

PROCEEDINGS OF THE BRITISH PHARMACOLOGICAL SOCIETY OXFORD

19th to 21st July, 1962

COMMUNICATIONS

A. F. Green and R. D. Robson (*The Wellcome Research Laboratories, Langley Court, Beckenham, Kent*).

Comparative effects of adrenergic neurone blocking agents on responses to stimulating various adrenergic nerves at different frequencies.

J. H. Burn, M. J. Rand and R. Wien (*Biological Laboratories, May and Baker*).

Further evidence for a cholinergic link in adrenergic fibres.

A. B. Wilson (introduced by **G. Brownlee**) (*Pharmacology Department, King's College, London*).

The site of sympathetic inhibition in the guinea-pig small intestine.

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

Adrenergic modulation of cholinergic transmission.

M. J. Davey, J. B. Farmer and H. Reinert (*Department of Pharmacology, Pfizer, Sandwich, Kent*).

The effect of Niamid on adrenergic functions.

J. W. Black (*Imperial Chemical Industries, Pharmaceuticals Division, Research Department, Alderley Park, Macclesfield, Cheshire*).

A new adrenergic beta-receptor blocking agent.

K. Krnjević and J. W. Phillis (introduced by **J. H. Gaddum**) (*A.R.C. Institute of Animal Physiology, Babraham, Cambridge*).

Some actions of indole and catechol amines on cortical neurones.

J. M. van Rossum (*Department of Pharmacology, R.C. University Nijmegen, Holland*).

Action of dopa-analogues in the central nervous system.

A. A. J. Goldberg and C. Raper (introduced by **W. C. Bowman**) (*Department of Pharmacology, School of Pharmacy, University of London*).

Studies on the mechanism of action of adrenaline on skeletal muscle.

C. L. Kaul and J. J. Lewis (*Experimental Pharmacology, Institute of Physiology, Glasgow University*).

The effects of reserpine and some allied compounds upon adenine nucleotide levels in the rat brain.

J. J. Lewis and G. van Petten (*Experimental Pharmacology, Institute of Physiology, Glasgow University*).

The effects of antidepressives and some related compounds upon adenine nucleotide levels in the rat brain.

J. R. C. Baird and J. J. Lewis (*Experimental Pharmacology, Institute of Physiology, Glasgow University*).

The influence of amphetamine and some related compounds upon levels of noradrenaline and dopamine in the rat brain.

L. I. L. Ndika and G. B. West (*Department of Pharmacology, School of Pharmacy, University of London*).

Studies on methylphenidate.

G. F. Somers (*The Distillers Co. (Biochemicals) Liverpool*).

Teratogenic effects of thalidomide.

G. A. H. Buttle and Jean Eperon (*Department of Pharmacology, School of Pharmacy, University of London*).

Embryonic and malignant growth.

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

Direct observation of the effect of drugs on the mouse foetus.

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J. Farrant, Lalitha Kameswaran and G. B. West (*Department of Pharmacology, School of Pharmacy, University of London*).

Drugs affecting rat pregnancy.

A. M. J. N. Blair (*introduced by H. Heller*) (*Department of Pharmacology, Union International Co., London, E.C.1*).

Pharmacological actions of pepsitensin.

D. B. Hope (*introduced by H. Blaschko*) (*Department of Biochemistry, Cornell University Medical College, and Department of Pharmacology, Oxford University*).

The biological activity of analogues of oxytocin lacking basic and acidic groups.

A. K. Armitage and A. C. B. Dean (*Department of Surgery, King's College Hospital Medical School, London, S.E.5*).

In vitro studies on gastric motility.

T. J. Sullivan (*introduced by R. S. Stacey*) (*Department of Pharmacology and Therapeutics, St. Thomas's Hospital Medical School, London, S.E.1*).

The action of ouabain on the isolated guinea-pig uterus.

Session on Clinical Pharmacology

P. T. Nowell, Carol A. Scott and A. Wilson (*Department of Pharmacology and General Therapeutics, University of Liverpool*).

Identification of a metabolic product of neostigmine in the urine of patients with myasthenia gravis.

T. N. Calvey and A. Wilson (*Department of Pharmacology and General Therapeutics, University of Liverpool*).

Quaternary nitrogen compounds in human thymus glands.

J. A. Banks, Sylvia Korte, R. E. A. Mapes and C. W. M. Wilson (*Departments of Pharmacology and General Therapeutics, and Social Science, University of Liverpool*).

The influence of different sources of therapeutic information on prescribing by general practitioners.

W. C. Bowman, B. A. Hemsworth and M. J. Rand (*Department of Pharmacology, School of Pharmacy, University of London*).

A possible explanation of the 'dual block' produced by prolonged administration of depolarizing drugs.

W. A. M. Duncan and J. Raventos (*Imperial Chemical Industries, Pharmaceuticals Division, Alderley Park, Macclesfield, Cheshire*).

The uptake of anaesthetics during hypothermia and controlled respiration.

D. E. Evans (*introduced by F. W. Landgrebe*) (*Anaesthetics Laboratory, Welsh National School of Medicine, Cardiff*).

Some factors influencing the effects of morphine and nalorphine on guinea-pig ileum.

K. Hellman (*Department of Pharmacology, Royal College of Surgeons of England, London, W.C.1; Visiting Worker from Reckitt and Sons, Hull*).

The effect of drugs on isolated skin.

P. C. Elmes and Deirdre Bell (*introduced by J. D. P. Graham*) (*The Department of Therapeutics and Pharmacology, Queen's University of Belfast*).

The effect of chlorine on the lungs of rats free from chronic pulmonary disease.

O. L. Wade, T. King, P. Busby and Deirdre Bell (*introduced by J. D. P. Graham*) (*The Department of Therapeutics and Pharmacology, Queen's University of Belfast*).

Lung volume and arterial blood gas contents of rats with and without pulmonary disease.

B. N. Halpern (*Chaire de Medecine Experimentale, College de France, Paris*).

Inhibition of passive anaphylactic sensitization with neutral gamma globulins.

A. M. Karrar and J. D. P. Graham (*Department of Pharmacology, Welsh National School of Medicine, Cardiff*).

Inhibition of histamine-induced gastric acidity.

R. Hicks (*introduced by Jean E. Olley*) (*Bradford Institute of Technology*).

A quantitative method for the assessment of anaphylactic responses.

V. O. Marquis and W. G. Smith (*Research Laboratory in Biochemical Pharmacology, Sunderland Technical College*).

A comparative study of histamine release in guinea-pig lung.

P. Goadby and W. G. Smith (*Research Laboratory in Biochemical Pharmacology, Sunderland Technical College*).

Effects of anti-inflammatory steroids on anaphylaxis in guinea-pig lung.

D. M. Anderson, P. Goadby and W. G. Smith (*Research Laboratory in Biochemical Pharmacology, Sunderland Technical College*).

The column chromatographic separation of lipid-free SRS-A.

D. M. Anderson and W. G. Smith (*Research Laboratory in Biochemical Pharmacology, Sunderland Technical College*).

Distribution of neuraminic acid in the respiratory tree of the guinea-pig.

R. F. Carlyle (*introduced by G. Brownlee*) (*Pharmacology Department, King's College, London*).

The release of substances from the trachea during transmural stimulation.

E. S. Johnson (*introduced by G. Brownlee*) (*Pharmacology Department, King's College, London*).

The site of action of 5-hydroxytryptamine on the guinea-pig small intestine.

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

Uptake of ^{14}C -5-hydroxytryptophan by brain slices.

A. W. Lessin and M. W. Parkes (*Pharmacological Laboratory, Roche Products Ltd., Welwyn Garden City*).

Correlations between brain serotonin levels and certain pharmacological effects in mice.

E. Poulson, J. M. Robson and J. Senior (*Department of Pharmacology, Guy's Hospital Medical School, London, S.E.1*).

5-Hydroxytryptamine levels in uterine contents in relation to action of drugs on pregnancy.

M. H. Draper, H. Friebe and K. Karzel (*introduced by R. P. Stephenson*) (*Department of Physiology, University of Edinburgh, and Department of Pharmacology, University of Bonn*).

Interaction of cocaine and strophanthine G with calcium on the membrane potential of frog sartorius muscle fibres.

Anne Stafford (*introduced by M. Weatherall*) (*Department of Pharmacology, The London Hospital Medical College, London, E.1*).

Adrenaline, adrenergic blocking drugs and potassium movements in rabbit auricles.

Rosemary Cass, T. L. B. Spriggs and M. A. Stockham (*introduced by G. B. West*) (*Department of Pharmacology, School of Pharmacy, University of London*).

The effect of urethane and phenobarbitone on the adrenal glands of rats.

R. E. A. Mapes and C. W. M. Wilson (*Department of Pharmacology and General Therapeutics, University of Liverpool*).

The effect of thalidomide on social group activity in mice.

P. S. J. Spencer (*introduced by G. B. West*) (*Department of Pharmacology, School of Pharmacy, University of London*).

Role of the adrenal cortex in thyroid-induced changes in histamine sensitivity.

K. A. Scott and R. P. Stephenson (*Department of Pharmacology, University of Edinburgh Medical School*).

Agonist and antagonist activity of compounds related to acetylcholine.

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

Worm shifts and the treatment of schistosomiasis.

J. M. Robson and S. T. Cygielman (*Department of Pharmacology, Guy's Hospital Medical School, London, S.E.1*).

Corneal method in the investigation of anti-inflammatory substances.

A. S. Milton (*introduced by T. B. B. Crawford*) (*Department of Pharmacology, Stanford University School of Medicine, California, U.S.A.*).

Metabolic changes associated with the development of resistance to amethopterin in mouse fibroblasts growing in culture.

E. W. Gill and J. A. Parsons (*introduced by W. D. M. Paton*) (*University Department of Pharmacology, Oxford*).

Pharmacology of pyruvylcholine.

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P. Gorog and L. Szporny (introduced by **M. Vogt**) (*Chemical Works of Gideon Richter, Budapest, Hungary*).

An analysis of the pharmacological action of Vincamin.

DEMONSTRATIONS

J. W. Phillis (introduced by **J. H. Gaddum**) (*A.R.C. Institute of Animal Physiology, Babraham, Cambridge*).

The assay of neuropharmacological agents on the isolated frog spinal cord.

G. Paterson (introduced by **G. Brownlee**) (*Pharmacology Department, King's College, London*).

The measurement of the contractile responses of tissues.

J. Hayden and A. W. Macfarlane (introduced by **J. D. P. Graham**) (*Nicholas Research Institute, Wexham, Slough, Bucks*).

Analgesic methods in the mouse.

S. Kurzepa (introduced by **H. Blaschko**) (*University Department of Pharmacology, Oxford*).

The effect of 4-picolyllamine on the responses of the guinea-pig ileum to histamine.

A. Hughes and R. S. Tonks (*Department of Pharmacology, Welsh National School of Medicine, Cardiff, and Nevill Hall Hospital, Abergavenny*).

Heart and lung lesions resulting from intravascular platelet clumping.

B. A. Callingham and M. S. G. Clark (introduced by **G. B. West**) (*Department of Pharmacology, School of Pharmacy, University of London*).

The chemical estimation of dopamine in tissues.

W. W. Mapleson (introduced by **J. D. P. Graham**) (*Department of Anaesthetics, Welsh National School of Medicine, Cardiff*).

An electrical analogue for the uptake and distribution of anaesthetic agents.

V. Kovalcik (introduced by **G. S. Dawes**) (*Nuffield Institute for Medical Research, Oxford*).

The action of oxygen and of drugs on the isolated ductus arteriosus and adjacent blood vessels.

J. O. Molloy and W. E. Ormerod (*Department of Parasitology, London School of Hygiene and Tropical Medicine*).

The mode of penetration and distribution of drugs in trypanosomes: a study by electron microscopy.

H. C. Stewart and A. E. B. Matthews (*Department of Pharmacology, St. Mary's Hospital Medical School, London*).

A method of recording and correlating the response patterns to a painful stimulus.

J. A. Parsons (introduced by **W. D. M. Paton**) (*University Department of Pharmacology, Oxford*).

Toxins extracted from *Poecilocus bufonius*, a poisonous locust.

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

Electropharmacology of single glial cells.

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

The analysis of drug action at the neuromuscular junction.

R. N. Speden (introduced by **W. D. M. Paton**) (*University Department of Pharmacology, Oxford*).

The action of anaesthetics on the coaxially stimulated guinea-pig ileum.

B. S. Sasamori (introduced by **W. D. M. Paton**) (*University Department of Pharmacology, Oxford*).

A semi-conductor strain gauge tension recorder.

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

The use of an analogue computer for the solution of mass action equations.

J. A. Parsons and D. R. Waud (introduced by **W. D. M. Paton**) (*University Department of Pharmacology, Oxford*).

A 120-milliamp counting square wave stimulator.

D. J. Boullin and P. B. Marshall (*Department of Materia Medica and Therapeutics, Queen's College, Dundee*).

A film. Behaviour of tryptophan deficient rats.