and **J. A. McKinna** (introduced by **J. P. Quilliam**) (*Departments of Pathology and Surgery, St. Bartholomew's Hospital, London, E.C.*1).
The role of certain substances in the release of malignant cells from carcinoma of the large intestine.

B. N. Catchpole (introduced by **J .P. Quilliam**) (*Department of Surgery, St. Bartholomew's Hospital, London, E.C.*1.).
Experiments on the effects of sympathetic blocking agents on intestinal motility in the cat.

D. E. Clarke, A. Hiscoe, L. N. Hulley, K. Jackson and **G. D. H. Leach** (introduced by **J. E. Olley**) (*Departments of Electrical Engineering and Pharmacy, Bradford Institute of Technology, Bradford* 7).
The use of a transistorized impulse generator for recording the heart rate from isolated and intact preparations.

J. R. Fozard and **G. D. H. Leach** (introduced by **J. E. Olley**) (*Department of Pharmacy, Bradford Institute of Technology, Bradford* 7).
A method for studying drug responses on the pulmonary blood vessels of the anaesthetized rat, and their contribution in interpreting the effects of 5-hydroxytryptamine on the circulation.

A. Miller (introduced by **P. A. Young**) (*Wellcome Research Laboratories, Beckenham, Kent*).
The measurement of ptosis in mice.

D. M. Brown, B. O. Hughes and **K. Wiggins** (*Beecham Research Laboratories, Brockham Park, Surrey*).
An automatic gut bath.

A. W. Lessin (*Pharmacology Laboratory, Roche Products Ltd., Welwyn Garden City, Herts.*).
An apparatus for the determination of blood pressure in the untrained unanaesthetized animal.

A. W. Lessin (*Pharmacology Laboratory, Roche Products Ltd., Welwyn Garden City, Herts.*).
Apparatus for measuring heart rate in groups of mice and its application to the study of various types of drug action.

J. D. P. Graham (*Department of Pharmacology, Institute of Preventive Medicine, Cardiff*).
Epidemiology of acute poisoning.

M. Curwen (introduced by **J. P. Quilliam**) (*Department of Statistics, St. Bartholomew's Hospital, London, E.C.*1).
The design and analysis of a clinical trial. An experiment in class teaching.

D. J. Boullin (introduced by **J. P. Quilliam**) (*Laboratory of Chemical Pharmacology, National Heart Institute, Bethesda, Md., U.S.A.*)
Apparatus for perfusion of isolated tissues with radio-isotopes.