

BRITISH AND GERMAN PHARMACOLOGICAL SOCIETIES MEETING

PROGRAMME OF THE JOINT SUMMER MEETING HELD AT CAMBRIDGE

September 6, 7 and 8, 1967

GADDUM MEMORIAL LECTURE

W. W. DOUGLAS (*New York*)

STIMULUS-SECRETION COUPLING. CLUES FROM THE CHROMAFFIN CELL.

SYMPOSIUM

MOLECULAR ASPECTS OF DRUG ACTION

Chairman, **M. VOGT** (*Babraham*)

M. Waring (*Cambridge*).

Intercalation into DNA.

H. Remmer (*Tübingen*).

Die Enzymsubstratkomplexe zwischen einer mikrosomalen Hydroxylase der Leber und verschiedenen Arzneimitteln.

G. Senft (*Berlin*).

Hormonal control of carbohydrate and lipid metabolism and drug induced alterations.

A. S. V. Burgen (*Cambridge*).

Anaesthetics and cell membranes.

COMMUNICATIONS

R. Lindmar, K. Löffelholz and E. Muscholl (*Mainz*).

The interference of muscarinic receptors with noradrenaline release from sympathetic nerve endings caused by nicotinic agents.

E. S. Vizi (*Oxford*).

The inhibitory action of noradrenaline and adrenaline on release of acetylcholine from guinea-pig ileum longitudinal strips.

R. A. Gillis and W. Falcke (*Boston*).

Dual transmission in the stellate ganglion of the dog.

J. H. Burn (*Harrogate*).

Development of sympathetic adrenergic fibres.

J. D. P. Graham, J. D. Lever, T. L. B. Spriggs (*Cardiff*).

Evidence against the participation of acetylcholine in transmission at sympathetic adrenergic nerve terminals.

J. Hughes (*London*).

Potentialiation by veratrine of the responses of isolated vascular tissue to tyramine and sympathetic nerve stimulation.

A. Philippu and H. J. Schumann (*Essen*).

The influence of calcium on the noradrenaline release from nerve granules.

H. Balzer and M. Makinose (*Heidelberg*).

The inhibition of the sarcoplasmic calcium pump produced by agents which react with its lipid component: reserpine, prenylamine, chlorpromazine and imipramine.

H. Reuter and N. Seitz (*Mainz*).

The ionic dependence of calcium efflux from guinea-pig auricles.

G. Fulgraff, O. Heidenreich, A. Meiforth and E. Sparwald (*Freiburg*).

Effect of increased Ca^{++} concentrations on reabsorptive capacity, transit time and fractional reabsorption in the proximal tubule of the rat.

G. F. Blane and A. L. A. Boura (*Hull*).

Analgesic and other actions of morphine antagonists.

P. Armitage, Ruth Rushton and Hannah Steinberg (*London*).

Interactions of chlordiazepoxide and dexamphetamine in rats.

C. R. B. Joyce, K. R. Hammond, Lyn Pan and D. D. Varonos (*London, Athens, Boulder*).

A laboratory investigation of the effect of alcohol upon attempts to reach agreement.

H. Coper, D. v. Herrath and J. Veit (*Berlin-Dahlem*).

Zum Mechanismus der schlafverlängernden Wirkung von Antimetaboliten des Nicotinsäureamids.

I. Jurna (*Homburg/Saar*).

Reserpine rigidity in the rat—a model for the analysis of anti-Parkinson drugs.

A. S. Milton (*London*).

Some central and peripheral actions of suberyl-di-choline.

M. H. T. Roberts and D. W. Straughan (*Edinburgh*).

Actions of noradrenaline and mescaline on cortical neurones.

A. S. Marshall and Marta Weinstock (*London*).

The role of the sympathetic nervous system in mediating the action of analgesic drugs on the lens

H. Grobecker, D. Palm and P. Holtz (*Frankfurt am Main*).

Adrenergische und “antiadrenergische” Wirkungen von Prenylamin.

A. M. Barrett, A. F. Crowther, D. Dunlop, R. G. Shanks and L. H. Smith (*Macclesfield*).

Cardio-selective β -blockade.

I. Brick, K. J. Hutchinson, I. C. Roddie and R. G. Shanks (*Belfast*).

Cardiac adrenergic blockage by 4-(2-hydroxy-3-isopropylaminopropoxy) acetanilide.

L. L. Iversen (*Cambridge*).

Characteristics of noradrenaline uptake in iris/ciliary body and other peripheral tissues of the rat.

P. F. Coville and J. M. Telford (*Brighton*).

Influence of thyroid hormones on the responses of smooth muscle to drugs.

H. Greim and H. Uehlake (*Tübingen*).

Stimulation of kidney microsomal drug metabolism by Phenobarbital.

Ingeborg Frey, H. Greim, H. Remmer and Magda Zange (*Tübingen*).

Die Beschleunigung der Leberregeneration durch Pharmaka.

B.-R. Balda, H.-J. Merker, D. Neubert and E. Oberdisse (*Berlin-Dahlem*).

Biochemical studies on the nucleic acid metabolism of embryonic tissue and the effect of drugs.

K. Gauri, G. Malorny and J. Pette (*Hamburg*).

Antiviral properties of non-nucleosidal alkylated pyrimidines against DNA and RNA viruses.

Margarethe Holzbauer (*Babraham*).

A comparison of the concentrations of steroids in the adrenal gland with the rates of their secretion.

R. Fumagalli, R. Niemiro and R. Paoletti (*Milan*).

Drug induced modifications of brain sterol composition in growing rats.

H. Goergen, M. Kramer and E. Schulze (*Berlin*).

Production of spontaneous diabetes in rats by the treatment of the parent generations with alloxan.

G. Rentsch (*Basel*).

Development of Heinz bodies and their biochemical properties.

L. Hedler and P. Marquardt (*Freiburg*).

Über das Vorkommen von Nitrosaminen in Nahrungs- und Futtermitteln.

A. W. Cuthbert and Elizabeth Painter (*Cambridge*).

Changes in cellular membranes caused by antidiuretic hormone (ADH) as revealed by voltage transients applied to frog skin.

M. D. Day and D. A. A. Owen (*Brighton*).

The interaction between angiotensin and sympathetically-induced vasoconstriction in the isolated perfused central ear artery of the rabbit.

K. Hochstrasser, A. Schmal and E. Werle (*Munich*).

Über Wirkstoffe des Colostrums.

K. K. F. Ng and J. R. Vane (*London*).

The conversion of angiotensin I to angiotensin II *in vivo*.

H. O. J. Collier and Priscilla J. Piper (*London*).

Curtailment by aspirin and fenamates of hypotension induced by bradykinin in the guinea-pig.

J. Bartels, W. Vogt and G. Wille (*Göttingen*).

Prostaglandin release from and formation in perfused frog intestine.

J. Schuster (*Freiburg*)

Zur Analyse der Tachyphylaxie des Histamin-liberators 48/80.

W. Bernauer, H. Giertz and F. Hahn (*Freiburg*).

On the cause of the different sensitivity to antihistaminics (mepyramine) of anaphylactic, histamine and anaphylatoxin shock.

K. P. Bethge, G. Moritz and W. Schmutzler (*Freiburg*)

Release of histaminase and its re-synthesis in the guinea-pig liver.

D. T. P. Davies, A. Hughes and R. S. Tonks (*Cardiff*).

Salicylates, platelets and adenine nucleotides.

G. V. R. Born (*London*).

The uptake of adrenaline by human blood platelets.

S. Cockrill, A. R. Somerville and B. A. Whittle (*Alderley Park*).

The action of antidepressants on the uptake of 5-HT by platelets; a comparison with other tests for antidepressant activity.

E. Seifen (*Homburg/Saar*).

Positive chronotropic effect of ouabain on the isolated, spontaneously beating guinea-pig atrium.

H. Lullman and R. Weber (*Kiel*).

Inhibition of cardiac glycoside-induced arrhythmia by phenytoin.

M. Siess (*Marburg/Lahn*).

Effects on efficiency and consumption of C¹⁴-glucose and C¹⁴-hexanoate (capronate) in resting and beating isolated atria of guinea-pigs.

L. Magos (*Carshalton*).

Transport of elemental mercury by blood.

DEMONSTRATIONS

H. G. Classen and M. Spath (*Freiburg*).

Kontinuierliche fluorometrische Bestimmung von Calcium im Vollblut von Katzen nach Infusion von Natrium-Citrat.

B. Basil (*Dagenham*).

A general purpose programmer for the laboratory.

J. Hamacher, D. K. Majumdar and R. Mies (*Cologne*).

Die mathematische Analyse der Kurve des intraventrikulären Druckablaufes, ihre Deutung und ihre Anwendung in der experimentellen und der klinischen Pharmakologie.

D. A. Brown, L. J. Roth and W. E. Stumpf (*London and Chicago*).

Autoradiographic location of soluble, diffusible drugs in ganglia.

K. Zurz and H. Fasching (*Munich*).

The permeation of drugs across the placental barrier.

R. Abraham, W. Dawson and S. D. Cangolli (*Carshalton*).

The isolated perfused rat liver in toxicological studies.

S. Huković and P. Stern (*Sarajevo*).

The effect of transmural stimulations and drugs on the frog's lung *in vitro*.

B. J. Jones and D. J. Roberts (*Portsmouth*).

A rotarod suitable for quantitative measurements of motor incoordination in naive mice.

N. Klissiumis, K. Kanakis and I. Dosi (*Athens*).

Beiträge zur Wirkung des Ergotamins auf die Körpertemperatur verschiedener Tiere.

R. J. Eden and R. Fielden (*Welwyn*).

Measurement of the cardiac output of anaesthetized rats by a thermal dilution method.

E. Muscholl and K. H. Rahn (*Mainz*).

Studies on the formation of α -methylnoradrenaline in hypertensive patients treated with α -methyldopa.

B. Hemsworth and J. F. Mitchell (*Cambridge*).

The characteristics of acetylcholine release mechanisms in the auditory cortex.

H. Wagner and H. Kewitz (*Berlin-Dahlem*).

Incorporation of labelled orotic acid into liver RNA and some of its precursors.

H. W. Kosterlitz, G. M. Lees and D. I. Wallis (*Aberdeen*).

The production in the isolated superior cervical ganglion of a "synaptic potential" by sucrose and its use for pharmacological investigations.

H. Kewitz and E. Schlede (*Berlin-Dahlem*).

Distribution and elimination of hexamethylenetetramine in rats.

D. R. Maxwell and Gemma Noblet (*Dagenham*).

Effect of phenothiazine derivatives on decerebrate rigidity.

K. Dross and H. Kewitz (*Berlin-Dahlem*).

Effect of cholinesterase inhibitors on the metabolism of acetylcholine in brain.

H. Winkler and A. D. Smith (*Oxford*).

Mechanism of secretion of the adrenal medulla.

J. Selecky (*Prague*).

Seasonal variability problems of cardiotoxicity in guinea pigs.

M. Siess (*Marburg/Lahn*).

Demonstration of a method to investigate influence of drugs on efficiency and consumption of substrates of energy metabolism in resting and beating isolated heart muscle preparations.

G. Tauberger and K. Karzel (*Bonn*).

Über die Bedeutung der extrazellulären K^+ -Konzentration für die Cyanidwirkung am Herz- und Skelettmuskel.