

## PROCEEDINGS OF THE BRITISH PHARMACOLOGICAL SOCIETY

ROYAL COLLEGE OF SURGEONS OF ENGLAND, LONDON

5th to 7th January, 1961

### COMMUNICATIONS

**P. B. Bradley** and **E. Marley** (*Department of Experimental Psychiatry, The Medical School, Birmingham, 15*).

Effects of tryptamine and some tryptamine analogues on cerebral electrical activity.

**E. Marley** and **J. R. Vane** (*Department of Pharmacology, Royal College of Surgeons of England, London, W.C.1*).

The effects of some tryptamines on spinal reflexes.

**S. J. Corne** (*Department of Pharmacological Research, Parke, Davis & Co., Hounslow, Middlesex*).

Some actions of tryptamine and its homologues  $\alpha$ -methyltryptamine and  $\alpha$ -ethyltryptamine.

**G. V. R. Born** and **J. R. Vane** (*Department of Pharmacology, Royal College of Surgeons of England, London, W.C.1*).

The penetration of labelled tryptamine and 5-hydroxytryptamine into smooth muscle.

**J. Thuillier** (*introduced by P. B. Bradley*) (*Clinique des Maladies Mentales, Faculté de Médecine, Paris*).

Pharmacological aspects of dimethylaminoethylic ester of *p*-chlorophenoxyacetic acid (centrophenoxine).

**H. O. J. Collier** and **B. T. Warner** (*Department of Pharmacological Research, Parke, Davis & Co., Hounslow, Middlesex*).

A multiple toe-pinch method of evaluating analgesics.

**N. Ambache** and **M. Reynolds** (*Department of Physiology and Medical Research Council, Royal College of Surgeons of England, London, W.C.1*).

Differences in fatty acid receptors.

**Barbara Boughton** and **H. O. Schild** (*Pharmacological Laboratory, University College, London, W.C.1*).

Passive transfer of delayed hypersensitivity in testis autosenitization.

**K. A. P. Edman** and **J. L. Mongar** (*Pharmacological Laboratory, University College, London, W.C.1*).

The essential role of S-H and S-S groups in the anaphylactic reaction.

**K. A. P. Edman** and **H. O. Schild** (*Pharmacological Laboratory, University College, London, W.C.1*).

Effects of calcium in depolarized smooth muscle.

**P. Acred**, **D. M. Brown**, **D. H. Turner** and **D. Wright** (*Research Division, Beecham Research Laboratories, Betchworth, Surrey*).

Absorption, distribution and elimination of 2: 6-dimethoxyphenyl penicillin (B.R.L. 1241).

**P. F. D'Arcy** and **E. M. Howard** (*Research Division, Allen & Hanburys, Ware, Herts*).

The relative acute oral toxicity of ferrous salts in dogs.

**R. T. Brittain, H. O. J. Collier and P. F. D'Arcy** (*Research Division, Allen & Hanburys, Ware, Herts*).

Some observations on  $\gamma$ -oxalolaudonium bromide—a new neuromuscular blocking drug.

**A. L. A. Boura and A. F. Green** (*The Wellcome Research Laboratories, Beckenham, Kent*).

Some effects of adrenergic neurone blockade on responses to sympathomimetic amines.

**M. F. Sim and A. F. Green** (*The Wellcome Research Laboratories, Beckenham, Kent*).

The effects on diuresis in rats of compounds that modify sympathetic actions.

**Doreen M. Anderson and W. G. Smith** (*Pharmacy Department, Sunderland Technical College, Co. Durham*).

The antitussive activity of glycyrrhetic acid and some of its water-soluble derivatives.

**J. M. Thorp** (*Pharmaceuticals Division, Imperial Chemical Industries, Macclesfield, Cheshire*).

Seasonal variation: a factor in the interpretation of certain biological tests.

**J. Raventós** (*Pharmaceuticals Division, Imperial Chemical Industries, Macclesfield, Cheshire*).

On halothane hypotension.

**A. Spinks** (*Pharmaceuticals Division, Imperial Chemical Industries, Macclesfield, Cheshire*).

Rapid colorimetric estimation of monoamine oxidase and 5-hydroxytryptophane decarboxylase.

**M. J. Rand** (*Department of Pharmacology, School of Pharmacy, London, W.C.1*).

The action of hemicholinium (HC3) on sympathetic nerve transmission.

**J. M. Telford** (*introduced by G. B. West*) (*Department of Pharmacology, The School of Pharmacy, London, W.C.1*).

Adrenal cortical steroids, histamine liberators and histamine formation in the rat.

**J. M. Harris** (*introduced by G. B. West*) (*Department of Pharmacology, School of Pharmacy, London, W.C.1*).

The anaphylactoid reaction in rats.

**M. Gelfand and G. B. West** (*Department of Pharmacology, School of Pharmacy, London, W.C.1*).

Studies with two methyl derivatives of lysergic acid.

**A. R. Muir and L. Golberg** (*Department of Anatomy, University of Edinburgh, and Benger Laboratories Ltd., Holmes Chapel, Cheshire*).

An electron microscopic study of the metabolism of iron-dextran.

**A. W. Cuthbert and L. C. Blaber** (*introduced by G. A. H. Buttle*) (*Department of Pharmacology, School of Pharmacy, London, W.C.1*).

Hen cholinesterases studied *in vitro*.

**R. W. Ryall** (*introduced by R. Wien*) (*May & Baker, Dagenham, Essex*).

Some effects of central nervous system stimulant drugs on the cat's nictitating membrane.

**D. R. Maxwell, W. R. Gray and E. M. Taylor** (*introduced by R. Wien*) (*May & Baker, Dagenham, Essex*).

The relative activity of some inhibitors of monoamine oxidase in potentiating the action of tryptamine *in vitro* and *in vivo*.

**V. C. Abrahams and S. M. Hilton** (*introduced by W. Feldberg*) (*National Institute for Medical Research, Mill Hill, London, N.W.7*).

Actions of decamethonium on sympathetic and parasympathetic neurones.

**P. Withrington and Eleanor Zaimis** (*Department of Pharmacology, Royal Free Hospital School of Medicine, London, W.C.1*).

Evaluation of local anaesthetic drugs.

**J. D. Harry** (*introduced by G. Brownlee*) (*Department of Pharmacology, University of London King's College, London, W.C.2*).

The effect of cooling, local anaesthetics and botulinum toxin on the ACh output of the transmurally stimulated isolated guinea-pig ileum.

**G. W. Pennington and N. Jackson** (*introduced by A. Wilson*) (*Department of Pharmacology and General Therapeutics, University of Liverpool*).

The detection of doping substances in racehorses.

**F. R. Domer and V. G. Longo** (*Istituto Superiore di Sanita, Rome*).

The electro-encephalographic effects of 5-hydroxytryptophan in rabbits.

#### Session on Clinical Pharmacology

**D. R. Laurence and R. E. Nagle** (*University College Hospital Medical School, London, W.C.1*).

Observations on the interaction of bretylium, adrenaline and noradrenaline.

**D. Alexander, W. W. Buchanan, J. Crooks and D. Koutras** (*Department of Medicine, Western Infirmary, Glasgow, and Department of Materia Medica and Therapeutics, University of Aberdeen*).

The effects of d-thyroxine on thyroid function in man.

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

The urinary excretion of neostigmine and pyridostigmine in patients with myasthenia gravis.

**Pamela M. Huby and C. W. M. Wilson** (*Department of Pharmacology and General Therapeutics, University of Liverpool*).

Drug administration and suggestibility.

**H. Wilson** (*Department of Pharmacology and General Therapeutics, University of Liverpool*).

Some observations on patients with phaeochromocytomas.

**E. M. Glaser** (*introduced by A. Herxheimer*) (*Department of Physiology, The London Hospital Medical College, London, E.1*).

Subjective effects in students of different doses of hyoscine hydrobromide by mouth.

#### DEMONSTRATIONS

**W. C. Bowman, M. J. Rand and D. Tulett** (*Department of Pharmacology, School of Pharmacy, London, W.C.1*).

An isolated nerve-muscle bath suitable for electrical recording.

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

The quantitative estimation of stimulant activity in mice.

**J. W. Thompson** (*Department of Pharmacology, Royal College of Surgeons of England, London, W.C.1*).

The nictitating membrane of the cat as an isolated nerve-smooth muscle preparation.

**Margaret Day and J. P. Green** (*Department of Pharmacology, Royal College of Surgeons of England, London, W.C.1*).

The uptake and synthesis of amines by neoplastic mast cells in culture.

**J. E. Gardiner** (*Department of Pharmacology, Royal College of Surgeons of England, London, W.C.1*).

A method for increasing the sensitivity of the frog rectus to acetylcholine.

**C. Schneider** (*Department of Pharmacological Research, Parke, Davis & Co., Hounslow, Middlesex*).

The effects of morphine-like drugs in chicks.

**J. G. Bainbridge and K. E. Wiggins** (*introduced by David M. Brown*) (*Research Division, Beecham Research Laboratories, Betchworth, Surrey*).

An apparatus for recording blood pressure on the penoscillograph.

**J. G. Bainbridge and K. E. Wiggins** (*introduced by David M. Brown*) (*Research Division, Beecham Research Laboratories, Betchworth, Surrey*).

A simple method for recording respiration on the penoscillograph.

**J. D. Haines** (*introduced by G. W. Cambridge*) (*Wyeth Laboratories, Havant, Hants.*).

A simple inexpensive electro-mechanical valve.

**P. Withrington and Eleanor Zaimis** (*Pharmacology Department, Royal Free Hospital School of Medicine, London, W.C.1*).

A method for estimating local anaesthetic activity.

**G. J. Cunningham, L. Bitensky, J. Chayen, P. Gahan and A. A. Silcox** (*introduced by G. V. R. Born*) (*Department of Pathology, Royal College of Surgeons of England, London, W.C.1*).

Histochemical methods of investigating toxic effects in liver.

**G. J. Cunningham, J. Chayen, L. Bitensky and A. A. Silcox** (*introduced by G. V. R. Born*) (*Department of Pathology, Royal College of Surgeons of England, London, W.C.1*).

Studies of response of mitochondria to toxic agents.

**G. J. Cunningham, L. Bitensky and A. A. Silcox** (*introduced by G. V. R. Born*) (*Department of Pathology, Royal College of Surgeons of England, London, W.C.1*).

The metabolism of a carcinogen.

**A. A. Barton** (*introduced by G. V. R. Born*) (*Department of Anatomy, Royal College of Surgeons of England, London, W.C.1*).

Electron micrographs of degenerating nerve.

**D. H. Tompsett** (*introduced by G. V. R. Born*) (*Department of Anatomy, Royal College of Surgeons of England, London, W.C.1*).

Casts of the cerebral circulation (cat, dog and human).

**R. A. Butler** (introduced by **G. V. R. Born**) (*Department of Anaesthetics, Royal College of Surgeons of England, London, W.C.1*).

The estimation by gas chromatography of low concentrations of volatile anaesthetics in gas mixtures and in tissue fluids.

**D. W. Hill** (introduced by **G. V. R. Born**) (*Department of Anaesthetics, Royal College of Surgeons of England, London, W.C.1*).

The estimation of halothane, diethyl ether and carbon dioxide by infra-red analysis.

**H. Ghaleb** (introduced by **G. A. H. Buttle**) (*School of Pharmacy, Brunswick Square, London, W.C.1*).

Metabolism of stilboestrol of the effects of prolonged administration in the hamster.

**H. Ghaleb** (introduced by **G. A. H. Buttle**) (*School of Pharmacy, Brunswick Square, London, W.C.1*).

Metabolism of the bi-phosphate ester of stilboestrol in carcinoma of the prostate.