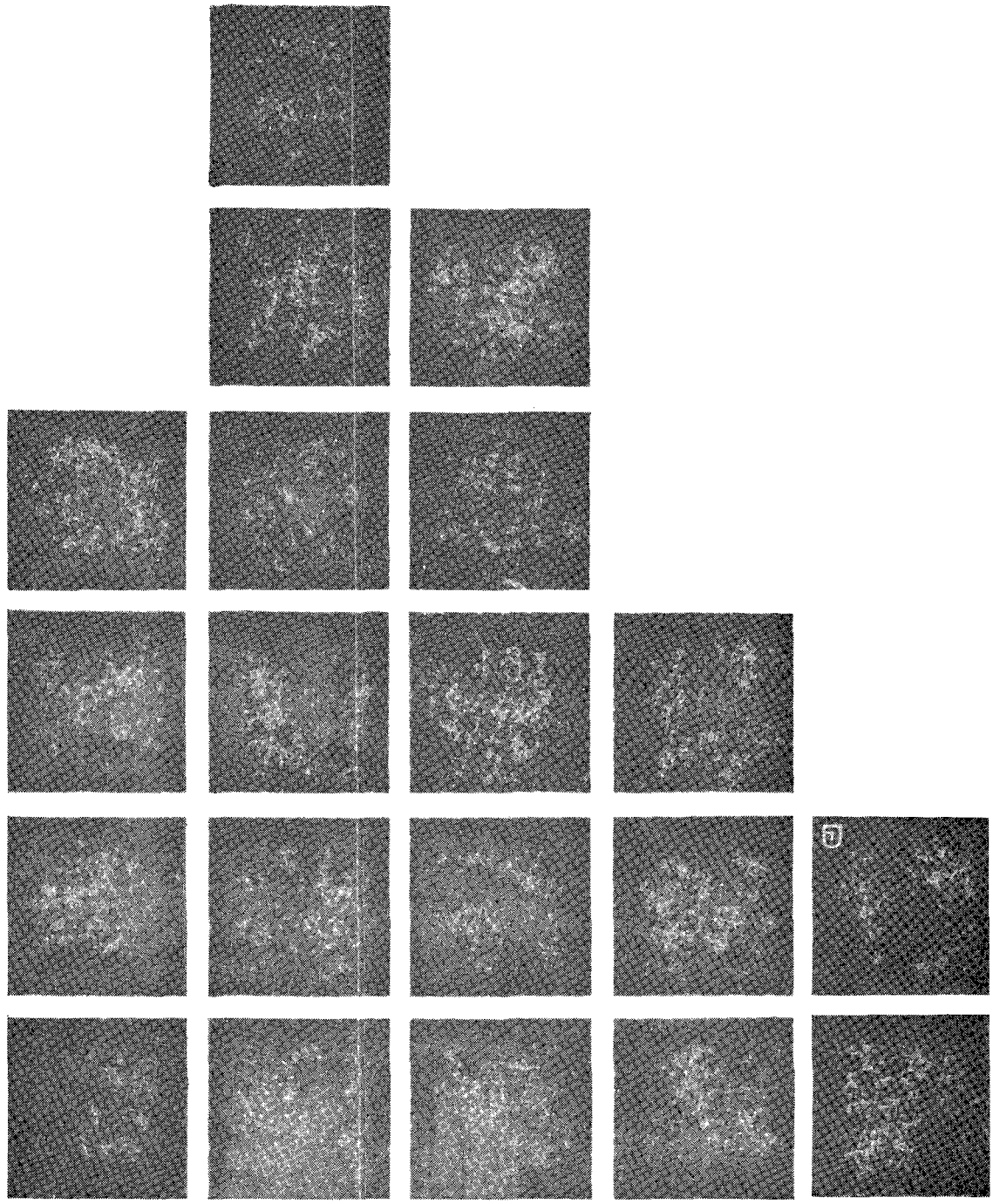
神経化学

VOL. 1 NO. 1 FEBRUARY 1962



神 経 化 学 懇 話 会

創刊の辞

創刊によせて

神経化学の研究は今日急速な進歩をとげ，国際的にも脚光をあび International Journal が月刊で発行されている現状である．

吾が国に於いても古くから精神神経医学領域でこの方面の研究が地道に取り上げられてきたのであって，昭和33年には神経化学懇話会として第１回の専門集会が開催され，次後毎年１回この集りが続けられて今日に至っている．この様に臨床医学からの切実な要求として生まれた神経化学研究への関心は臨床医家の熱心な努力によって今日多くの基礎科学者をひきつけ，世界にさきがけて神経化学研究の為の専門学会が誕生することになったわけである．この事は日本におけるこの方面への関心が非常に深く，かつまた独創的な研究成果をもっていることに根ざしている．

神経化学の研究には西欧的な脳を材料とした精細な生化学的研究と，パヴロフ以来の伝統を継承し，生理機能との関連に於いて神経化学を追求しようとするソビェト学派の研究とがある．この間にあって日本に於いては，また独自の研究が展開されて居り，日本の研究態勢に応じた研究テーマで地道に続けられようとして居ることも大いに評価されてよいであろう．

この様な条件の下で日本の神経化学研究が将来一つの学派として指導的な役割をはたすことが期待されるのである．この為には今後基礎科学者の協力が是非とも強化されねばならず，質的水準の昂上が大いにはからるべきである．そして，本会の運営も従来の学会の陋習をふり切って，実質的に内容を高め，明日への研究の糧となるべく合理的に行われることが必要である．研究発表会の形式なども外国で見られる様な closed で少人数で充分に専門的な討論を深める方法も一つの方法であろうが日本の現状ではなお困難な点が多いので，open であっても充分討論の成果が実る様な形を考慮して行きたいものである．この為にも本会の会誌として今後定期的に発行される「神経化学」が充分に活用され，これらの点をおぎなう様，皆様の御協力をお願いする次第である．取りあえず文献紹介とニュースに主力をおき，国内外の情勢を把握出来る様につとめたいというのが編集委員一同のねがいである．幸い本会の推進力が若手中堅層であることは大きな力であり，将来への限

りない希望をいだかせる.

神経化学の研究が好むと好まざるとにかかわらず高度に分化した機能を意識しなければならないものであるかぎり，あらゆる分野からの研究協力態勢が必然的に要求される．例えば，比較神経化学，神経系の代謝的特質の解明，神経細胞での代謝的局在の問題，ひいては精神神経疾患に伴う代謝異常，精神神経薬理学，はたまた情報理論の物質的裏づけ等，生化学の新しい分野として無盡蔵の宝庫であろう．然し，これらの問題点からその化学過程を吾々の手中におさめる為には，なお多くの努力と日時を要するであろうことは筋収縮機構研究の歴史からも容易にうなづける処である．現下の吾々の神経化学の知識が如何に幼稚なものであっても，吾々の日々の努力が，一歩一歩神秘のベールをはぎ取り，魂の謎を解く礎となることを確信したい.

塚　田　裕　三
(1962, 1, 28)

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—— 学会の記録 ——

第1回 国際薬理学会： 1961 年8月, Stockholm

第1回国際薬理学会 (First Internatioal Pharmacological Meeting, Stockholm) は 1961年8月22—25日に, 国際生理科学連合 (International Union of Physiological Sciences) の薬理学部門の学会として開かれた.

例によって, プログラムの大要と神経化学関係の演題を上げておく. なお, この学会の Abstracts は "Biochemical Pharmacology" の Vol. 8, No. 1 (Aug. 1961) として出ているので, 文献の欄の方ではこの Vol. 8 (1) は上げないことになる.

FIRST INTERNATIONAL PHARMACOLOGICAL MEETING

TITLES OF SUBJECTS

* Symposium on Drugs and Membranes

Symposium on Pharmacological Control of Release of Hormones including Antidiabetic Drugs

* Symposium on Modern Concepts in Relationship between Structure and Biological Activity

* Symposium on Methods for the Study of Pharmacological Effects at Cellular and Subcellular Levels

Symposium on New Aspects of Cardiac Glycosides

* Symposium on Pharmacological Analysis of Central Nervous Action

Symposium on Metabolic Factors controlling Duration of Drug Action

Symposium on Effects of Drugs on Synthesis and Mobilization of Lipids

* Special Sessions on Various Topics, including Papers with some Relation to the Symposia

Special Symposium on Bradykinin and Vasodilating Polypeptides

Special Symposium on Pharmacology of the Lung

Symposium on Drugs and Membranes

Drugs and Membranes Introductory Remarks *C.A.M. Hogben* (U.S.A.)

The Molecular Architecture of Cell Membrane and Cytoplasmic Membranes *F.S. Sjöstrand* (U.S.A.)

Passage of Materials across Biological Membranes *H.H. Ussing* (Denmark)

Biochemical Aspects of Transport *L.E. Hokin & M.R. Hokin* (U.S.A.)

Enzymatic Aspect of Active Transport of Na and K across the Cell Membrane *J. Skou* (Denmark)

The Blood-Brain Barrier *H. Davson* (United Kingdom)

Exchange between Cerebrospinal Fluid and Blood *J.R. Pappenheimer & S.R. Heisey* (U.S.A.)

Pharmacology of Aqueous Humour Formation and Outflow *E. Bárány* (Sweden)

Effects of Sodium Diatrizoate and Sodium Acetrizoate on the Blood-Brain Barrier *J.O. Hoppe, A. Brousseau & E.W. McChesney* (U.S.A.)

The Effect of Orphenadrine (Disipal) on Cell Membrane Permeability *M.J.E. Ernsting, W.F. Kafoe, W.T. Nauta, H.K. Oosterhuis, P.A. Poukema & C. de Waart* (Holland)

Symposium on Modern Concepts in Relationship between Structure and Biological Activity

Nature of the Cholinergic Receptor *P.G. Waser* (Switzerland)

Protein Nature of the Acetylcholine Receptor and the Role of Macroergs in the Realization of Acetylcholine Action *T.M. Turpajev, T.G. Putintseva & S.N. Nistratova* (U.S.S.R.)

Structure Activity Relationships among Physiologically Active Peptides *R. Schwyzer* (Switzerland)

Chemical Structure as a Basis for Competitive Inhibition between Convulsants and Anti-convulsants *R.K. Richards* (U.S.A.)

The Relationship between Chemical Structure and CNS-Depressant Activity of Basic Ketones Related to Haloperidol *P. Janssen* (Belgium)

Symposium on Methods for the Study of Pharmacological Effects at Cellular and Subcellular Levels

Methods for the Study of Pharmacological Effects at Cellular and Subcelluar Levels. Introductory Remarks *O.H. Lowry* (U.S.A)

Use of Histochemistry in Pharmacological Studies *G.B. Koelle* (U.S.A.)

Contribution of Electronmicroscopy to Neuropharmacological Problems *E. de Robertis* (Argentina)

Pharmacological Studies with Isolated Cell Components *V.P. Whittaker* (United Kingdom)

Autoradiographic Localization in the Tissues of Drugs and Metabolites *S. Ullberg* (Sweden)

On the Action of Some Pharmacological Factors upon Nerve-free Cells (Infusoria) and upon the Cells of Stretch Receptors in Arthropods *C.S. Koshtoyants, N.N. Kokina & B. Tashmukhamedov* (U.S.S.R.)

Use of Microgasometric Techniques in Pharmacological Studies *E. Giacobini* (Sweden)

Potentialities of Quantitative Histochemistry for the Study of Nervous System Pharmacology *O.H. Lowry* (U.S.A.)

Direct Extracellular Application of Drugs *D.R. Curtis* (Australia)

Biochemical and Pharmacological Heterogeneity of Mitochondria isolated from Rat Brain *A.S. Moraczewski* (U.S.A.)

Action of Chlorethoxybutamoxane on Resepiratory Enzymes of Rat's Brain in Traumatic Shock *H. Ninomiya, R.W. Buxton & M. Michaelis* (U.S.A.)

Drug-induced Alterations in the Intra-cellular Distribution of 5-Hydroxytryptamine in Rat's Brain *N.J. Giarman & S.M. Schanberg* (U.S.A.)

Symposium on Pharmacological Analysis of Central Nervous Action

Pharmacological Analysis of Central Nervous Action Introductory Remarks *W.D.M. Paton* (United Kingdom)

The Distribution of Possible Transmitter Substances *M. Vogt* (United Kingdom)

Substances Released in Nervous Activity *J.H. Gaddum* (United Kingdom)

Inhibitory Factors in the Brain *H. McLennan* (Canada)

Discussion of the Previous Paper Gamma-Aminobutyrylcholine in the Central Nervous System *H. Kewitz* (Germany)

The Effect of Drugs on Storage and Release of Serotonin and Catecholamines in Brain *E. Costa* & *B.B. Brodie* (U.S.A.)

Interference with the Permeation of Aromatic Monoamines and Amino-Acids in Brain, a Possible New Type of Drug Action *A. Pletscher* & *K.F. Gey* (Switzerland)

Discussion of the Previous Paper The Role of Dopamine in the Central Nervous System *A. Carlsson* (Sweden) & *G.M. Everett* (U.S.A.)

Spinal Neurones: Synaptic Connexions in Relation to Chemical Transmitters and Pharmacological Responses *J.C. Eccles* (Australia)

Discussion of the Previous Paper The Pharmacology of the Centrifugal Acoustic System in the Cat's Brain Stem *J.P. Desmedt* (Belgium)

Neuropharmacological Analysis of Strychnine-like Drugs *V.G. Longo* (Italy)

The Influence of Some Pharmacological Agents on the Cholinoreactive and Adrenoreactive System of the Reticular Formation and Some Other Parts of the Brain *P.P. Denisenko* (U.S.S.R.)

Pharmacology of Respiratory Neruones *G.C. Salmoiraghi* (U.S.A.)

Drug Induced Patterns of Motor Activity *W. Feldberg* (United Kingdom)

Drug-Induced Changes in Behaviour *E. Jacobsen* (Denmark)

Pharmacological Modifications of Social Behaviour *J.M.R. Delgado* (U.S.A.)

Drug Induced Changes in Conditioned Reflexes *J. Malmejac* (Algeria)

MAO, Catecholamines

Monoaminoxidase Inhibitors and the Potentiation of Experimental Sleep *P. Lechat* & *M. Lemeignan* (France)

Further Studies on Monoamine Oxidase Inhibitors *S.S. Parmar* & *M. Nickerson* (Canada)

A New Test for MAOI Detecting Effects *A. Lehmann* & *R.G. Busnel* (France)

Depletion of Catecholamines by *Shigella shigae* Toxin in the Mouse Brain *K. Mašek, R. Smetana & H. Rašková* (Czechoslovakia)

Excretion of Vanilmandelic Acid by Psychiatric Patients as Related to Drug Therapy *I. Munkvad & A. Randrup* (Denmark)

Suppression by Iproniazide of the Antagonistic Action of Reserpine on Amphetamine "Group Toxicity" *B.N. Halpern & C. Baracco-Drudi* (France)

Studies on the Mechanism of Uptake of Catecholamines by Isolated Brain Tissues *E.O. Titus & H.J. Dengler* (U.S.A.)

Nor-Adrenalin Content of the Cerebral Tissue of Animals under the Influence of Aminodipropionitril *M. Beauvallet & J. Fugazza*

The Effect of Eserine on the Activity of Adrenergic Nerves in the Rat *V. Varagić, R. Lešić, J. Vuco & B. Stamenović* (Yugoslavia)

The Relation between Structure & Central Nervous Action of some Hydrazine Derivatives *A. Spinks & E.H.P. Young* (United Kingdom)

Tryptamine Derivatives, Reserpine

Correlation between Metabolism and Behavioural Action of Psychotropic Tryptamine Derivatives *S. Szára* (U.S.A.)

5-Hydroxytryptamine and 5-Hydroxytryptophan Decarboxylase Activity in the Developing Nervous System of Rats and Guinea-Pigs *S.E. Smith, R.S. Stacey & I.M. Young* (United Kingdom)

Effect of Reserpine and the Metabolism of Serotonin in Tryptophan Deficient Rats *E.M. Gal, P.A. Drewes & C.A. Barraclough* (U.S.A.)

Comparative Effects of α-Ethyltryptamine Isomers on Certain Systems *in vitro* and *in vivo* *M.E. Greig, A.J. Gibbons, J.P. DaVanzo & O.K. Sebek* (U.S.A.)

Interactions of Serotonin and Other Indoles with Pyridine Coenzymes and Related Structures *S.G.A. Alivisatos* (U.S.A.)

The Influence of Some Indole Derivatives on the Activity of Choline Acetylase and CoA *B. Bošković & R. Pržić* (Yugoslavia)

Reserpine and Cardio-Vascular Centres *C. Heymans, A.F. de Schaepdryver, G.R. de Vleeschhouwer, A.C. Taquini, Jr. & J.B. van der Schoot* (Belgium)

Amino-Acid and Carbohydrate Metabolism of Brain after Reserpine *D. Palm, H. Balzer* & *P. Holtz* (Germany)

A New Antagonist of 5-Hydroxytryptamine (HT) *R. Cahen, J. Nadaud* & *S. Aubron* (France)

Reserpine: Modification of its Tranquilizer Effect and Analysis of its Central Mode of Action *J. Knoll* & *B. Knoll* (Hungary)

On the Role of Serotonin and Catecholamines in Relation to Some Effects of Reserpine *J. Nečina* & *I. Krejčí* (Czechoslovakia)

DOPA, Dopamine

Non-Hydrazide Monoamine Oxidase Inhibitors and Their Effects on Central Amines and Motor Behaviour *G.M. Everett* & *R.G. Wiegand* (U.S.A.)

Inhibition of Dopamine β-Oxidase by Amphetamine and p-Hydroxyamphetamine *M. Goldstein* (U.S.A.)

Pharmacology and Biochemistry of α-Methyl-Dopa in Man and Experimental Animals *A. Sjoerdsma* & *S. Udenfriend* (*U.S.A.*)

Further Studies on the Possible Rapid Synthesis of Norepinephrine from Administered 3:4: Hydroxyphenylethylamine *W.M. Booker* & *W.L. West* (U.S.A.)

Sympatholytic Drugs, DOPA Awakening Effect and Enzymes *T.L. Chruściel* (Poland)

Chlordiazapoxide, Imipramin, New Drugs

Pharmacology of Chlordiazepoxide (Librium) and Analogues *L.O. Randall* & *B. Kappell* (U.S.A.)

The Effects of Ethanol and Chlordiazepoxide in Altering Autonomic Responses Evoked by Isocortical and Paleocortical Stimulation *M.N. Carroll, Jr., E.C. Hoff, J.F. Kell, Jr.* & *C.G. Suter* (U.S.A.)

Effects of Chlordiazapoxide (Librium) and Other Psychopharmacological Agents on "Fixated" Behaviour in Rats *W.T. Liberson, A. Kafka* & *E. Schwartz* (U.S.A.)

On Mechanism of the Antidepressant Action of Imipramine *F. Sulser* & *B.B. Brodie* (U.S.A.)

Unusual Central Depressant Properties of a New Piperidine Compound *T.B. O'Dell, M.D. Napoli & J.H. Mirsky* (U.S.A.)

Influence of a New Group of Tranquillizers, Derivatives of Dibenzosuberene, on the Central Nervous System *Z. Votava, J. Metyšová & M. Soušková* (Czechoslovakia)

Pharmacological Action of a New Antidepressant Drug, Propazepine, in Comparison with Imipramine *J. Metyšová & Z. Votava* (Czechoslovakia)

Mode of Action of Centrophen-oxin and Derivatives in Fish (Behaviour and Chromatophores) *H. Nakajima, J.R. L'Huillier, L. Bajinski & J. Thuillier* (Frnace)

Pharmacological Analysis of Concomitant Narcosis and Respiratory Stimulation Induced by a Single Drug *J. Thuillier* (France)

The Pneumokinetic Activity of Dimefline (3-Methyl-7-Methoxy-8-dimethylaminomethylflavone, Rec 7-0267) compared with that of Other Central Nervous System Stimulants *I. Setnikar* (Italy)

Tremor-Inducing Drugs, Anticonvulsants, GABA

Extraction of a Seizure Substance (K Substance) from the Dog's Brain *T. Hayashi & K. Nagai* (Japan)

The Physiological Action of K Substance Extracted from Dog's Brain *T. Hayashi & K. Nagai* (Japan)

γ-Aminobutyric Acid and Vagal Respiratory Regulation *J.A. Schneider & A.B. Drakontides* (U.S.A.)

On the Activity of γ-amino-butyric-acid Derivatives on Central Nervous System Excitability *A. Bertelli & G. Gavazzi* (Italy)

The Effect of Certain Glutarimides on Brain Metabolism *P.J. Nicholls* (United Kingdom)

The Mechanism of the Antagonistic Action of Reserpine on the Anticonvulsant Effect of an Inhibitor of Carbonic Anhydrase *W.D. Gray, C.E. Rauh & R.W. Shanahan* (U.S.A.)

Tranquilizers and Antidepressants: A Pharmacological Comparison *F. Herr, J. Stewart & M.P. Charest* (Canada)

Differentiation of Central Deprepssants by Means of the Veratramine Excitation *W. Schoetensack* & *G. Hallimann* (Germany)

Three Types of Artificially Induced Tremors and the Effect of Some Antiparkinsonian Agents upon Them *I.L. Bonta* & *H.M. Greven* (Holland)

A Contribution to the Pharmacology of Tremorine-induced Tremor *P. Stern* & *J. Gašparovic* (Yugoslavia)

EEG Techniques, etc.

Contribution to the Study of Cerebral Maturation in Animals. Effect of Neurotropic Drugs *C. Radouco-Thomas, F. Martin, S. Radouco-Thomas, G. Nosal* & *J.M. Chaumontet* (Switzerland)

Relationship between Reserpine-Induced Facilitation of Evoked Potentials in the Limbic System and Change in Brain Serotonin Level *A.M. Revzin, S. Spector* & *E. Costa* (U.S.A.)

Pharmacology of Hippocampus Pyramidal Cells *F. Brücke* & *C. Stumpf* (Austria)

Stereotaxic Neuro-Psycho-Pharmacology. Electrographic Analysis and Neurovegetative Action of the N-N'-Diethylamide of the 2-Methoxy-Allylphenoxyacetic Acid (G. 29505) during Stereotaxis Functional Investigations in Man *J. Bancaud, M. Rebufat-Deschamps, J. Thuillier* & *P. Deligne* (France)

Metabolism Underlying the Electrically Stimulated Separated Cerebral Cortical Tissues *S. Kozawa* (Japan)

On the Localization of the Action of Aminazine and Analgesics in the Reticular Formation of the Brain-Stem *A.V. Valdman* (U.S.S.R.)

On the Relationship of Bioelectric Activity of the Central Nervous System to Metabolism *V.V. Vasilyeva* (U.S.S.R.)

An Analysis of Tranquilizers in Chronically Electrodes-Implanted Cat *R. Kido* & *K. Yamamoto* (Japan)

The Effect of Mescaline on the Optic Evoked Potential *J.R. Smythies, W.P. Koella* & *C.K. Levy* (U.S.A.)

Clinical Experiments, Reflexes, Conditioning

Controlled Environment: A Method of Measuring the Drug Response-Behaviour in Humans *J.C. Pollard* & *L. Uhr* (U.S.A.)

Central Autonomic Reactivity in Humans (It's alteration by moter activity, adrenaline, and CNS depressing and tranquillizing agents, e.g. amobarbital sodium, Nevental, meprobamate, carisoprodol.) *K. Rickels, J.H. Ewing & F. Fochler* (U.S.A.)

The Action of Miltown on Rats Trained to Concurrent Variable-Ratio Avoidance Schedules *L. Molinengo* (Italy)

Individual Variations of Pharmacological Central Reactions *G. Tonini & M. Babbini* (Italy)

Electroencephalographical Discrimination between Sedato-Hypnotic and Major Tranquillizing Effects in Rats with Non-Extinguishable Conditioned Reflexes *K. Kelemen, K. Magyar & J. Knoll* (Hungary)

A New Technique for Studying the Inhibitory Effects of Drugs on Discriminatory Avoidance-escape Habits in Rats *C.J.E.J. Niemegeers* (Belgium)

The Action of Some CNS Depressants and Stimulants on the "Carried" Extinction in Rats *E. Beccari & L. Molinengo* (Italy)

Assessment of Pharmacological Actions upon the Brain, Based upon Experimental Studies of Habituation *E.M. Glaser* (United Kingdom)

Studies on the Functional State of Brain in the General Action of Procaine *G.I. Zobcallo & T.M. Kucherenko* (U.S.S.R.)

The Effects of Vitamin B_{12}, B_6 and Procaine on the Conditioned Escape Response *R. Kiesewetter, R. Itterheim & J. Gebhard* (Germany)

Pharmacological Observations on the Responses to Afferent Stimulation of the Vagus Nerve *J.A. Izquierdo, A.J. Kaumann, J.D. Coussio & I. Izquierdo* (Argentine)

Effects of Drugs on Timing Behaviour *G. Maffii & D. Costantini* (Italy)

Morphine, Analeptics

Effects of Cocaine on the Central Nervous System *E. Eidelberg, H. Lesse & F.P. Gault* (U.S.A.)

Relationship between Anti-Arecolin Activity and Potentiation of the Pseudonarcotic Action of Morphine by Atropine Substitutes *A. Herz* (Germany)

The Combined Action of Morphine and Atropine *R. Eerola* (Finland)

The Influence of Morphine and Laevallorphan on Motility, Oxygen Consumption and Rectal Temperature and on the Creatine-Phosphate, ATP, ADP, Lactic Acid, Glycogen and Coenzyme-A Content of the Mouse Brain *C.J. Estler* (Germany)

Concerning the Analgesic and Antipyretic Activity of Some Anticoagulant Drugs and Vitamin K *V. Kovalčík* (Czechoslovakia)

Analysis of the Central Effect of D-Tubocurarine Chloride in the Cat *H. Kumagai* (Japan)

The Effect of Oral Antidiabetics on the Central Nervous System *A.K. Pfeifer, A. Káldor, É. Sátory & G. Pogátsa* (Hungary)

Effects of Some Aza-cycloheptenyl Derivatives on the Central Nervous System *W.A. Behrendt & R. Deininger* (Germany)

The Effect of Some Central Analeptics on the Depressive Action of Reserpine and Chlorpromazine on Respiration *A. Nicák, M. Lukasiewicz & R. Špaldonová* (Czechoslovakia)

The Pharmacological Analysis of the Hyperthermia caused by Phenamine (Amphetamine) *M.L. Belenky & M. Vitolina* (U.S.S.R.)

Anestetics, Analgetics and Related Subjects

The Action of Morphine on Impulse Propagation in Nerve Fibres *A.B. Cairnie & H.W. Kosterlitz* (United Kingdom)

Mechanism of Peripheral Nerve Block *G.A. Condouris* (U.S.A.)

Modes of Action of Tris (hydroxymethyl) amino methane (THAM) *G.G. Nahas, S.J. Dos, J. Strauss & M.H. Holmdahl* (U.S.A.)

The Mode of Action of Buffers in Modifying the Effects of Oxygen Toxicity in Mice *C. Sanger & G.G. Nahas* (U.S.A.)

The Mode of Action of a New Intravenous Anaesthetic, G 29505 *M. Swerdlow* (United Kingdom)

Oxygenation through Absorption from the Instestinal Tract *H.F. Häusler & S. Fahmy* (Austria)

The Course of Oxygen Uptake and Body Temperature in Guinea-Pigs under Urethane Narcosis *M. Maess & J. Pichotka* (Germany)

Some Oxidazolones as Anti-pyretic, Analgesic and Anti-inflammatory Agents *A.E.W. Smith* (Norway)

Phenothiazine Derivatives

Mode of Action of Chlorpromazine *P.S. Guth & M.A. Spirtes* (U.S.A.)

Effect of Largactil on Central Nystagmus *F. Bergmann, J. Lachmann, M. Chaimovitz & J. Gutman* (Israel)

The Neuroplegic Effect of Frenolon, a New Phenothiazine Compound *J. Borsy & L. Toldy* (Hungary)

On the Relation between the Ataractic and Some Other Types of Central Action of Some Phenothiazine Derivatives *B.I. Liubimov & K.S. Raevsky* (U.S.S.R.)

On the Influence of the Neuroplegic Drugs on Chemoreception *U.I. Vikhliaev* (U.S.S.R.)

Photochemical Conversion of Phenothiazines *G. Urban* (Germany)

Pharmacology of Ethanol

Failure of Ethanol and Barbiturates to Alter the Content of Brain 5 HT and N E *D.H. Efron & G.L. Gessa* (U.S.A.)

Metabolic Effect of Ethanol in Small Doses *E.S. Perman* (Sweden)

Electrically Induced Changes in Energy-Rich Phosphates of Brain Slices as Modified by Ethanol *H. Wallgren* (Finland)

Oral Hypoglycaemic Drugs and Ethanol Metabolism *W.C. Clark, R.J. Haines & P.A. Owens* (U.S.A.)

Sympathetic Ganglia

Immunosympathectomy as a New Approach to the Study of the Sympathetic System *R. Levi-Montalcini* and *P.U. Angeletti* (U.S.A.)

Cholinesterase Distribution in the Sympathetic Nervous System of the Cat *F. Sjöqvist & B. Fredricsson* (Sweden)

On the Mechanism of Action of the Ganglion-blocking Agents *D.A. Kharkevich* (U.S.S.R.)

Enhanced Postganglionic Responses of Sympathetic Ganglia to Stimulating Agents Following Repetitive Preganglionic Stimulation *R.L. Volle* (U.S.A.)

Classification of Ganglionic blocking Agents *J.M. van Rossum* (Holland)

The Effect of Various Amines on Transmission through the Superior Cervical Ganglion of the Cat *S.B. Gertner* & *A. Romano* (U.S.A.)

The Influence of Ganglion-blocking Agents on Tissue Sulphydryl-Groups Content and Analysis of the Action of Thiol Substances on Impulse Transmission in Autonomic Ganglia *S.A. Mirzoyan* (U.S.S.R.)

Peripheral Synapses, Catecholamines

Effect of Some Drugs on Noradrenaline Release from Nerve Granules *U.S. von Euler* & *F. Lishajko* (Sweden)

The Mechanism of Catecholamine Release by Tyramine *H.J. Schüman* & *A. Philippu* (Germany)

Quantitative Aspects of the Restoration of Vasoconstrictor Effects in Reserpinized Cats *S. Rosell* & *G. Sedvall* (Sweden)

The Effect of Drugs on the Uptake of Isotopic Norepinephrine in Various Tissue *H.J. Dengler* & *E.O. Titus* (Germany)

Modification of Noradrenaline Uptake by Dibenzyline *J.A. Harvey* & *J.N. Pennefather* (Australia)

Adrenaline-Noradrenaline Uptake in Rat Organs *B.C.R. Strömblad* (Canada)

Cholinergic Agents, Cholinesterase Inhibitors, Reactivators

The Behaviour of ACHE in the Optic Lobes after the Removal of the Eye in the Chick *G. Filogamo, G. Gabella* & *E. Strumia* (Italy)

The Influence of Chemical Structure on the Interaction of Gamma-Aminobutyrylcholine Derivatives and Human Cholinesterases *F.F. Foldes* & *V.M. Foldes* (U.S.A.)

The Role of the Onium Group in the Molecule of an Anticholinesterase in its Penetration through the Blood-Brain Barrier *M.J. Michelson, E.V. Zeimal, L.G. Magazanik, M.I. Kabachnik* & *N.N Godovikov* (U.S.S.R.)

The Role of Cholinergic Systems of the Brain Stem Reticular Formation in the Mechanism of Central Effects of Anticholinesterase and Cholinolytic Drugs *R.J. Ilyutchenok* (U.S.S.R.)

A Pharmacological Demonstration of Cholinergic Mechanisms in the Central Nervous System *L.S. Harris* (U.S.A.)

Amphetamine Induced Recovery of Conditioned Reflexes disturbed by Cholinolytics and Chlorpromazine *M.N. Linuchev, N.J. Lucomeskaja, M.J. Michelson & E.L. Shchelkunov* (U.S.S.R.)

Relationship between Central Anticholinergic Actions and Antiparkinson Efficacy of Phenothiazine Derivatives *R.P. White & E.J Westerbeke* (U.S.A.)

1 : 1'-Trimethylene bis (4-formylpyridinium bromide) dioxime in Anticholinesterase Poisoning *M.P. Milošević & V. Vojvodić* (Yugoslavia)

Relation between the Chemical Structure and the Acute Toxicity in the Series of Alkyl-Alkoxy Derivatives of p-Nitrophenyl-phosphoric acid and the Protective Effects of PAM-2, TMB-4 and Atropine *V. Vojvodić, D. Likar, Z. Binenfeld & M. Stevanović* (Yugoslavia)

Effects of Oximes and Atropine on the Toxicity of Tertiary and Quaternary Organophosphorous Cholinesterase Inhibitors which yield the Same Phosphorylated Cholinesterase *A. Sundwall* (Sweden)

Oxime-Atropine Therapy of Anticholinesterase Poisoning *J.F. O'Leary, A.M. Kunkel, A.H. Jones & L.M. Somers* (U.S.A.)

Effect of Some Drugs on the Amount of Cerebral Acetylcholine in Rats *Z. Fink, V. Vondráček, J. Tulach & M. Sajda* (Czechoslovakia)

Neuromuscular Transmission

An Analysis of the Effect of Pharmacological Agents on Conduction of Stimulation in Different Sections of the Neuro-muscular Junction with the aid of Multi-channel Intra-cellular Micro-electrodes *A.I. Shapovalov* (U.S.S.R.)

Effect of Depolarizing Drugs on the Neuro-muscular Transmission in Submaximal and Supramaximal Stimulation *G. Schmidt, W.D. Erdmann & H. Dal Ri* (Germany)

The Pharmacology of Substances Related to Choline *M.J. Rand & W.C. Bowman* (United Kingdom)

The Neuromuscular Blocking Action of the Triethyl Analogue of Choline *W.C. Bowman & M.J. Rand* (United Kingdom)

Certain Aspects of Pharmacology of Neuromyal Cholinergic Receptor *A.G. Karczmar, K.C. Kim & K. Koketsu* (U.S.A.)

Action of Pharmacological Drugs on the Miniature End-plate Potentials in Neuromuscular Junctions *E.A. Liberman* & *I.M. Glagoleva* (U.S.S.R.)

Neuromuscular Transmission and Tetrodotoxin *J. Cheymol* & *F. Bourillet* (Frnace)

Special Sessions on Various Topics, including Papers with some Relation to the Symposia : New Techniques

Differentiation of Substance P from Other Polipeptides and Biogenic Amines on the Isolated Nerve Smooth Muscle Preparations *S. Hukovic* (Yugoslavia)

The Estimation of 5-Hydroxytryptamine in Cerebral Tissue *D.D. Bonnycastle, M.F. Bonnycastle* & *E.G. Anderson* (U.S.A.)

An Improved Method for Biological Determination of 5-Hydroxytryptamine in Acetone Brain Extracts in the Presence of Interfering Substances *Z. Supek* & *M. Randić* (Yugoslavia)

A Simple Device for the Measuring Fluorescence of Solutions by a Photographic Method *R. Smetana* (Czechoslovakia)

The Isolating of Nerve-endings from the Central Nervous System (Film.) *V.P. Whittaker* (United Kingdom)

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第4回　神経化学懇話会：1961年11月，東京

1961年11月25日(土)，26日(日)の両日，東京都千代田区，日本都市センターで，第4回神経化学懇話会が開催された．300名にのぼる参加者があり非常に盛会で，活発な議論が行われた．なお，この懇話会の記録は“神経研究の進歩”に掲載の予定で，すでに編集は全く完了しており，4月には出版される．

プログラムをここに掲げておく．

—— 第 1 日: 11 月 25 日 (土) ——

9.00 a.m.～

主題　脳の特異物質 ……（**座長**　東大・精神　秋元　波留夫）

1. (15分) 生体内 Phenolic Amines の同定……柿本　泰男（阪大・精神）
2. (10分) α-methyl DOPA に関する研究……尾崎　正若（名市大・薬理）
3. (15分) THI-Euler 変法による Cathechol Amine 測定時，阻害因子となる“F物質”（仮称）の存在と動態について（続報）……勝木　司馬之助・山崎晴一朗・竹下司恭　西田義彦・秦昌平・西住昌裕（九大・勝木内科）

休　憩　（**座長**　東大・内科　宇尾野公義）

4. (15分) Reserpine 投与後の血中 Serotonin 量の増加と JB516 前処置のこれに及ぼす影響　板東丈夫・下康郎・長谷川紅子・松尾知枝・川口雅子（順天大・薬理）
5. (15分) 兎脳に於ける5-HT 及び Substance P の細胞内分布……片岡善由・品川嘉也　品川純子・今泉正臣（京大・生理）
6. (15分)「チオコリン改良法による神経系の検索」補遺……福田　哲雄（大阪医大・神経）

昼　食　(世話人会)

1.30 p.m.～

主　題　脳の特異物質　——つづき——　（**座長**　医歯大・神経　高橋　良）

7. (15分) マウス脳アセチルコリンの細胞粒子内分布……　……黒川正則（東大・脳研）・町山幸輝・加藤誠・秋元波留夫（東大・精神）
8. (15分) 脳におけるグルタミンの合成　——グルタミン酸代謝の Compartmentalization——……高垣玄吉郎（慶大・生理）
9. (10分) 二三薬物の脳内注射によつて発現する症状と脳グルタミン酸代謝　……斉藤章二・徳永友喜子・多田穣（慶大・薬理）

休　憩

3.00 p.m.～

主題　神経疾患の生化学　（**座長**　東大・内科　吉川　政己）

10. (15分) アミノ酸代謝の研究——アミノ酸及び
アンモニアの脳内への移行に関する研究——……冲中重雄・吉川政己・茂在敏司
寺尾寿夫・平井俊策・渡辺晴雄
荻原一晃 (東大・冲中内科)

11. (15分) 二三の精神々経疾患における脳脊髄液のアミノ酸について……
……成瀬 浩・秋元波留夫 (東大・精神)

12. (15分) 周期性四肢痲痺の Pathogenesis と甲状腺の役割……里吉営二郎・村上慶郎・古和幸久
木下真男・佐伯誠也 ・ 青木郁子
小松文子・阿部ケイ子・鳥居順三
(東邦大・阿部内科)

13. (15分) てんかんの間脳機能——インシュリン反応試験を中心に——……田中善立・桜田 敞
古郡恒宣・佐々木仁 (弘前大・精神)

14. (15分) LSD 実験精神病に関する二三の知見……鳩谷竜・ 加藤清・由良了三・石田千鶴子
(京大・精神) 前田正典 (洛南病院)

夕 食

6.15 p.m.〜

主題 神経化学の技術と方法 (座長 東邦大・第二生理 塚田裕三)

15. (30分) 神経化学の方法 ……塚田裕三 (東邦大・第二生理)

16. (20分) 脳及び血中 PO_2, PCO_2, pH, Na, K の連続的記録法 …… 後藤文男・田崎義昭
(慶大・相沢内科)

17. (20分) 脳環流の方法とその問題点 ……川北幸男 (大阪市大・神経)
河井清 (岡大・精神) 山崎晴一郎 (九大・第二内科)

18. (20分) 組織化学的研究法の特異性及び限界
——神経体液性物質を中心として ——……宇尾野公義 (東大・冲中内科)

19. (10分) 組織化学的方法の特長と限界 ……石井毅 (松沢病院)

—— 第 2 日 : 11 月 26 日 (日) ——

9.00 a.m.〜

主題 脳の機能と代謝 I ——行動の神経化学—— (座長 群大・精神 台 弘)

20. (20分) 行動変化に伴う脳内アンモニア, グルタミン及びグルタミン酸代謝の研究……
……塚田裕三・平野修助・永田豊・植村慶一
松谷天星丸 (東邦大・第二生理)

21. (20分) 反復電気刺激, 無酸素条件による脳機能の変動とその回復過程の研究……
……高橋良・仮屋哲彦・小杉健一・融道男
小林暉佳 (医歯大・神経)

22. (20分) 諸減動状態におけるマウスの行動の特性と脳内物質の刺激に対する反応……
……清水俊郎・湯浅修一・船渡川誠一郎・宮田敬一
金松直也・台弘 (群大・精神)

23. (10分) ep-マウス及び慢性ヒロポン中毒マウスの脳内電解質分布について……
……平野修助・清水俊郎 (東邦大・第二生理)

追加： Parabiosis による ep-マウスの痙攣阻止に関する研究……

陣内伝之助・森昭胤

笠原潤治・増川禎彦（岡大・陣内外科）

休　憩

11.10 a.m.～

主題　脳の機能と代謝 II　　（座長　東大・脳研　黒川正則）

24. （15分）実験的 methamphetamine 慢性投与動物に見られる解糖抑制現象と精神親和剤の及ぼす影響について……伊藤斉・三浦勇夫・石原幸夫・森文彦

開沢茂雄・舛沢郁二・里和宏（慶大・神経）

25. （15分）中枢神経系の機能と代謝について ……小沢俊次・栗山欣弥（京都府立・薬理）

昼　食

1.30 p.m.～

主題　脳の機能と代謝 II——つづき——　　（座長　慶大・生理　高垣玄吉郎）

26. （15分）ヌクレオチドおよびその関連物質とけいれん ……平山皓・宮本侃治・秋元波留夫（東大・精神）

27. （15分）脳酸溶性 Nucleotide に及ぼす中枢神経抑制剤の影響（特にラッテ及びマウスの差異について）…… 斎藤浩哉・青木公明・内田正名・飯島尚治（東北大・神経）石川秋雄（有恒会日和山病院）

28. （15分）*In vitro* および *in vivo* の脳リン脂質代謝の研究……林浩平・狩野忠雄・清水正二郎

甲斐睦興・山添三郎（群大・生化）

休　憩　　（座長　東医大・精神　佐藤倚男）

29. （10分）GABA, GABOB の中枢作用に対する追試……高坂睦年・庄盛敏廉・出宮一徳（岡大・神経）

30. （10分）中枢神経機能とフラビン ……永津俊治・八木国夫（名大・生化）

永津郁子（名大・解剖）

（座長　松沢病院　江副勉）

31. （10分）迷路学習を指標とせる電気痙攣ショックに及ぼす γ-アミノ酪酸の影響

……春田洋一（九大・精神）

32. （10分）体液遊離アミノ酸クロマトグラムの運動による変化——行動による体液変動の問題として——…… 竹原一雄（名大・環研）

5.00 p.m.　懇親会（於　会場内食堂）

*　　*　　*

—— 神経化学文献 ——

凡 例

1) Index に示してある雑誌を編集委員で分担して眼を通し，神経化学関係の論文を拾い出すことにしてあります．この雑誌の略記法は World Medical Periodicals (World Medical Association, 2nd. ed., 1957) に従っています．

2) 右側の巻(号) を示す数字は，その巻(号)に目を通してしらべたことを示し，左側の＊印は神経化学のこの号に拾い出した神経化学関係の論文表題がのっていることを示します．

3) J. Neurochem. については，その全論文の表題をのせてあります．

4) 論文表題の記載の順序は，「表題(著者)巻(号)はじめの頁-おわりの頁，年数」としてあります．

5) この論文表題集は各雑誌の 1961 年第 1 号からはじめることにしていますが，多少の例外があります．

INDEX

		担 当	
1.	**REVIEWS**		
＊	Ergebn. Physiol.	高 垣	**51**
＊	Pharmacol. Rev.	高 垣	**13**(1-3)
＊	Physiol. Rev.	高 垣	**41**(1-4)
2.	**FUNDAMENTALS**		
	Analyst	塚 田	**86**(1018-1028)
＊	Analyt. Chem.	塚 田	**33**(1-12)
	Exp. Cell Res.	高 垣	
	Fed. Proc.	高 垣	
	J. exp. Med.	川 北	
＊	Nature(Lond.)	黒 川	**189**；**190**
	Naturwissenschaften	佐 野	
	Proc. nat. Acad. Sci.(Wash.)	高 垣	
	Proc. roy. Soc. B.	高 橋(康)	
＊	Proc. Soc. exp. Biol.(N.Y.)	高 橋(良)	**106**(1-4)
	Science	成 瀬	
＊	Arch. Biochem. Biophys.	塚 田	**92**(1-3)；**93**(1-3)
＊	Biochem. biophys. Res. Comm.	高 垣	**4**(1-6)
＊	Biochem. J.	黒 川	**78**(1-3)；**79**(1-3)
	Biochemistry (USSR)	成 瀬	
＊	Biochim. biophys. Acta	塚 田	**48**(1-3)；**49**(1-3)
＊	Canad. J. Biochem. Physiol.	高 橋(康)	**39**
	Hoppe-Seylers. Z. physiol. Chem.	佐 野	
＊	J. Amer. chem. Soc.	高 垣	**83**(1-10)
	J. biol. Chem.	黒 川	
＊	J. biophys. biochem. Cytol.	宇尾野	**9**(1-4)
＊	J. Histochem. Cytochem.	宇尾野	**9**(1-4)
＊	J. Neurochem.	塚 田	**6**(1-4)；**7**(1-4)
＊	Biochem. Pharmacol.	高 垣	**6**(1-4)；**7**(1-4)
＊	Brit. J. Pharmacol.	黒 川	**16**(1-3)；**17**(1)

* J. Pharmacol. exp. Ther.	川 北	**131**(1-3)
Psychopharmacol.	高 橋(良)	
* Acta physiol. scand.	高 垣	**51**(1-4) ; **52**(1-4)
* Amer. J. Physiol.	高 垣	**200**(1-6)
* J. cell. comp. Physiol.	塚 田	**57**(1-3) ; **58**(1)
* J. gen. Physiol.	高 垣	**44**(3-6)
* J. Neurophysiol.	高 垣	**24**(1-6)
* J. Physiol.	黒 川	**155**(1-3) ; **156**(1-3)
Pflüg. Arch. ges. Physiol.	高 垣	

3. **CLINICALS**

Acta psychiat. scand.	成 瀬	
Amer. J. Psychiat.	佐 藤	**117**(7-12)
* Ann. med.-psychol.	鳩 谷	**119**-1(1-2) ; **119**-2(1)
* Arch. gen. Psychiat.	佐 藤	**4**(1-6) ; **5**(1-6)
Arch. Neurol.	佐 藤	
Arch. Psychiat. Nervenkr.	高 橋(良)	
* Brain	鳩 谷	**84**(1-2)
Clin. chim. Acta	成 瀬	
* Dtsch. Z. Nervenheilk.	高 坂	**182**(1-6)
Electroenceph. clin. Neurophysiol.	高 垣	
Encéphale	高 橋(良)	
* Endocrinology	鳩 谷	**68**(1-6)
Epilepsia	高 橋(良)	
* Exp. Neurol.	高 橋(康)	**4**(1-3)
* Fortsch. Neurol. Psychiat.	高 坂	**29**(1-2)
* J. clin. Endocr.	鳩 谷	**21**(1-7)
J. clin. Invest.	高 坂	
J. Endocr.	高 坂	
J. ment. Sci.	鳩 谷	
* J. nerv. ment. Dis.	川 北	**132**(1-6)
J. Neuropsychiat.	佐 藤	
Nervenarzt	佐 野	
* Neurology(Minneap.)	高 坂	**11**(1-6)
Psychiat. et Neurol.	川 北	
* Schweiz. Arch. Neurol. Psychiat.	鳩 谷	**87**(1-2)

Ergebn. Physiol.

The mechanism of synaptic transmission (Eccles J.C.) **51** : 299-430, 1961

Pharmacol. Rev.

The actions of substances introduced into the cerebrospinal fluid and the problem of intracranial chemoreceptors (Winterstein H.) **13**(1) : 71-107, 1961

The concept of carrier transport and its corollaries in pharmacology (Wilbrandt W. & Rosenberg T.)**13**(2) : 109-183, 1961

Neurohypophysial hormones(Sawyer W.H.) **13**(2) : 225-277, 1961

5-Hydroxytryptamine antagonists (Gyermek L.) **13**(3) : 399-439, 1961

Physiol. Rev.

The blood-brain barrier (Dobbing J.) **41**(1) : 130-188, 1961

Protein metabolism in the nervous system (Waelsch H. & Lajtha A.) **41**(4) : 709-736, 1961

Analyt. Chem.

Gas-liquid chromatography of amino acid derivatives (Johnson D.E., Scott S.J. & Meister A.) **33**(6) : 669-672, 1961

Rapid spectro-photometric determination of total choresterol in small amounts of blood and cerebrospinal fluid (Shin Y.S. & Lee J.C.) **33** (9) : 1220-1222, 1961

Nature(Lond.)

Gradient of cholinesterase activity and of choline acetylase activity in nerve fibres (Lubinska L., Niemierko S. & Oberfeld B., Hebb C.O. & Silver A. **189**(4759) : 122-124, 1961

Levels of serotonin during convulsion and the effect of reserpine (Gal E.M. & Drewes P.A.) **189**(4760) : 234, 1961

Repression and de-repression of enzyme synthesis as a possible explanation of some aspects of drug action (Shuster L.) **189**(4761) : 314, 1961

Glutamic acid metabolism in brain and liver during infusion with ammonia labelled with nitrogen-15 (Takagaki G., Berl S., Clark D.D., Purpura D.P. & Waelsch H.) **189**(4761) : 326, 1961

Significance of membrane calcium in calcium-free and potassium-rich media (Koketsu K. & Miyamoto S.) **189**(4762) : 403, 1961

Distribution of acetylcholine and cholinesterase in the heart of white rats (Vlk J., Tucek S. & Habermann V.) **189**(4768) : 923, 1961

Pharmacological specificities of neurones in an elementary central nervous system (Gerschenfeld H. & Tauc L.) **189**(4768) : 924, 1961

Aminoglycolipids and glycoproteins of human brain (Bogoch S. & Failace L.A.; Bogoch S., Belval P.C. & Winor D ; Bogoch S.) **190**(4771) : 150, 1961

Interaction of acetylcholine, calcium and depolarization in the contraction of smooth muscle (Edman P. & Schild H.O.) **190**(4773) : 350, 1961

Influence of gamma-aminobutyric acid on the acetylcholine responses of the denervated rat-diaphragma preparation (Watson R.S.) **190**(4777) : 724, 1961

Changes of quantity of flavin in the brain after peripheral administration of flavins (Nagatsu I., Nagatsu T. & Yagi K.) **190** (4777) : 728, 1961

Cholinesterase in the chicken nervous system (Cavanagh J.B. & Holland P.) **190**(4777) : 735, 1961

Assay of 5-hydroxytryptophan decarboxylation in intact brain (Pletscher A. & Gey K.F.) **190**(4779) : 918, 1961

Choline acetylase in the human placenta at different stages of development (Bull G., Hebb C. & Ratković D.) **190**(4782) : 1202, 1961

Proc. Soc. exp. Biol.(N.Y.)

Studies of the metabolism of 5-hydroxytryptamine (serotonin) I. Effect of starvation and thiamine deficiency (Gal E.M. & Drewes P.A.) **106**(2) 295-297, 1961

Threshold and pattern of electroshock seizures in ataxic manganese-deficient rats (Hurley L.S., Woolley D.E. & Timiras P.S.) **106**(2) : 343-346, 1961

Effect of potassium on membrane current of single Ranvier node during excitation (Wright E.B. & Ooyama H.) **106**(2) : 387-391, 1961

A microbioassay for acetylcholine (Nastuk W.L. & Levine L.) **106**(3): 502-505, 1961

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Anticonvulsant and toxicologic properties of some benzilic amides and the physiological disposition of the N-ethyl derivative (Albert J.R., Boxill G.C. & Weikel J.H. Jr.)**131**(1) : 85-90, 1961

Neurochemical correlates of behavior I. Quantitative measurement of the behavioral effects of the serotonin precursor, 5-hydroxytryptophan(Aprison M.H. & Ferster C.B.)**131**(1) : 100-107, 1961

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The effects of adrenergic blockade on cationic exchanges in contracting muscle (Sreter F.A. & S.M. Friedman)**131**(2) : 158-166, 1961

The effect of reserpine on gangrene produced by thiopental in the mouse's tail (Burn J.H. & McDougal D.B. Jr.) **131**(2) : 167-170, 1961

Some studies on the anti-tumor effect of reserpine in mice (West W.L., Baird G.M., Steward J.D. & Pradhan S.N.)**131**(2) : 171-178, 1961

The anti-reserpine effects of certain centrally acting agents (Chen G. & Bohner B.) **131**(2) : 179-184, 1961

The effect of maturation on chemically-induced seizures in rats(Pylkko O.O. & Woodbury D.M.)**131**(2) : 185-190, 1961

The effects of monoamine oxidase inhibitors on ganglionic transmission(Gertner S.B.)**131**(2) : 223-230, 1961

Investigation of certain aspects of atropine-resistant nerve effects(Ursilleo R.C.) **131**(2) : 231-236, 1961

Mode of action of succinylcholine on sensory endings of mammalian muscle spindles(Smith C.M. & Eldred E.)**131**(2) : 237-242, 1961

Nature of the inhibition of carbonic anhydrase by acetazolamide and benzthiazide(Leibman K.C., Alford D. & Boudet R.A.)**131**(3) : 271-274, 1961

Metabolism of 3-hydroxy-and 3,4-dihydroxyphenyl-pyruvic acids *in vivo*(Pogrund R.S., Drell W. & Clark W.G.)**131**(3) : 294-307, 1961

The effects of carbon dioxide on the entry and accumulation of drugs in the central nervous system (Goldberg, M.A., Barlow C.F. & Roth L.J.) **131**(3): 308-318, 1961

The separate and combined respiratory effects of chlorpromazine and meperidine in normal men controlled at 46 mmHg alveolar pCO_2 (Lambertsen C.J., Wendel H. & Longenhagen J.B.)**131**(3) : 381-393, 1961

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Effect of reserpine on the storage of catechol amines in brain and other tissues

(Bertler Å) **51**(1) : 75-83, 1961

Occurrence and localization of catechol amines in the human brain (Bertler Å) **51**(2/3) : 97-107, 1961

Influence of noradrenaline on spinal interneuron activity (Skoglund C.R.)**51**(2/3): 142-149, 1961

Effects of intravenous infusions of adrenaline and noradrenaline on certain psychological and physiological functions (Frankenhaeuser M., Järpe G. & Matell G.) **51**(2/3) : 175-186, 1961

Noradrenaline release from isolated nerve granules (von Euler U.S. & Lishajko F.) **51**(2/3) : 193-203, 1961

A method for continuous measurement of the carbon dioxide tension on the cerebral cortex (Siesjo B.K.) **51**(4) : 297-313, 1961

Aspects on the glucose metabolism of the hypothalamus and the pituitary in goats (Andersson B., Larsson S. & Pocchiari F.) **51**(4) : 314-324, 1961

Improved technique for the fluorimetric estimation of catecholamines (von Euler U.S. & Lishajko F.) **51**(4) : 348-356, 1961

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Effect of reserpine on the release of catecholamines from isolated nerve and chromaffin cell granules (von Euler U.S. & Lishajko F.) **52**(2) : 137-145, 1961

The fate of uniformly labelled ^{14}C fructose in different parts of the brain and the pituitary in goats (Larsson S.) **52**(2) : 171-177, 1961

Photometric estimation of the relative amount of DNA in early chick embryos (Emanuelsson H.) **52**(3-4) : 197-210, 1961

Cholinesterases in human spinal fluid and brain (Svensmark O.) **52**(3-4) : 372-378, 1961

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Active transport of Diodrast and phenolsulfonphthalein from cerebrospinal fluid to blood (Pappenheimer J.R., Heisey S.R. & Jordan E.F.) **200**(1) : 1-10, 1961

Movement of radioactive tracers across squid axon membrane (Tasaki I., Teorell T. & Spyropoulos C.S.) **200**(1) : 11-22, 1961

Oxidative metabolism of incubated cerebral cortex slices from pyridoxine-deficient kittens (McKhann G.M., Mickelsen O. & Tower D.B.) **200**(1) : 34-38, 1961

Identification of mitochondria by osmotic swelling and tetrazolium staining(Miller A.T.Jr. & Gunn L.D.) **200**(1) : 89-93, 1961

Effect of body temperature change on cerebral oxygen consumption of the intact monkey (Bering E.A.Jr.) **200**(3) : 417-419, 1961

Ammonia toxicity and cerebral oxidative metabolism (McKhann G.M. & Tower D.B.) **200**(3) : 420-424, 1961

Metabolic changes of excitable tissue in sodium-free hydrazinium solution (Abood L.G., Koketsu K., Barbato L. & Dobbs B.) **200**(3) : 425-430, 1961

Effect of DNP on phosphorylation and bioelectric phenomena of excitable tissues (Abood L.G., Koketsu K. & Noda K.) **200**(3) : 431-436, 1961

Effect of hyperoxia, hypercapnia, and hypoxia on blood-cerebrospinal fluid barrier (Lending M., Slobody L.B. & Mestern J.) **200**(5) : 959-962, 1961

Quantitation of cerebral ischemic pressor response in dogs (Sagawa K., Ross J.M. & Guyton A.G.) **200**(6) : 1164-1168, 1961

Physical and metabolic factors in diffusion of solutes into tissue slices (Cascarano J. & Zweifach B.W.) **200**(6) : 1285-1292, 1961

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The cilioexcitatory activity of serotonin (Gosslin R.E.) **58**(1) : 17-26, 1961

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Quantitative studies of white matter I. Enzymes involved in glucose-6-phosphate metabolism (McDougal D.B.Jr., Schulz D.W., Passonneau J.V., Clark J.R. Reynolds M.A. & Lowry O.H.) **44**(3) : 487-498, 1961

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J. Physiol.

Release of acetylcholine from the cerebral cortex and the cerebellum (Mitchell J.F.) **155**(1) : 22p.-23p., 1961

The action of acetylcholine and some related substances on conduction in mammalian non-myelinated nerve fibres (Armett C.J. & Ritchie J.M.) **155**(2) : 372-384, 1961

A new test preparation for bio-assay of factor I and gamma-aminobutyric acid (Florey E.) **156**(1) : 1-7, 1961

The measurement of sodium and potassium activities in the squid axon by means of cation-selective glass microelectrodes (Hinke J.A.M.)**156**(2) : 314-335, 1961

The stimulant effect of barium on the release of acetylcholine from the superior cervical ganglion (Douglas W.W., Lywood D.W. & Straub R.W.) **156**(3) : 515-522, 1961

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Recherche sur les principes catatonigènes de la bile humaine (Launey, J., Perlès R. et Cournut J.) **119-2**(1) : 99-116, 1961

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Serum oxidase tests and schizophrenia (Yuwiler A., Jenkins I.M. & Dukay A.) **4**(4) : 395-403, 1961

Urinary aminochromes in schizophrenia (Veech R.I., Bigelow L.B., Denckla W.D. & Altschule M.D.) **5**(2) : 127-130, 1961

An indole stress reactant (Mandell A.J., Slater G.G. & Mersol I.) **5**(3) : 234-236, 1961

Radioactive serotonin in relation to schizophrenia (Feldstein A., Hoagland H. & Freeman H.) **5**(3) : 246-251, 1961

Urinary porphobilinogen (Kaelbling R., Craig J.B. & Pasamanick B.) **5**(5) : 494-508, 1961

Brain

The diagnostic value of the chemical examination of cerebral cyst fluids (Szliwowski H.B. & Cumings J.N.) **84**(2) : 204-211, 1961

Brain lipids in multiple sclerosis and other diseases (Gerstl B., Kahnke M.J., Smith J.K., Tavaststjerna M.G. & Hayman R.B.) **84**(2) : 310-319, 1961

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Electolyte distribution in mammalian central nervous system (Katzman R.) **11**(1) : 27-36, 1961

The brain Ach-AchE-ChA system in respiratry control(Metz B.) **11**(1): 37-45, 1961

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Effect of adrenocortical hormones on evoked potentials in the brain stem (Feldman S., Todt J.C. & Proter R.W.) **11**(2) : 109-115, 1961

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Neuromuscular toxicity of veratrum alkaloids (Kolb J.Jr. & Korein J.) **11**(2): 159-163, 1961

Identification and quantitation of N-acetylneuraminic acid in human cerebrospinalfluid (Jakoby R.K. & Warren L.) **11**(3) : 232-238, 1961

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Studies on the metabolism of dephenylhydantoin(Dilantin)(Loeser E.W.Jr.)**11**(5): 424-429, 1961

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Neue Ergebnisse in der Blut-Hirnschrankenforschung (Bakay L.) **182**(3) : 238-249, 1961

Die 17-Hydroxycorticosteroid-und Katecholaminausscheidung bei intrakranieller Drucksteigerung im Tirversuch (Brilmayer, H. & Marguth F.) **182**(3) : 250-257, 1961

Immunoelektrophoretische Untersuchungen bei multipler Sklerose (Schrader A. & Knedel M.) **182**(6) : 597-605, 1961

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The influence of reserpine, serotonin and metabolites of tryptophane on the degradation of thyroxine and its derivatives (Galton V.A. & Ingbar S.H.) **68**(3) : 435-449, 1961

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Inhibition of adrenal corticosteroid release by brain stem stimulation in cats (Slusher M.A. & Hyde J.E.) **68**(5) : 773-782, 1961

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Clinical and biochemical studies of an amphetamine withdrawal psychosis(Young G.G., Simson C.B. & Frohman C.E.) **132**(3) : 234-238, 1961

The influence of varying dosage on the effects of lysergic acid diethylamide (LSD-25) in humans (Klee G.D., Bertino J., Weintraub W. & Callaway E.) **132**(5) : 404-409, 1961

On the origin of the lipoproteins in the cerebrospinal fluid (Swahn B., Brönnestam R. & Dencker S.J.) **11**(5) : 437-440, 1961

Demonstration of large blood proteins in cerebrospinal fluid (Dencker S.J., Brönnestam R. & Swahn B.) **11**(5) : 441-444, 1961

Effect of antidiuretic hormones on renal sodium and potassium excretion in a patient with traumatic diabetes insipidus (Nash F.P. & Smolik E.A.)**11**(6) : 494-496, 1961

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Mechanisms of drug absorption and distribution (Schanker L.S.)

Metabolic fate of drugs (Maynert E.W.)

Effects of temperature on the action of drugs (Fuhrman G.J. & Fuhrman F.A.)

Biochemical effects of drugs (Burns J.J. & Shore P.A.)

Recent laboratory studies and clinical observations on hypersensitivity to drugs and use of drugs in allergy (Carr E.A.Jr., & Aste G.A.)

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Pharmacologically active substances of mammalian origin (Erspamer V.)

Pharmacology of autonomic ganglia (Trendelenburg U.)

Neuromuscular pharmacology (Grob D.)

Cardiovascular pharmacology (deV Cotten M. & Moran N.C.)

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The physiology of the insect nervous system (Vowles D.M.)

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1. The problem of the origin of the pyramidal tract (Walshe F.)
2. The pathology and pathogenesis of multiple sclerosis (Lumsden C.E.)
3. The diagnostic value of motor-point muscle biopsy (Harriman D.)
4. Calcarine cortex and cerebral organization (Whitteridge D.)
5. Asymmetry of cerebral hemisphere function (Zangwill O.L.)
6. The appleid physiology of sleep (Jefferson G.)
7. The pharmacology of the reticular activating system (Exley K.A.)
8. Cerebral lipidoses (Cumings J.N.)
9. The electroencephalographic diagnosis of the epileptogenic focus (Hill D.)
10. Broca's contribution to aphasia reviewed a century later (Critchley M.)
11. Some observations on the facilitation or arrest of epileptic seizures (Symonds C.)
12. Some observations on trigeminal neuralgia (Pennybacker J.)
13. Writer's cramp and the conditioned reflex (Liversedge L.A.)
14. Radiology of strokes (Bull W.D.)
15. The treatment of posterior communicating aneurysms (McKissock W.)
16. The syndromes of basilar insufficiency (Williams D.)
17. Leucoencephalitis (Miller H.)
18. Disseminated sclerosis: Today's great imitator (Van Bogaert L.)
19. The diagnosis of traumatic tetraplegia (Cook J.B.)
20. The rational use of tranquillizing drugs (Roberts J.M.)

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Ionic mechanisms in electrogenesis (Grundfest H.)

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Nervous control of chemosensitivity in muscle (Thesleff S.)

An analysis of intra-versus extracellular potential changes associated with activity of single spinal motoneurons (Terzuolo C.A. & Araki T.)

The organization of cortex with respect to its afferent supply (Bishop G.H.)

Electrophysiological properties of an archicortical neuron (Kandel E.R. & Spencer W.A.)

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High nervous functions : brain functions and learing (John E.R.) **23** : 451-484

Comparative physiology : transmitter substances (Florey E.) **23** : 501-528

KWIC Index to Neurochemistry, prepared by Mimosa Frenk Foundation for Applied Neurochemistry, and IBM

Edgar G.W.F. が編者となって，このような Index が出ている．From the literature on the biochemistry of neuro-psychiatric disease since 1960 と書いてあって，すでに1961年の最初も含まれている．今后つづけて出るようであるが，その形式などはっきりしない．IBM との共同でつくられていることからおわかりのように Index として用いるのに合理的になっているが，馴れないとわかりにくい．つづけて出るようになれば，文献を調査するには有用なものとなるであろう．購読その他は，下記に連絡すればよい．

MIMOSA FRENK FOUNDATION FOR APPLIED NEUROCHEMISTRY
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The Netherlands

—— ニュース ——

International Symposium on Enzymic Activity of the Central Nervous System

WFN (World Federation of Neurology) の Commission of Neurochemistry の主催によって来たる6月18日—21日，Sweden の Göteborg で国際シンポジウムが開かれる．演題提出のメ切はもう過ぎているが，参加者の会費は$10.00 である．

シンポジウムの主題は "Enzymic Activity of the Central Nervous System" で，予講集 (Abstracts) は Acta Neurologica Scandinavica の Supplement として出ることになっている．会場は Göteborg の Sahlgrenska University Hospital で，6月18，19，21日は午前，午后ともにシンポジウムがあるが，20日は Excursion のみでシンポジウムはない．

The First Asian and Oceanian Congress of Neurology

第1回アジア大洋洲神経学会が10月7日—9日，東京の日本都市センターで開かれる．Information Bulletin No. 1 はすでにアジア各国に発送された．シンポジウムのトピックは，つぎの5つであって，Eccles あるいは Curtis の来日も予定されている．

1. Symposium on Neuroepidemiology I
2. Symposium on Neuroepidemiology II
3. Cerebrovascular Disease
4. Neurophysiological Topics
5. Epilepsy
6. Neuroradiological Examination

神経化学懇話会入会申込

すでに申込会員は 200名に達し，この "神経化学" の次号(4月中に発行予定)が出るころに会員名簿をつくる計画になっている．趣意書を再録し，申込用紙を添えてあるのでまだ申込まれていない方，あるいはそういう方をご存じの方は至急にご手続き願いたい．

Course on Cybernetics of Neural Processes

4月26日—5月13日にナポリで上記のゼミナールが開かれる．NATOの Advanced Study Institute Programme としてナポリ大学で開催されるもの．参加希望者は3月15日以前に Dr. E.R. Caianiello に問合せること．

Dr. E.R. Caianiello
Director of the School
Istituto di Fisica Teorica
Mostra d'Oltremare
Pad. 19, Napoli

第5回　神経化学懇話会演題募集

昭和37年2月18日東京において第2回常任委員会を開き，次回懇話会演題募集要項を次のように決定した．11月17日（土），18日（日），大阪府厚生会館（大阪市東区森之宮西之町）で中脩三会長のもとに開かれる．

1）シンポジウム主題

a）内因性精神病と精神薄弱の代謝異常

b）脳細胞成分（Subcellular Units）の生化学

2）一般演題

申込期日：9月22日（土）

申込み方法：ほぼ昨年と同じ．詳細は次号をご覧下さい．7月末日までに所定原稿用紙を請求して，抄録を提出する．なお，演題申込み者は神経化学懇話会々員でなければなりません．

第5回国際神経化学シンポジウム

今年で第5回目を迎える国際神経化学シンポジウムは，6月11日—15日，オーストリアの Strobl (on the St. Wolfgang Lake in the province of Salzburg) で開かれる．Organizing Committee の委員長は D. Richter, Local Organizer は F. Brücke と H. Lechner. 例により closed system で行われ，招かれた人は2月1日までに抄録を送らねばならぬ．トピックは "Comparative Neurochemistry" で，さらに次の5つに分れている．なお，Proceedings はのちに出版される．

"COMPARATIVE NEUROCHEMISTRY"

TOPICS FOR PROGRAMME

1. Structural Characterization of the Nervous System in Different Species
2. Variation of Chemical Composition of the Nervous System in Different Species
3. Variation in the Metabolism of the Nervous System in Different Species
4. Chemical Aspects of Function in the Nervous System in Different Species
5. Comparative Neuropharmacology

神経化学懇話会趣意書

近時国際的にも脳神経の生化学的研究に対する関心が高まり，その研究水準も急速に，向上するに至りました．一方，わが国においても神経化学に志す人々が増加し，充実した研究業績が数多く発表される様になり，第4回神経化学懇話会（昨年11月25•26日）も盛会裡に終了致しました．この様な情勢のもとでわが国の神経化学の研究を一段と推進させ，国内はもとより国際関連学会との連絡を密にし，基礎・臨床の研究者を統合し研究実績をより充実させるため，ここに神経化学懇話会を一定の会則を定めた会員制による「会」に発展させることになりました．しかし本会はあくまで従来の学会形式をさけ，より実り多い業績発表の形式を採用し，会員相互の親睦と情報の交換をはかることを目的としております．

さきの第4回神経化学懇話会に際し発起人会を開き，別記の如き暫定的な会則を定めて発足しようとしております．従来神経化学懇話会にご参加下さいました方々，並びに今後神経化学の研究に従事される方々，あるいは多大の興味をもたれる方々に，1人でも多く会員として参加して頂き，本会発展のために御盡力下さいますよう切にお願いする次第であります．

なお，本会役員として，とりあえず下記の方々を選定致しました．

委　員　（ABC 順，*印は常任委員）

相沢豊三	（慶大・内科）	*成瀬　浩	（東大・神経科）
秋元波留夫	（東大・神経科）	冲中重雄	（東大・内科）
江上不二夫	（東大・理学部生化学）	奥村二吉	（岡大・神経科）
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三浦岱栄	（慶大・神経科）	*宇尾野公義	（東大・内科）
村上　仁	（京大・神経科）	台　弘	（群大・神経科）
中　修三	（阪市大・神経科）	吉川政己	（東大・内科）

常任委員長には塚田裕三を選任し，事務局は東邦大学医学部第2生理学教室（東京都大田区大森4の77）におくことになりました．

なお，本年度（昭和37年・秋）の研究発表会（シンポジウム）は中修三会長のもとに大阪で開催し，その際第1回総会を開催することになりました．

昭和37年1月　　神経化学懇話会発起人一同

会　則

第1条　本会は神経化学懇話会（The Japanese Neurochemical Society）という．神経化学の発展を促し，会員相互の連絡，内外の関連機関との連絡を図ることを目的とする．

第2条　本会の会員は次のとおりとする．

1．正会員：本会の目的に賛同し，所定の会費を納める者．会費は当分の間，年額500円とする．

2．賛助会員：本会の事業を援助し，1口以上の賛助会員費を納める者または団体．1口は年額1万円とする．

第3条　会員は本会の行う事業に参加し，会誌および印刷物の配布をうける．

第4条　会員になろうとする者は，会費を添えて，所定様式の入会申込書を事務局に提出する．退会しようとする者は，退会届を提出する．

第5条

1．本会には役員として，委員若干名をおく，委員は総会で選任する．委員の中から会長1名，常任委員若干名を定める．

2．会長は，毎年選出され，研究発表会および総会を主催する．

3．委員会は，必要に応じて会長が招集し，本会の運営につき必要な事項を審議する．

4．常任委員の中より常任委員長を選出する．常任委員会は，必要に応じて常任委員長が招集し，研究発表会の開催，会誌の編集に関する事項，その他会の目的達成に必要な事項を処理する．

第6条　委員の任期は2年として，再任を妨げない．

第7条　本会は年1回全国的研究発表会を行い，その際総会を開く．

第8条　総会において，会計報告および常任委員会で必要と認めた事項について承認をうる．

第9条　総会は会員の10分の1以上，委員会は委員の4分の1以上，常任委員会は常任委員の2分の1以上の出席を必要とする．但し委任状をみとめる．

第10条　本会の会計は，常任委員会の議決を経て，常任委員長が管理する．

第11条　この会則は，委員会および総会において，3分の2以上の議決を経て変更することが出来る．

第12条　会則施行についての細則は，常任委員会の議決を経て別に定める．

付則

1．本会の事務局は，当分の間，東邦大学医学部第2生理学教室（東京都大田区大森4の77）におく．

2．第1回総会以前の役員は，発起人会により選任される．

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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本会員以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．

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目　次

〔創刊の辞〕　— 塚田　裕三 —

〔学　会〕

第1回国際薬理学会　1961年8月　ストックホルム… 3
第4回神経化学懇話会　1961年11月　東京……17

〔神経化学文献〕……20

〔書　架〕……42

〔ニュース〕

International Symposium on Enzymic Activity of the Central Nervous System ……46

The First Asian and Oceanian Congress of Neurology……46

神経化学懇話会入会申込その他……46

会則……48

緒方書店刊