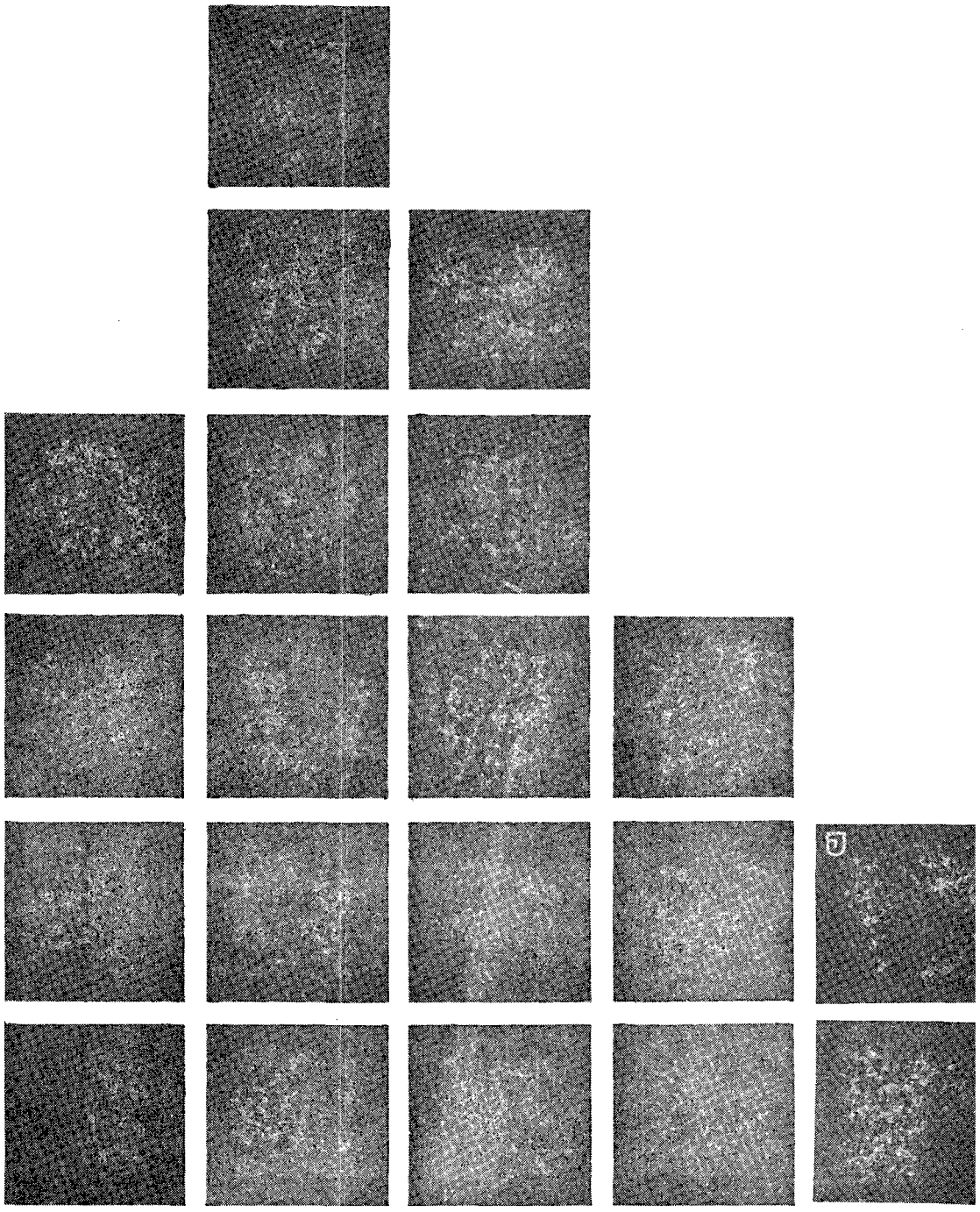
神経化学

VOL. 2 NO. 6 DECEMBER 1963



神 経 化 学 懇 話 会

—学 会—

2ND INTERNATIONAL PHARMACOLOGICAL MEETING

Prague, Czechoslovakia, August 20-23, 1963

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Section on pharmacology of the
international union of
physiological sciences
(SEPHAR)

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Titles taken from:
Supplement to Vol. 12 of
Biochemical Pharmacology

Plenary Scientific Session

1. The sympathetic postganglionic fibre (Burn J.H.)
2. Chemoreflexes in physiology and pharmacology (Heymans C.)
3. The role of presynaptic membrane in the physiology and pharmacology of neuromuscular transmission (Kumagai H.)
4. Ephedrine after forty years (Schmidt C.F.)
5. Pharmacology of coronary circulation (Zakusov V.V.)

Symposia

S 1. Symposium on pharmacology of conditioning, learning and retention

S 2. Symposium on biochemical and neurophysiological correlation of centrally acting drugs

S 3. Symposium on pharmacology of cholinergic and adrenergic transmission

S 4. Symposium on drugs and enzymes

S 5. Symposium on pharmacology of cardiac function

S 6. Symposium on pharmacology of smooth muscle

S 7. Symposium on pharmacology of oriental plants

S 8. Symposium on evaluation of new drugs in man

S 9. Symposium on recent advances in the pharmacology of toxins

S 10. Symposium on oxytocin, vasopressin, and their structural analogues

S 11. Respiratory Session

S C. Short communications on various topics, including papers with some relation to the symposia.

S 1. Symposium on pharmacology of conditioning, learning and retention

Pavlov's methods of conditioned reflexes in pharmacology (Anichkov S.V.)

Action des substances psychotropes sur le comportement de l'animal en situation libre (Boissier J.R.)

The spontaneous exploratory reactions as a tool for pharmacological studies (Lát J.)

Pharmacologie des réactions conditionnées instrumentales d'évitement (Bovet D. & Gatti G.L.)

Pharmacology of reward conditioning and discrimination (Dews P.B.)

L'apprentissage aigu:methode d'étude des agents psychotropes (Jacob J.)

Some observations on acute learning in rats (Izquierdo I.)

Pharmacology of spontaneous and conditioned behavior in monkeys (Delgado J.M.R.)

Mechanisms underlying retention of information in animals (Jarvik M.E. & Byck R.)

Experimental neurosis as a method for screening of psychotropic drugs (Jacobsen E.)

Pharmacology of the multiple concurrent motivations (Beccari E. & Molinengo L.)

Amphetamine-induced changes in behaviour of small laboratory snimals as simple tests for evaluation of central effects of new drugs (Lapin I.P. & Schelkunov E.L.)

The "specific activation" of the central nervous system and its significance in psychopharmacological research (Knoll J.)

A method for demonstration of the effect of serotonin on learning ability (Woolley D.W.)

A method for studying the effects of drugs on recent memory in animals (Bradley P.B. & Roberts M.H.T.)

Electrical activity of the brain during approach learning and its variation after the administration of drugs (Buser P.)

Electrocortical correlates of avoidance conditioning in the monkey and their modifications with atropine (Ricci G.F.)

Computer analysis of hippocampal EEG activity and impedance in approach learning: manipulation with psychomimetic and hallucinogenic drugs (Adey W.R.)

Conditioned reflexes and neurotropic drug effects (Kupalov P.S.)

Bioelectrical conditioned phenomena evoked by rhytmical conditional and differential stimuli (Majkowski J.)

S 2. Symposium on biochemical and neurophysiological correlation of centrally acting drugs

Electrophysiology of extrapyramidal structures (Jung R.)

Physiology of the striopallidum in relation to extra-pyramidal function and disorders (Speigel E.A.)

Dopamine and the function of the basal ganglia (Sourkes T.L.)

Role of dopamine in the function of basal ganglia (Bertler A.)

The role of brain dopamine in parkinsonism (Hornykiewicz O.)

Pharmacology of tremorine and some other drugs affecting the extrapyramidal system (Everett G.M.)

The metabolism of tremorine (Cho A.K., Fairhurst A.S., Haslett W.L. & Jenden D.J.)

The physiology and pharmacology of temperature regulation with particular reference to the chemical mediators (von Euler C.)

The physiology of thermoregulation (Smith R.E.)

Interaction of drugs with thermoregulation mechanisms (Mantegazza P.)

Drogues hypothermisantes (Laborit H.)

Pharmakologische Untersuchungen zur Pyrogenwirkung am Kaninchen (Haan J. & Schmidt A.-W.)

Hyperthermy induced by endotoxin (Masek K. & Rasková H.)

Metabolic implications of thermoregulatory mechanisms (Maickel R.P.)

Metabolic implications of cold adaptation (Masoro E.J.)

S 3. Symposium on pharmacology of cholinergic and adrenergic transmission

The role of sodium ions in the regulation of acetylcholine synthesis, storage and release (Birks R.I.)

Distribution and release of acetylcholine in muscle (Krnjević K.)

Junctional distribution of acetylcholinesterase and its role in cholinergic transmission (Koelle G.B.)

The relative distribution of adrenergic and cholinergic neurons in the sympathetic ganglia of the cat (Hamberger B., Norberg K.-A. & Sjöqvist F.)

The action of acetylcholine and related drugs on mammalian non-myelinated nerve fibres (Ritchie J.M.)

Possible mechanisms of acetylcholine action in muscle (Shanes A.M.)

Electrophysiological analysis of cholinergic transmission in sympathetic ganglia (Gingsborg B.L.)

Interactions of cholinomimetic and cholinergic blocking drugs at sympathetic ganglia (Volle R.L.)

Acetylcholine as a secretagogue:Calicium-dependent links in "stimulus-secretion coupling" at the adrenal medulla and submaxillary gland (Douglas W.W.)

The evolution of cholinoceptive sites of locomotor muscles (Magazanik L.G. & Fruentov N.K.)

Metabolism, distribution and fixation of ^{14}C-decamethonium on cholinergic receptors of the endplate (Waser P.G.)

Cholinergic transmission in the central nervous system (Curtis D.R., Ryall R.W. & Watkins J.C.)

Cellular localization of monoaminergic transmitters (Falck B.)

Drugs interfering with the formation of adrenergic transmitters (Creveling C.R. & Udenfriend S.)

Drugs interfering with the degradation and inactivation of adrenergic transmitters (Axelrod J.)

Effect of drugs on adrenal medullary storage granules (Kirshner N.)

Effect of drugs on the storage granules of adrenergic nerves (Euler U.S. & Lishajko F.)

Effect of drugs on monoamine uptake in isolated tissues (Dengler H.J.)

Effect of drugs and sympathetic denervation on norepinephrine uptake and binding in animal tissues (Hertting G.)

Drugs interfering with the storage and relaease of adrenergic transmitters (Muscholl E.)

Adrenergic receptor mechanisms (Nickerson M.)

Short Communications

Techniques used in conditioning and behaviour studies

Utilisation d'une réaction particulière d'explaration de la souris pour l'étude des médicaments psychotropes (Simon P. & Boissier J.R.)

Locomotor exploration in rats as a measure of psychopharmacology logical effects (Bätting K. & Wanner H.U.)

Einige Probleme bei der Untersuchung zentral-wirkender Pharmaka mit der Methode der bedingten Reflexe an der Albinoratte (Hecht K.)

Untersuchungen über die Wirkung zentralangreifender Pharmaka auf das Beuteverhalten von Hauskatzen (Felis domestica L.) währent verschiedener Aktivitätsperioden (Knappe H.)

Effects of drugs on different measures of running performance in a straight alley (Wanner H.U. & Bättig K.)

Sur une nouvelle méthode d'enregistrement de la motilité chez l'animal de laboratoire maintenu dans son milieu d'élevage. Son application a l'etude de quelques agents modificateurs de comportement (Dumont C., Bessin P. & Boissier J.R.)

Cholinergic and adrenergic mechanisms involved in conditioned responses of dogs with different typologic characteristics (Corson S.A. & O'Leary Corson E.)

The effect of chlorpromazine, phenmetrazine, imipramine and physostigmine on the exporatory reaction in rats with different excitability of the central nervous system (Sousková M. & Benesová O.)

Recherches sur les réactions conditionnelles thermiques, liées à l'effet de certains médicaments neuro-végetatifs (Feszt G., Kelemen A. & Bérczi I.)

Analysis of variance and behaviour of rats (Visser P. & Hylkema H.)

The carried extinction as a tool to discriminate the effects of some psychotropic drugs on the learning processes (Beccari E. & Molinengo L.)

Effect of drugs on conditioning and behaviour

The effect of psychotropic agents on depressive conditioned reflexes (Lyubimov B.I.)

Further studies on the differential influence of meprobamate on conditioned and unconditioned renal and motor defense responses and on neurotic and agressive behavior (O'Leary-Corson E. & Corson S.A.)

The effects of LSD and other inhibitors of acetylcholinesterase and butyrylcholinesterase on conditioned reflexes (Pavlin R.)

The influence of partial and total functional decortication on conditioned time reflexes (Kunc L.)

Влияние коразола на высшую нервную деятельность. А. Ценов и Р. Харизанов. Науч.-исслед. Инст. Неврол. и Психиат., София, Болгария

Analysis of the operative response of the rat treated with psychotropic drugs in a lever pressing avoidance conditioning (Gatti G.L.)

Effect of cholinergic and anticholinergic drugs on instrumental avoidance conditioning in naïve rats (Bignami G. & Robustelli F.)

Group-patterns obtained for some CNS depressants by means of multiple concurrent avoidance and variable-ratio reinforcement schedules (Molinengo L.)

The posterior pituitary and avoidance behavior (De Wied D.)

Pharmacological treatment and experimental procedure relationship in the avoidance response learning (Montanaro N. & Babbini M.)

The influence of iproniazid on higher nervous activity of rabbits and dogs (Zobcallo G.I., Kalinina M.K., Leschinyuk I.I. & Sofronov N.S.)

The influence of aminazine(chlorpromazine) on the development of experimental neurosis in dogs (Bolondinsky W.K.)

Electrophysiological pharmacology

The use of pharmacological analysis in studying the development of the highest parts of the central nervous system (Myslivecek J., Hassmannová J., Chaloupka Z., Rokyta R., Sobotka P. & Zahlava J.)

The relation of synchronized EEG activity evoked by atropine to sleep; influence of reversible cortical and hippocampal elimination (Weiss T. & Bohdanecký Z.)

Pharmacological influence on so-called temporary acquiring rhythms of evoked potentials (Chaloupka Z. & Myslivecek J.)

The influence of $CdCl_2$ on the spontaneous and evoked electrical activity of the cerebral cortex (Myslivecek J., Chaloupka Z., Sobotka P. & Záhlava J.)

Changes of cerebral pulsations and pO_2 of the cerebral cortex in rabbits after the application of barbiturate (Reinis S.)

Inhibition de l'activité evoquée et des postdécharges epileptiques amygdalohippocamiques par administration de l'ésérine (Kreindler A. & Steriade M.)

The influence of acetylcholine on the cerebral electrical activity during development (Sobotka P., Záhlava J. & Chaloupka Z.)

Pharmacology of some agents with central activity (Nikolayeva N.O.)

Recherches de psychopharmacologie expérimentale (Floru R. & Sterescou-Volanschi M.)

Analysis of influence of different neurotropic drugs on cortical-subcortical interactions (Borodkin J.S. & Allikments L.H.)

Changes of intracellular electrical activity of spinal ganglion cells caused by mephenesin at different Ca-ion concentrations (Capek R., Levin J. & Machne X.)

Electrographical changes produced by topical application of mescaline on the neocortex. Correlations with glutamine metabolism (Mison-Crighel N., Luca N., Kreindler A. & Crighel E.)

The effect of mescaline upon conditioned responses in the rat (Smythies J.R. & Sykes E.A.)

Pharmacology of the extrapyramidal system. 5-HT.

A mechanism for experimental catatonia induced by bulbocapnine (Walaszek E.J. & Chapman J.E.)

Topographical distribution of brain glycogen in the course of experimental catatonia (Svorad D.)

Effets antagonistes comparés du chlorure d'éthybenzatropinium (UK 738) et de deux inhibiteurs de la MAO aur la symptomatologie extrapyramidale provoquée chez le rat par l'administration de neuroleptiques (Herold M., Cahn J. & Helbecque C.)

Фармакологическое исследование средств терапии гиперкинезов екстрапирамидного происхождения. П. Николов, К. Русинов и С. Атанасова. Инст. физиол. Болгар. Акад. Наук, София, Болгария

Die Beeinflussung des Harmintremors durch biogene Amine (Scharfenberg G.)

Experimental catatonia produced in dogs by intraventricular administration of adrenaline and noradrenaline (Traczyk W.)

Antagonism of tremorine by related compounds (Jenden D.J. & Cho A.K.)

The acute toxicity of 5-HT in anaesthetized rats (Tapani T.)

Metabolites of labelled 5-hydroxytryptamine in urine and bile of the rat after various routes of administration (Airaksinen M.M.)

Release of 5-hydroxytryptamine from blood platelets by chlorpromazine (Paasonen M.K.)

The distribution of 5-hydroxytryptophan decarboxylase and monoamine oxidase during foetal development of the guinea-pig (Tissari A.)

The action of chemical transmitters on the isolated internal organs of snail Helix pomatia (Gryglewski R. & Supniewski J.)

Transmitters and other active substances in CNS

Some physiological and biochemical properties of acetyl carnitine isolated from brain tissue extracts (Hosein E.A. & Orzeck A.)

Die Wirkung von Derivaten des (-)- und (+)-Carnitins und Acetylcarnitins auf die Bildung von Acetylcholin (Thomitzek W.D.)

Gangliosides and acetylcholine (Burton R.M., Baer S., Howard R.E. & Balfour Y.M.)

Cholinesterases of the cat brain-stem (Abrahams V.C.)

Effects of experimental complexity and training on brain enzymes and brain anatomy of the rat (Rosenzweig M.R., Bennett E.L. & Krech D.)

The effects of drugs on phosphorylase activity in brain of mice (Udermann H. & Kukovetz W.R.)

Specificity of the potassium-stimulated respiration to certain areas of the brain (Hertz L. & Clausen T.)

The nature of the in vitro inhibition of cerebral glutamine synthetase by DL-methionine-DL-sulfoximine (Sellinger O.Z. & Weiler P.Jr.)

Über die gegenseitige pharmakologische Beeinflussung von Serotonin und Noradrenalin (Schmidt J.)

The effect of DOPA and dopamine on the basal metabolism of rat (Šatory É., Pfeifer A.K., Vizi E.S. & Galambos E.)

Investigation of unidentified pharmacological active substances of human central nervous system (Hendrickson H. & Auditore J.)

The extraction from brain of non-cholinergic substances similar to those released on stimulation (Ramwell P.W.)

Arecoline phenomenon and its value in analysis of drug effects on the central nervous system (Kharauzov N.A.)

Pharmacological effects of mediators on CNS

Antagonism of awakening effect of DOPA in reserpinized mice (Chruściel T.L.)

Zur Frage der "Toleranz"-Entwicklung gegenüber Catecholaminen (Pohle W.)

Behavioral effects of direct chemical stimulation of central nervous system structures (Grossman S.P.)

Quantitative electroencephalographic analysis of the stimulant properties of histamine and histamine derivatives (Pfeiffer C.C., Goldstein L. & Munoz C.)

Effects of 5-hydroxytryptamine and related substances on electrical activity of hippocampal neurones (David J., Capek R. & Unna K.R.)

Effect of serotonin on CSF pressure (Kelentey B.)

Central depressant effects of some new tryptamine derivatives (Marczynski T. & Yamaguchi N.)

Effect of acetylcholine, γ-aminobutyric acid and morphine on evoked potentials recorded on cortex and deep structures of cat and human (Guerrero-Figueroa R., de Balbian Verster F. & Heath R.G.)

The significance of brain dopamine for psychomotor stimulant action (Van Rossum J.M.)

Effet émétisant d'amines biogènes (Cahen R.)

The influence of synaptically active substances on the responses of the auditory cortex during ontogenesis (Hassmannová J., Myslivecek J., Rokyta R. & Záhlava J.)

Über die myodynamische Wirkung von Psychotropica (Teuchmann J. K., Tomaszewski W.J. & Rucinska E.J.)

Investigation of blood-brain barrier permeability for certain anticholinergic drugs by the method of perfusion of brain ventricles (Petchenkin V.A.)

Adrenergic nerve transmission I

Metabolic pathways of bound and drug-released adrenergic transmitter, ^{3}H-norepinephrine (Kopin I.J.)

Differences on the release of tritiated norepinephrine from the heart by reserpine and guanethidine (Costa E., Nash C.W. & Brodie B.B.)

The effect of nerve stimulation on the release of noradrenaline from a reserpine resistant transmitter pool in skeletal muscle (Sedvall G. & Thorson J.)

Action at sympathetic nerve endings of drugs which impair cholinergic transmission (Rand M.T.)

Reserpine, dextro-norepinephrine and tyramine interactions (Luduena F.R. & Snyder A.L.)

Irreversible potentiation of catecholamines induced by guanethidine *in vitro* (Maxwell R.A.)

Selective potentiation of some catecholamines by cocaine, phenoxybenzamine or guanethidine (Stafford A.)

Functional effect of noradrenaline depletion by α-methyl-m-tyrosine, metaraminol and (+)-adrenaline (Andén N.-E. & Magnusson T.)

L'action tachyphylactique de quelques sympathomimétiques étudiée sur l'organe isolé (Valette G., Rossignol P. & Massé C.)

Tachyphylaxie des dérivés de l'acide nicotinique. Intervention possible du système sympathique et des catecholamines (Chevillard L. & Laury M.C.)

Action of guanethidine on nonvascular smooth muscle in mammals and dorsal muscle of leech (Dzolijić M.)

On the mechanism of sensitization to catecholamines by hexamethonium (Vitolina M.A. & Melzobs M.J.)

Adrenergic nerve transmission II (Metabolism of catecholamines)

Sympathetic stimulation and blockade of urinary bladder in cat (Sigg T.D. & Sigg E.B.)

Evidence for a peripheral site of action for α-methyl-dopa (Aldomet) (Day M.D.)

Comparative effects of methyldopa and reserpine on nerve- and phenethylamine-induced cardioacceleration on the dog (Stone C.A. & Stavorski J.M.)

Effect of pyrogallol on the catechol-O-methyl-transferase in rabbit's heart (Juorio A.V., Barboza H.J. & Izquierdo J.A.)

α-Methyl-DOPA does not prevent synthesis and storage of catecholamines in rat adrenal medulla (Clementi F., Fresia P., Mortari A. & Sioli G.)

Researches on the role of ACTH in the mechanism of the secretion of catecholamines (Simionescu-Carapances S. & Trinh Binh Dy)

Changes in the sensitivity of the cat's nictitating membrane to norepinephrine, acetylcholine and potassium (Fleming W.W.)

Transformation of phenylalanine to tyrosine in rat liver slices (Necina J. & Hâva M.)

Metabolism of ^{14}C-noradrenaline and its transmission across the human placenta (Sandler M., Ruthven C.R.J. & Contractor S.F.)

The effect of chlorpromazine on yeast hexokinase (Durrell J.)

Actions de la decentralisation et de la β-phenylisopropylhydrazine sur la noradrenaline splenique chez le rat (Felix M.C., Pecot-Decot-Dechavassine M. & Jacob J.)

Interactions of iproniazid, INHA-17 and SAH with reserpine on the serotonin content in the duodenal enterochromaffin cells (Antonov L.R.)

Action of catecholamines on receptors

New sympathominetic drugs

The contractile receptors for catecholamines in isolated cat spleen strips (Bickerton R.K. & Rockhold W.T.)

The pressor response in the cat to isoprenaline following β-adrenergic blockade (Butterworth K.R.)

The action of α and β sympathomimetic drugs on the cardiac sphincter region (Brücke F. & Spring G.)

The dual action of adrenaline on denervated skeletal muscle (Paterson G.)

Summation effects in bioamine combinations (Veninga T.S.)

Structure-activity relationships of some β-adrenergic blocking agents (Howe R.)

Influence of some new β-sympathotropic agents on lipid mobilization in vitro (Krcíková D., Hynie S., Schusterová D. & Mühlbachová E.)

Influence of some β-sympathotropic agents on muscle glycogenolysis in vitro (Hynie S., Mühlbachová E., Elisová K. & Wenke M.)

Some pharmacological properties of the tropolones (Murnaghan M.F.)

Some new tertiary aminoalkylguanidines and their adrenergic neurone blocking effect (Hjelte N.S. & Hermansen K.)

Effect of some guanidine derivatives on the sympathetic nervous system (Kärki N.T., Lahovaara S. & Krieger H.)

Cholinergic nerve transmission

Cholinesterase inhibitors and reactivators

Anionic centers of butyrylcholin esterases as possible receptors for the muscarinic actions of acetylcholine (Zupancic A.O.)

Determination of the anionic centers concentration of a butyrylcholinesterase and of the equilibrium constant for the binding of acetylcholine to these centers (Pavlic R.M. & Zupancic O.A.)

Histochemical localisation of cholinesterases in some tonic muscle fibres by means of Holt's method made selective for different types of esterases (Klinar B.)

Die Brauchbarkeit der histochemischen Thiolessigsäuremethode zur Darstellung der Endplattenesterase-Hemmung durch Injektionen von Anticholinesterasen (Jonecko A.)

Relation between the activity of cholinesterase and acetylcholinesterase and the parathion dose (Fiserová-Bergerová V.)

Cholinesterase activity and some pharmacological functions Jensen-Holm J.)

Enhancement of oxime activity by diethylaminoethyl phenyldiallyl acetate (CFT 1201) (Milosević M.M. & Terzić M.)

Studies on the distribution and excretion of tertiary and quaternary organophosphorus cholinesterase inhibitors (Lundin J. & Sundwall A.)

Intoxication by cholinesterase inhibitors, comparison of modifications in vivo and in vitro (Huković S. & Boković B.)

Reactivation and ageing of inhibited cholinesterases in tabun poisoned dogs (Heilbronn E. & Sundwall A.)

On the toxicity of TMB-4, a reactivator of inhibited cholinesterase (Albanus L., Järplid B. & Sundwall A.)

De nouveaux antidotes dans les intoxications avec des composés anticholinestérasiques (organo-phosphorés) (Popa I.)

Effects of drugs on biogenic amines in brain

Brain monoamine levels and behaviour during long-term administration of reserpine (Häggendal J. & Lindqvist M.)

Fate of brain serotonin after administration of reserpine (Bando T.)

On the presence of 5-hydroxytryptamine in pineal nerves (Owman C.)

A new inhibitor of decarboxylase of aromatic L-amino acids (Burkard W.P. & Gey K.F.)

Some new pharmacological properties of L-DOPA/5-HTP decarboxylase inhibitors (Cahn J., Herold M., Helbecque C. & Barre N.)

Effect of drugs on the levels of indole and phenolic acids in central nervous system (Andén N.-E., Roos B.-E. & Werdinius B.)

Effect of drugs on the stress-induced release of brain norepinephrine (Maynert E.W. & Levi R.)

The effect of phenobarbital on insulin and reserpine induced NE depletion of rat brain (Vizi E.S., Pfeifer A.K., Galambos E. & Sátory É.)

Action of reserpine and iproniazid on the glucose metabolism of rat brain (Pfeifer A.K., Sátory É., Galambos E. & Vizi E.S.)

The in vivo metabolism of catecholamines in the central nervous system (Goldstein M.)

Investigation into the subcellular localization of brain amines (Michaelson I.A. & Whittaker V.P.)

Effect of drugs on the distribution of histamine in the brain and hypophysis of the cat (Adam H.M., Hye A. & Stephen W.R.G.)

(continued from p.203)

Pharmacological studies on presynaptic inhibition (Eccles J.C., Schmidt R. & Willis W.D.) 168(3) 500-530, 1963

The effect of thyroid deficiency on the growth of the brain and on the deposition of brain phospholipids in foetal and newborn rabbits (Cuaron A., Gamble J., Myant N.B. & Osorio C.) 168(3) 613-630, 1963

Acethylcholine in non-nervous tissues of some lepidoptera (Morley J. & Schachter M.) 168(3) 706-715, 1963

Effect of catecholamines on the responses of the nictitating membrane to nervous stimulation in cats treated with reserpine (Mirkin B.L. & von Euler U.S.) 168(4) 804-819, 1963

Catecholamine-containing structures in the hypogastric nerves of the dog (Vanov S. & Vogt M.) 168(4) 939-944, 1963

Dependence of resting and action potentials on internal potassium in perfused squid giant axons (Narahashi T.) 169(1) 91-115, 1963

The hormone-binding protein of the neurohypophysis (Ginsburg M. & Ireland M.) 169(1) 15P-16P, 1963

Phosphagen break-down and lactic acid formation on stimulation of the electric organ of Electrophorus (Caldwell P.C. & Keynes R.D.) 169(1) 37P-38P, 1963

Fluorescence changes in the electric organ of Electrophorus (Chance B. & Keynes R.D.) 169(1) 38P-39P, 1963

The effect of transection on the level of choline acetylase in the goat's sciatic nerve (Hebb C.O. & Silver A.) 169(1) 41P-41P, 1963

Regional variation of GABA sensitivity on the Mauthner neurone (Diamond J.) 169(1) 48P only, 1963. -title only-

The nature of non-cholinergic substances released from the cerebral cortex of cats on direct and indirect stimulation (Ramwell P.W. & Shaw J.E.) 169(1) 51P-52P, 1963

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第6回神経化学懇話会——東　京——

昭和38年10月4日(金)～5日(土)
日本都市センター

第1日

一般演題

1．(15分)　神経生長促進因子 nerve growth-promoting factor (NGF) の研究（その1）
……中沢恒幸・鈴木恵晴・壁島彬郎(慶大・神経)

2．(15分)　脳アミン酸化酵素に関する二，三の生化学的知見
……井上　章・片岡喜由・品川純子・桝村純生・今泉正臣・光村民子・矢原庄二(京大・生理)

3．(15分)　神経組織内のポリアミンの分布……清水宏俊・柿本泰男・佐野　勇(阪大・精神神経)

4．(15分)　カテコールアミンと脳の糖質代謝……柿本泰男・中嶋照夫・武貞昌志・佐野　勇(阪大・精神神経)

5．(15分)　脳組織におけるアセチルコリンの遊出と結合
……黒川正則(東大・脳研)，加藤　誠・町山幸輝・坂本哲彦・池田周弘・秋元波留夫(東大・神経)

6．(15分)　肝臓酵素の活性調節と視床下部……嶋津　孝(阪大・第三解剖)

7．(15分)　脳肝機能連関に関する実験的研究——諸種条件下に於ける肝臓及び脳の酵素活性の変動について——
……野村純一・中沢欽哉・鳩谷　龍(京大・精神)

シンポジウム　神経組織化学の新分野　(**司会**　東大・内科　宇尾野　公義)

S 1．(30分)　神経組織の組織化学的研究における2，3の問題……藤田尚男・越智淳三(京都府立医大・解剖)

S 2．(30分)　神経伝達物質の代謝に関する組織化学的研究……清水信夫(阪大・解剖)

シンポジウム　神経化学と行動薬理　(**司会**　群大・神経　台　弘)

S 3．(20分)　慢性覚醒剤中毒における神経化学的研究……台　弘(群大・神経)

S 4．(10分)　長期アルコール飲用ラットの脳皮質呼吸に及ぼすエタノール，アセトアルデヒドの影響
……相沢宏邦・石井　厚・赤坂　正・三塚浩三・柏倉浩洋(東北大・精神医学)

S 5．(10分)　Hydrazine-2HClにより出現する痙攣と脳GABA増加作用
……斎藤章二・徳永友喜子・望月安雄・加倉井祥子・西田　敬(慶大・薬理)

S 6．(10分)　脳内カテコールアミン代謝と行動変化……今泉礼治・松岡正己(阪大・薬理)

S 7．(30分)　行動薬理——とくに方法論的立場から——
……小林龍男・露崎輝夫・東　紀男・石川稔生(千葉大・薬理)

招待講演Ⅰ (30)) Biochemical Aspects of Schizophrenia
H. Hoagland (Worcester Foundation for Experimental Biology)

第2日

一般演題

8．(15分)　白鼠脳の蛋白並に脂質代謝に及ぼす同化ステロイドの影響
……清水茂松・有滝世界爺(東京医大・小児科)，芝本源治(東京医大・生化学)

9．(15分)　アスパラギン酸と脳組織へのカリウムのとり込み……高垣玄吉郎(慶大・生理)

10．(15分)　脳の核酸の細胞内分布とその代謝について……山上　栄(大阪市大・精神)

11．(15分)　大脳皮質の核酸の研究——フェノール抽出法の検討——
……植村慶一・塚田裕三(東邦大・第2生理)，飯田慈子(東大・理・生物化学)

12. (15分) 脳リボソームの精製について
……品川嘉也・堀　清記・入交昭彦・桝村純生・伊達慶宗・井上　章(京大・第2生理)
13. (15分) 脳ミクロソーム，リボソームによる蛋白合成系
……間瀬桂吉・阿部幸子・高橋康夫・佐武　明・緒方規矩雄(新潟大・脳研)
14. (15分) 脳リンタン白の研究　II，particle bound の phosphoproteinkinase と phosphoprotein の反応について
……松井英男・繍壁永次・島薗順雄(東大・生化)，石川晋次(東大・脳研)
115. (15分) 脳の酸性エタノール可溶性蛋白質
……大月三郎・大森文太郎(岡山大・神経精神)故A. Geiger (Univ of Illinois)
16. (15分) ポリアクリルアミド・ゲルを支持体とする　DISC-泳動法による髄液蛋白の分画……麻上義文・中村敬三(山口県立医大・精神神経)，茂木五郎(山口県立医大・耳鼻)，中村正二郎(山口県立医大・医化)

シンポジウム　脳の脂質　　**(司会**　伝研・細胞化学　木村雄吉)

S 8. (20分) 脳の脂質の研究……安田守雄(北大・生化)
S 9. (15分) 脳イノシトールリン脂質代謝とイオン輸送の関係
……林　浩平・甲斐睦興・中村　勇・山添三郎(群大・生化)
S 10. (15分) 脳細胞顆粒の燐脂質の研究……松谷天星丸・塚田裕三(東邦大・第2生理)
S 11. (10分) 外傷脳及び梗塞脳における脂質代謝及び核酸誘導物質の治療面への応用
…荒木千里・石井昌三・近藤裕之(京大・第1外科)，沼　正作・小沢和恵・辻　宏(京大・医化学)
S 12. (10分) 老人脳における Hexosamine および Sialic acid の定量(中止)
……横井　晋・酒井正雄・田野稔郎(横浜市大・神経)
S 13. (30分) 糖脂質研究の進歩……山川民夫(東大・伝研)

招待講演　II (40分) The Metabolism of Lipids and Lipoproteins in the Central Nervous System　　J. Folch-Pi (McLean Hospital)

—神経化学文献—

凡例

1）＊印はこの号に，その雑誌から拾い出した神経化学文献表題がのっていることを示します。

2）右側の巻(号)は，その雑誌のその巻(号)について目を通してしらべたことを示します。従って右側に巻(号)が記載されていながら＊印のないものは，神経化学文献が見当らなかったことを示すわけです。

page

1. REVIEWS

Ergebn. Physiol.
Pharmacol. Rev. 15(3-4)
Physiol. Rev. 43(3-4)

2. FUNDAMENTALS

General:

Analyst
Analyt. Chem.
*Exp. Cell Res. 31(1-3);Suppl.9;32(1-2)‥ 186
*Fed. Proc. 22(3-6)‥‥‥‥‥‥‥‥‥ 187
*J. exp. Med. 117(5-6);118(1-6);119(1) 187
*Life Sciences 6-12‥‥‥‥‥‥‥‥‥‥ 188
*Nature 198(4877-4887);199(4888-4891)
*Naturwissenschaften 50(8-11)‥‥‥‥‥‥‥ 191
*Proc. nat. Acad. Sci.(Wash.) 50(1-5)‥‥‥‥‥‥‥ 191
*Proc. roy. Soc. B. 157(969);159(974)‥‥‥‥ 192
*Proc. Soc. exp. Biol.(N.Y.) 113(2-3);114(2-3)‥‥‥‥ 192
Science

Biochemical:

*Arch. Biochem. Biophys. 101(2-3);102(1-3);103(1-3)193
Biochem. biophys. Res. Comm. 13(1)
*Biochem. J. 88(1-2);89(1-3)‥‥‥‥‥‥ 193
Biochim. biophys. Acta
Biochemistry(USSR)
Canad. J. Biochem. Physiol.
*Hoppe-Seylers Z. physiol. Chem. 331(1/6)‥‥‥‥‥‥‥‥‥ 194
J. Amer. chem. Soc.
*J. biol. Chem. 238(5-9)‥‥‥‥‥‥‥‥‥ 194
*J. Cell Biol. 17(2-3);18(1-3);19(1-3)‥ 195
*J. Histochem. Cytochem. 11(3-5)‥‥‥‥‥‥‥‥‥ 195
*J. Neurochem. 10(6-10)‥‥‥‥‥‥‥‥‥ 195

Pharmacological:

*Biochem. Pharmacol. 12(6-9)‥‥‥‥‥‥‥‥‥ 198
*Brit. J. Pharmacol. 21(1)‥‥‥‥‥‥‥‥‥‥ 199
*J. Pharmacol. exp. Ther. 140(2-3);141(1)‥‥‥‥‥ 199
*Psychopharmacol. 4(3-5)‥‥‥‥‥‥‥‥‥ 200

Physiological:

*Acta physiol. scand. 58(1-4);59(1-3)·····200
*Amer. J. Physiol. 205(1-6)·····201
*J. cell. comp. Physiol. 62(1-3)·····202
*J. gen. Physiol. 46(5-6);47(1-3)·····202
*J. Neurophysiol. 26(5-6)·····202
*J. Physiol. 166(1-2);168(1-4);169(1) 203
*Pflüg. Arch. ges. Physiol. 278(1-4)·····182

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Acta psychiat. scand.
Amer. J. Psychiat.
Ann. med.-psychol.
Arch. gen. Psychiat.
Arch. Neurol.
Arch. Psychiat. Nervenkr.
Brain
Brit. J. Psychiat.
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(continued on p.182)

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Part I. The nature and substratum of specialization
Part II. The development of specialization
Part III. Properties of specialized cell types
Part IV. Specialized systems
Impulse-conducting properties of cells (Grundfest H.)
The specific occurrence of the γ-aminobutyric acid system in nervous tissue of animals (Roberts E. & Sano K.)

—ニュース—

第2回行動の神経機構に関するシンポジウム—臨床医学的側面から—

主　催　日本学術会議・脳研究連絡委員会
と　き　昭和39年2月29日(土)
ところ　東大医学部中央館三階

§1：知能とその障害(司会：井上英二)
総論(井上，東大)；精神医学の立場から(満田，大阪医大)；心理学の立場から(詫摩，学習院大)；小児科学の立場から(中込，東大)；児童精神医学の立場から(上出，東大)；神経病理学の立場から(室伏，順天大)；生化学の立場から(塚田，東邦大)；脳外科の立場から(植木，新大)

§2：情動とその障害(司会：時実利彦)
1）定位扁桃核手術による行動異常の治療(楢林，順天大)；2）祖床下部情動機構の脳外科的考察(佐野，東大)；3）精神疾患の内分泌学的研究—周期性精神病を中心として—(鳩谷，京大)

Collegium Internationale Neuro-Psychopharmacologicum(C.I.N.P.)の1964年の学会

C.I.N.P.の次の国際学会は8月31日—9月3日，Birmingham, England で P.B.Bradley のもとで開催される。主題はThe mode of action of psychotropic drugs and its implication for the pathophysiology of psychotic disturbancesである。
この学会はclosed で member かまたは招待されたものでないと出席できない。わが国よりのmemberは熊谷(東大・薬理)，秋元(東大・精神)，小林(千葉大・薬理)の3氏である。

昭和39年度第1回常任委員会議事録

昭和39年度第1回常任委員会は2月1日，大阪薬業クラブにおいて，本年度懇話会会長中脩三教授を交え，塚田，高坂、宇尾野，鳩谷，佐野，黒川，高垣，川北各常任委員出席のもとに開かれた。昭和38年度会計報告が承認され，本年度懇話会の運営方針を決定した。

§1：昭和38年度会計報告

昭和38年度神経化学懇話会会計報告
(昭和38年1月1日～昭和38年12月31日)

収　入		支　出	
一般会費	381,500	人件費	135,000
賛助会費	1,040,000	会議費	100,896
神経化学費		交通連絡費	76,376
原稿料(神経研究の進歩7巻4号)	81,000	通信費	184,437
抄録集(増刊)	119,850	神経化学編集費	86,670
第六回懇話会指定寄附	247,740	抄録集(増刊)	163,750
会場運営費(入場料展示料等)	50,650	備品費	
雑収入	25,757	リコピー	90,202
	¥ 1,946,497	その他	14,643
前年度繰越金	567,166	第6回懇話会運営費	337,517
		雑費	92,090
計	¥ 2,513,663	計	¥ 1,281,581
		次年度繰越金	¥ 1,232,082

上記の通り報告され，承認された。なお，現在会員数 504名中，97名が38年度会費未納である。近く39年度会費を払込むよう通知する際，特に注意をうながすこととした。

§ 2：第7回神経化学懇話会

と　き　10月9日(金)・10日(土)

ところ　朝日生命ホール8階講堂(大阪市東区高麗橋筋5丁目)

シンポジウムとして

(1)　脳の構成物質—脳組織の構成々分としての物質とその同定の問題—

(2)　神経系病態の生化学—神経疾患の本態を生化学方法により解明しようとするもの—

の2題を，それぞれ註記したような意味でとりあげることとし，(1)の世話人は佐野氏，(2)の世話人は高坂氏が当ることとした。

招待外人学者の候補として次の3氏があげられ，カッコ内の各氏が交渉係となることとした。

H. McIlwain　(黒川)

H. E. Himwich　(川北)

P. Mandel　(中)

懇話会への**演題申込〆切は7月31日**とし，8月10日に第2回常任委員会(東京)を開いてプログラムを編成する。

以上

編集委員（ＡＢＣ順）

鳩谷　竜	川北　幸男	高坂　睦年	黒川　正則
成瀬　浩	佐野　勇	佐藤　倚男	高垣玄吉郎
高橋　良	高橋　康夫	塚田　裕三	宇尾野公義

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会員外の方で本誌の希望者は，実費でお頒けしますから上記の編集所宛にお申出下さい

神 経 化 学　　VOL. 2　NO. 6

目　次

〔学　会〕

II International Pharmacological Meeting, Prague, 1963年8月…… 171

第6回　神経化学懇話会, 東京, 1963年10月… 183

〔神経化学文献〕…… 185

〔書　架〕…… 204

〔ニュース〕

第2回「行動の神経機構」シンポジウム…… 205

Collegium Internationale Neuro-Psycho-pharmacologicum, 1964…… 205

昭和39年度第1回常任委員会議事録…… 205

緒 方 書 店 刊