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BRITISH PHARMACOLOGICAL SOCIETY

PROGRAMME OF THE MEETING HELD IN THE DEPARTMENT OF PHARMACOLOGY, TRINITY COLLEGE, DUBLIN

10th to 12th July, 1963

COMMUNICATIONS

T. D. Whittet (*Pharmaceutical Department, University College Hospital, London, W.C.*1).
Some effects of pharmaceutical formulation on drug action.

W. R. Buckett and **C. G. Haining** (*Edinburgh Pharmaceutical Industries Ltd.*).
Some pharmacological studies on the optically active isomers of hyoscine and hyoscyamine.

P. Lees and **Mary F. Lockett** (*Royal Veterinary College, London, N.W.*1).
Some factors modifying the renal effects of unanaesthetized rats to oxytocin.

A. U. Tothill (*introduced by* **J. M. Robson**) (*Department of Pharmacology, Guy's Hospital Medical School, London, S.E.*1).
Effect of amine oxidase inhibitors on the rat uterus.

A. Knifton (*introduced by* **A. Wilson**) (*Department of Pharmacology and General Therapeutics, University of Liverpool*).
The response of the pig uterus to oxytocin.

B. Berde and **K. Saameli** (*Pharmacological Laboratories, Sandoz Ltd., Basle, Switzerland, and Department of Obstetrics and Gynaecology, University of Frankfort, M., Germany*).
On the reliability of bioassay methods for predicting the oxytocic effect of synthetic peptides of the neurohypophysial type on the human uterus *in vivo*.

H. Schumacher, R. L. Smith and **R. T. Williams** (*introduced by* **H. C. Stewart**) (*Department of Biochemistry, St. Mary's Hospital Medical School, London, W.*2).
Metabolites of thalidomide.

G. B. Frank and **H. D. Sanders** (*introduced by* **I. Rollo**) (*Department of Pharmacology and Therapeutics, University of Manitoba, Faculty of Medicine, Winnipeg, Canada*).
Similarities in central nervous system effects of general and local anaesthetics.

H. Reinert (*Department of Pharmacology, Pfizer Ltd., Sandwich, Kent*).
Defence reaction from the nuclei habenulae and stria medullaris.

S. Livingstone, C. L. Kaul and **J. J. Lewis** (*Experimental Pharmacology Division, Institute of Physiology, University of Glasgow*).
The influence of chlorpromazine upon adenine nucleotide levels in the rat brain.

E. C. Savini and **G. K. Narayanan** (*Department de Pharmacologie, Ecole Nationale de Medecine et de Pharmacie, Caen, France*).
Tachyphylaxis to 5-hydroxytryptamine and cholinergic mechanisms.

E. S. Johnson (*introduced by* **G. Brownlee**) (*Department of Pharmacology, King's College, London*).
The release of acetylcholine from the guinea-pig ileum by 5-hydroxytryptamine.

E. Poulson, J. M. Robson and **F. M. Sullivan** (*Department of Pharmacology, Guy's Hospital Medical School, London, S.E.*1).
Teratogenic effects of 5-hydroxytryptamine.

G. W. Ashcroft, D. Eccleston and **T. B. B. Crawford** (*Department of Pharmacology, University of Edinburgh*).
Changes in the concentrations of 5-hydroxyindoles in rat brain following administration of tryptophan.

R. E. Handschumacher and **J. R. Vane** (*Department of Pharmacology, Institute of Basic Medical Sciences, Royal College of Surgeons of England*).
Studies relating contractions and entrance of 5-hydroxytryptamine and tryptamine in smooth muscle.

M. D. Day and **M. J. Rand** (*Department of Pharmacology, School of Pharmacy, University of London, W.C.*1).
Alpha-methyl dopa in reserpine-treated animals.

S. Vanov (*introduced by* **M. J. Rand**) (*Department of Pharmacology, School of Pharmacy, University of London, W.C.*1).
Nicotine and related substances on intestinal preparations.

Margaret Ettles and **R. E. Lister** (*J. F. Macfarlan & Co., Ltd., Edinburgh*).
The assessment of withdrawal symptoms in narcotic dependent rats.

Marta Weinstock and **B. M. Cox** (*introduced by* **H. C. Stewart**) (*Department of Pharmacology, St. Mary's Hospital Medical School, London, W.*2).
Quantitative studies of nalorphine antagonism.

G. Bull and **B. Hemsworth** (*introduced by* **Catherine Hebb**) (*The A.R.C. Institute of Animal Physiology, Babraham, Cambridge*).
The action of triethylcholine (TEC) on the biological synthesis of acetylcholine.

J. R. Parratt (*Department of Physiology, University College, Ibadan, Nigeria*).
The effect of some naturally occurring vasoactive substances on myocardial blood flow.

R. G. Penn (*Department of Pharmacology, Charing Cross Hospital Medical School, London, W.C.*2).
Some factors influencing the recovery of isolated myocardium from acute anoxia.

C. McCarthy (*introduced by* **G. W. Pennington**) (*Department of Pharmacology, Trinity College University of Dublin*).
Studies of chorionic gonadotrophin in normal and pathological conditions.

D. Campbell, R. E. Lister and **G. W. McNicol** (*Departments of Anaesthetics and Biochemistry, Royal Infirmary, Glasgow, and J. F. Macfarlan & Co., Ltd., Edinburgh*).
The quantitative assessment of drug-induced respiratory depression.

R. B. Barlow and **J. T. Hamilton** (*Departments of Pharmacology, Edinburgh, and the University of Western Ontario, London, Ontario*).
Effects of a series of phenoxyalkyltrimethylammonium salts on junctional transmission.

D. F. Biggs (*introduced by* **G. Brownlee**) (*Department of Pharmacology, King's College, London*).
The potentiation of skeletal neuromuscular blockade by anticholinesterase drugs.

M. S. G. Clark (*introduced by* **M. J. Rand**) (*Department of Pharmacology, School of Pharmacy, University of London, W.C.*1).
Actions of some alkaloids from tobacco smoke on neuromuscular junctions and spinal cord.

C. Raper (*introduced by* **W. C. Bowman**) (*Department of Pharmacology, School of Pharmacy, University of London, W.C.*1).
Some agents producing twitch-potentiation in the potassium depressed diaphragm.

B. A. Whittle (*introduced by* **J. W. Black**) (*Imperial Chemical Industries Ltd., Pharmaceuticals Division, Alderley Park, Macclesfield, Cheshire*).
The use of the squirming syndrome in mice for the measurement of anti-inflammatory and analgesic activity.

B. B. Newbould (*introduced by* **G. E. Davies**) (*Imperial Chemical Industries Ltd., Pharmaceuticals Division, Alderley Park, Macclesfield, Cheshire*).
Adjuvant-induced arthritis in rats.

F. Hawking (*National Institute for Medical Research, The Ridgeway, Mill Hill, London, N.W.*7)
The action of acetylcholine and diethylcarbamazine upon the number of microfilariae in the blood.

G. A. H. Buttle and **M. Khayyal** (*Department of Pharmacology, School of Pharmacy, University of London, W.C.*1).
Antimony content of worms and the treatment of schistosomiasis.

R. H. Poyser and **G. B. West** (*Department of Pharmacology, School of Pharmacy, University of London, W.C.*1).
Capillary permeability responses produced by snake venoms.

J. Morley, M. Schachter and **L. H. Smaje** (*Department of Physiology, University College, London, W.C.*1).
The mechanism of vasodilatation in the submaxillary gland.

J. M. Foy and **H. Schnieden** (*Department of Pharmacology, University College, Ibadan, Nigeria*).
The effects of some drugs and hormones on water turnover.

W. C. Bowman, B. A. Callingham and **A. W. Cuthbert** (*Department of Pharmacology, School of Pharmacy, University of London, W.C.*1).
Some electrical and mechanical properties of the cat's nictitating membrane.

H. W. Kosterlitz, J. W. Thompson and **D. I. Wallis** (*Department of Physiology, University of Aberdeen, and Department of Pharmacology, Royal College of Surgeons of England*).
The compound action potential in the nerve supplying the medial muscle of the nictitating membrane.

H. W. Kosterlitz and **D. I. Wallis** (*Department of Physiology, University of Aberdeen*).
The action of morphine-like drugs on impulse transmission in C fibres.

R. F. Carlyle (*introduced by* **G. Brownlee**) (*Department of Pharmacology, King's College, London*).
Is the inherent tone of the guinea-pig tracheal muscle neurogenic or myogenic ?

A. T. Birmingham and **A. B. Wilson** (*introduced by* **G. Brownlee**) (*Department of Pharmacology, King's College, London*).
Preganglionic and postganglionic stimulation of the guinea-pig vas deferens preparation.

J. M. Robson and **F. M. Sullivan** (*Department of Pharmacology, Guy's Hospital Medical School, London, S.E.*1).
Drug toxicity and the foetus.

T. A. Connors, L. A. Elson and **C. L. Leese** (*introduced by* **F. Bergel**) (*Chester Beatty Research Institute, Institute of Cancer Research, Royal Cancer Hospital, London, S.W.*3).
Toxicity and haematological effects of the cytotoxic agent mannitol 'Myleran' and their enhancement by glucose treatment.

T. W. Clarkson (*introduced by* **J. M. Barnes**) (*Toxicology Research Unit, M.R.C. Laboratories, Carshalton*).
Studies on the mechanism of action of mercurial diuretics.

B. Basil, A. M. J. N. Blair and **S. W. Holmes** (*Miles-Ames Research Laboratories, Stoke Court, Stoke Poges, Buckinghamshire*).
Action of sodium 4-hydroxybutyrate on spinal reflexes.

E. W. Horton and **I. H. M. Main** (*Miles-Ames Research Laboratories, Stoke Court, Stoke Poges, Buckinghamshire*).
A pharmacological comparison of four naturally occurring prostaglandins.

R. D. Jackson and **M. L. Conalty** (*introduced by* **G. W. Pennington**) (*Medical Research Council of Ireland*).
Accumulation and crystallization of rimino-phenazines in macrophages.

DEMONSTRATIONS

M. Lambert, C. McCarthy and **G. W. Pennington** (*Department of Pharmacology, Trinity College, University of Dublin*).
Studies of liquor amnii.

G. W. Pennington and **D. Smyth** (*Department of Pharmacology, Trinity College, University of Dublin*).
A column method for the extraction and isolation of small amounts of drugs from urine and saliva.

E. C. Savini (*Departement de Pharmacologie, Ecole Nationale de Medecine et de Pharmacie, Caen, France*).
A linear transistor rate-meter.

K. Martindale and **C. W. M. Wilson** (*Department of Pharmacology, University College, Dublin, and Department of Pharmacology and General Therapeutics, University of Liverpool*).
The role of some central nervous factors in experimental gastric ulceration.

O. Murphy (*introduced by* **G. W. Pennington**) (*Department of Physiology, Trinity College, Dublin*).
An instantaneous heart rate recorder.

O. Murphy (*introduced by* **G. W. Pennington**) (*Department of Physiology, Trinity College, Dublin*).
A transducer for the recording of respiration.

M. Fry and **O. Murphy** (*introduced by* **G. W. Pennington**) (*Department of Physiology, Trinity College, Dublin*).
A fluid level warning system.

J. Grainger and **G. Goldspink** (*introduced by* **G. W. Pennington**) (*Department of Zoology, Trinity College, Dublin*).
The effects of temperature on the frog nerve-muscle preparation.

N. Burton and **K. Shaw** (*introduced by* **G. W. Pennington**) (*Department of Experimental Surgery, Trinity College, Dublin*).
A method of introducing drug aerosols into the pulmonary tree to record effects on respiration.

W. A. A. G. Macbeth (*introduced by* **George Brownlee**) (*Department of Pharmacology, King's College, London*).
The response of the isolated human colon to autonomic drugs.

R. C. Elliot (*introduced by* **J. P. Quilliam**) (*Department of Pharmacology, St. Bartholomew's Hospital Medical College, London, E.C.*1).
Centrally-acting drugs and medullary vasopressor response.

A. Darragh and **M. Shaw** (*introduced by* **G. W. Pennington**) (*Leo Pharmaceuticals Ltd., Dublin*).
The *in vitro* control of fibrinolysis.

L. Wislicki (*introduced by* **A. D. Macdonald**) (*Department of Pharmacology, University of Manchester*).
An electro-magnetic count recorder.

J. J. McCarthy (*introduced by* **G. W. Pennington**) (*Department of Surgery, University College, Dublin*).
Lymphatic perfusion with cytotoxic agents.