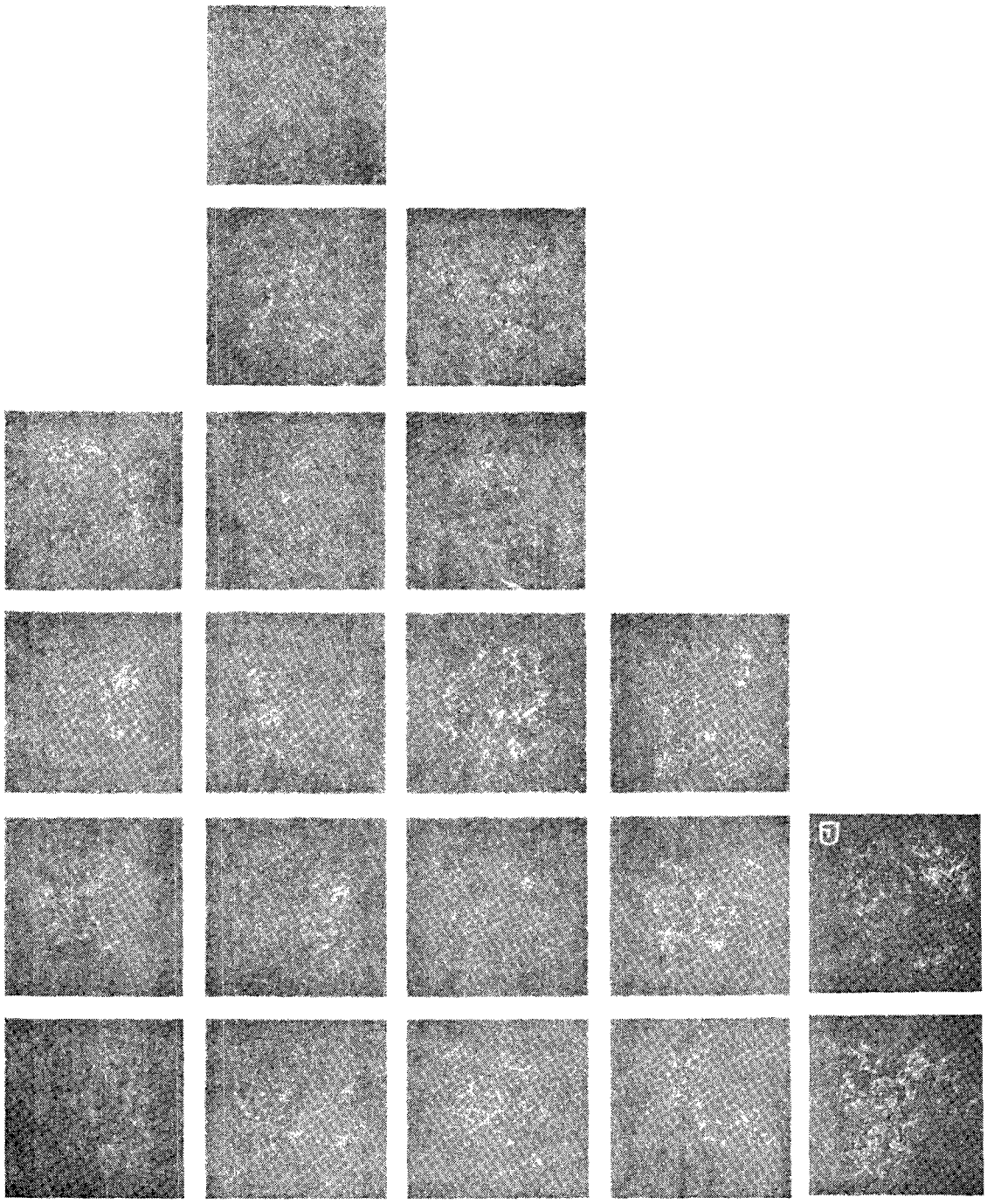
神経化学

VOL. 5 NO. 6 DECEMBER 1966



日本神経化学会

—神経化学文献—

CLASSIFICATION OF NEUROCHEMISTRY TITLES

I.	General Neurochemistry	808- 842
II.	Electrolytes, Metals & Inorganic Constituents	843- 873
III.	Carbohydrates & Related Compounds	860- 873
IV.	Amino Acids, Peptides & Related Compounds	874- 894
V.	Proteins	895- 911
VI.	Nucleic Acids & Related Compounds	912- 923
VII.	Lipids, Steroids & Related Compounds	924- 964
VIII.	Biogenic Amines	965-1014
IX.	Neuro- & Psychotropic Drugs	1015-1109
X.	Subcellular Units	1110-1116
XI.	Enzymes & Co-factors	1117-1147
XII.	Metabolism	1148-1152

LIST OF JOURNALS COVERED

A	Acta Neurol. Scand.	42(3), Supl. (21)*
	Acta Physiol. Scand.	67(1, 2), Suppl. 265, 266*, 267*, 268*, 269*, 270.
	Acta Psychiat. Scand.	
	Am. J. Physiol.	210(6), 211(1)
	Am. J. Psychiat.	123(1)*, 123(2, 3)
	Analyst	91(1083*, 1084*, 1085*)
	Anal. Biochem.	16(1*, 2*)
	Anal. Chem.	38(8, pt. 1 & 2)*, 38(9*, 10*)
	Arch. Biochem. Biophys.	114(3), 115(1*, 2*)
B	Biochem. Biophys. Res. Commun.	23(5*, 6*), 24(1*, 2, 3, 4*, 5*)
	Biochem. J.	100(1, 2)
	Biochem. Pharmacol.	15(6, 7, 8, 9)
	Biochem. Z.	344(4*, 5*), 345(2)*, 346(1)*
	Biochemistry	5(7, 8*)
	Biochim. Biophys. Acta	118(3)*, 119(3), 120(2*, 3), 121(2), 122(1*, 2*), 123(1, 2), 124(1, 2*), 125(1)*
	Brain	89(2)
	Brain Res.	2(1, 2, 3)
	Brit. J. Pharmacol.	27(1, 2)
	Brit. J. Psychiat.	112(487, 488, 489*)
C	Can. J. Biochem.	44(7*, 8*, 9*)
	Can. J. Physiol. Pharmcol. ...	44(4)
E	Electroencephalog. Clin. Neurophysiol.	21(1, 2*, 3)
	Ergeb. Physiol. Biol. Chem. Exp. Pharmakol.	57
	Exp. Brain Res.	2(1)

	Exp. Cell Res.	42(3)
	Exp. Neurol.	15(3, 4)
F	Federation Proc.	24(4), pt. 1, pt. 2*.
H	Hoppe-Seylers Z. Physiol. Chem.	344(4/6)*, 345(1*, 2/3*, 4/6*), 346(1/2*)
I	Intern. J. Neuropharmacol. ...	5(3, 4)
	Intern. Rev. Neurobiol.	
J	Jap. J. Pharmacol.	16(2, 3)
	Jap. J. Physiol.	16(3)*
	J. Biochem. Tokyo	59(6)*, 60(1, 2*)
	J. Biol. Chem.	241(12*, 13*, 14, 15, 16)
	J. Cell Biol.	29(3), 30(1*, 2*)
	J. Cell Physiol.	67(3, pt. 1*, pt. 2*)
	J. Clin. Endocrinol. Metab. ...	26(6, 7*, 8)
	J. Clin. Invest.	45(6*, 7, 8*)
	J. Exp. Med.	124(1*, 2*, 3*)
	J. Gen. Physiol.	49(6, pt. 1*, pt. 2*)
	J. Histochem. Cytochem.	14(3*, 4*, 5, 6, 7)
	J. Lipid Res.	7(4)
	J. Neurochem.	13(7, 8)
	J. Neurol. Sci.	3(4)
	J. Neurophysiol.	29(4)*
	J. Pharmacol. Exp. Therap. ..	152(3), 153(1, 2)
	J. Physiol. London	184(3, 4), 185(1, 2)
	J. Psychiat. Res.	4(1)
L	Life Sci.	5(12, 13, 14, 15, 16, 17)
N	Nature	210(5043), 211(5044, 5045*, 5046, 5047, 5048, 5049, 5050, 5051*, 5052*, 5053*, 5054)
	Naturwissenschaften	53(13*, 14*, 15, 16*, 17*)
	Neurology	16(7, 8, 9)
	Neuropsychologia	
P	Pflugers Arch. Ges. Physiol. .	289(4)*, 290(1*, 2*, 3, 4)
	Pharmacol. Rev.	18(2)
	Physiol. Rev.	46(3)
	Proc. Nat. Acad. Sci. U.S.A. .	55(6), 56(1)
	Proc. Roy. Soc. London Ser. B.	164(997)*, 165(998*, 999*)
	Proc. Soc. Exp. Biol. Med. ..	122(2, 3)
	Psychopharmacologia	9(3, 4, 5)
S	Science	152(3730), 153(3731, 3732*, 3733, 3734, 3735*, 3736*, 3737, 3738*, 3739*, 3740*, 3741*, 3742)
	Sci. Am.	215(1, 2*, 3*)

* 印は，その号についても検索したが，神経化学文献が見当らなかつたことを示します。
なお，「神経化学」のこの号には Proceedings of the 5th international congress of neuropathology, ed. by F. Lüthy & A. Bischoff, 1966, Excerpta medica foundation からも文献を載録しました。

I. GENERAL NEUROCHEMISTRY (808– 842)

808. Allegranza, A., et al.
Progressive familial myoclonus epilepsy of Univerricht-Lundborg. Histochemical and ultrastructural study of the S.C. Lafora's bodies.
Proc. 5th. Intern. Congr. Neuropathol.: 999-1003, '66

809. Betz, E., et al.
Regional blood flow in the cerebral cortex, measured simultaneously by heat and inert gas clearance.
Acta Physiol. Scand. 67(1): 1-9, '66

810. Blackwood, W. & Cumings, J.N.
The combined histological and chemical aspects of cerebral biopsies.
Proc. 5th. Intern. Congr. Neuropathol.: 364-71, '66

811. De Anda, G. & Rebollo, M.A.
Morphologie et histochemie des fuseaux neuromusculaires.
Proc. 5th. Intern. Congr. Neuropathol.: 684-6, '66

812. Dubowitz, V.
Some recent histochemical and histological observations in developing muscle and in various neuromuscular disorder.
Proc. 5th. Intern. Congr. Neuropathol.: 658-64, '66

813. Friede, R.L.
Quantitative and microscopical enzyme histochemistry in human neuropathological material.
Proc. 5th. Intern. Congr. Neuropathol.: 389-95, '66

814. Griffith, J.S.
A theory of the nature of memory.
Nature 211(5054): 1160-3, '66

815. Hydén, H.
Cellular chemistry of cerebral biopsies.
Proc. 5th. Intern. Congr. Neuropathol.: 382-8, '66

816. Klinghardt, G.W.
Arzneimittelschädingungen des peripheren Nervesystems unter besonderer Berücksichtigung der Polyneuropathie durch Isonicotinsäurehydrazid. (experimentalle und human pathologische Untersuchungen)
Proc. 5th Intern. Congr. Neuropathol.: 292-301, '66

817. Kuffler, S.W. & Nicholls, J.G.
The physiology of neuroglial cells.
Ergeb. Physiol. Biol. Chem. Exp. Pharmakol. 57: 1- , '66

818. Lehoczky, T., et al.
Changement neuropathologiques par la porphyrie expérimentale.
Proc. 5th Intern. Congr. Neuropathol.: 973-5, '66

819. McGaugh, J.L.
Time-dependent processes in memory strage.
Science 153(3742): 1351-8, '66

820. Moroz, C., et al.
Isolation and characterization of a neurotoxin from Vipera palestinae venom. (BBA 25549)
Biochim. Biophys. Acta 124(1): 136-46, '66

821. Mossakowski, M.J.
Some aspects of the morphology and histochemistry of the cerebral changes in hepatic coma.
Proc. 5th Intern. Congr. Neuropathol.: 981-6, '66

822. Pappas, G.D., & Purpura, D.P.
Distribution of colloidal particles in extracellular space and synaptic cleft substance of mammalian cerebral cortex.
Nature 210(5043): 1391-2, '66

823. Peterson, L.R.
Short-term memory.
Sci. Am. 215(1): 90-5, '66

824. Plotnikoff, N.
Magnesium pemoline: Enchancement of memory after electroconvul sive schock in rats.
Life Sci. 5(16): 1495-8, '66

825. Rajam, P.C. & Bogoch, S.
Antigenic constituents of human cortical grey matter.
Nature 211(5054): 1200-1, '66

826. Rajam, P.C., et al.
Organ specificity of heat-stable antigens from human brain.
Nature 211(5054): 1201-2, '66

827. Roberts, E.
Models for correlative thinking about brain, behavior, and biochemistry.
Brain Res. 2(2): 109-44, '66

828. Rosenberg, E., et al.
Blood gas and neurological responses to inhalation of oxygen at 3 atmospheres.
Proc. Soc. Exp. Biol. Med. 122(2): 313-7, '66

829. Rubin, R.C., et al.
Cerebrospinal fluid perfusion for central nervous system neoplasms.
Neurology 16(7): 680-92, '66

830. Scott, T.G.

Further observations on the enzyme histochemistry of brain biopsies in amaurotic family idiocy.
Proc. 5th Intern. Congr. Neuropathol.: 422-5, '66

831. Shuangshoti, S. & Netsky, M.G.
Neuroepithelial (colloid) cysts of the nervous system: Further observations on pathogenesis, location, incidence, and histochemistry.
Neurology 16(9): 887-903, '66

832. Sjögren, H., et al.
Clinical, histological and chemical studies on presenile and senile neuropsychiatric diseases.
Proc. 5th Intern. Congr. Neuropathol.: 559-9, '66

833. Sjöstrand, J.
Studies on gial cells in the rabbit during nerve regeneration.
Acta Physiol. Scand. 67(Suppl. 270): 3-17, '66

834. Sjostrand, J.
Morphological changes in glial cells during nerve regeneration.
Acta Physiol. Scand. 67(Suppl. 270): 21-43, '66

835. Sluga, E. & Gootz, M.
Histochemische und elektronenoptische Untersuchungen an der spätinfantilen myoklonischen Variante der amaurotischen Idiotie.
Proc. 5th Intern. Congr. Neuropathol.: 407-16, '66

836. Stam, F.C.
Histochemistry of the senile involution of the brain.
Proc. 5th Intern. Congr. Neuropathol. 513-7, '66

837. Steinwall, O. & Klatzo, I.
Use of multiple tracers in the study of the blood-brain barrier and cerebral edema.
Proc. 5th Intern. Congr. Neuropathol. 957-9, '66

838. Tator, C.H., et al.
Tracers for the detection of brain tumors: Evaluation of radioiodinated human aerum albumin and radioiodinated fatty acid.
Neurology 16(7): 650-61, '66

839. Thomas, E.
Histochemie am peripheren Nervensystem.
Proc. 5th Intern. Congr. Neuropathol. 396-404, '66

840. Timiras, P. S. & Woolley, D. E.
Functional and morphologic development of brain and other organs of rats at high altitude.
Federation Proc. 25(4 pt. 1): 1312-20, '66

841. Tochino, Y. & Schanker, L.S.
Serum and tissue factors that inhibit amine transport by the choroid

plexus in vitro.
Am. J. Physiol. 210(6): 1229-33, '66

842. Weil-Malherbe, H.
Heinrich Waelsch
Exp. Brain Res. 2(1): I-III, '66

II. ELECTOLYTES, METALS & INORGANIC CONSTITUENTS (843– 859)

843. Andersson, B., et al.
Stimulation of urinary salt excretion following injections of hypertonic NaCl-solution into the 3rd brain ventricle.
Acta Physiol. Scand. 67(1): 127-8, '66

844. Armstrong, C.
Interference of injected tetra-n-propylammonium bromide with outward sodium ion current in squid giant axons.
Nature 211(5046): 322-3, '66

845. Baker, P. F. & Connelly, C. M.
Some properties of the external activation site of the sodium pump in crab nerve.
J. Physiol. 185(2): 270-97, '66

846. Bito, L. Z., et al.
Factors affecting the distribution of iodide and bromide in the central nervous system.
J. Physiol. 185(2): 323-54, '66

847. Cerf, J.A. & Koketsu, K.
Interaction of cold and calcium lack on the electrical response of a neurone soma.
Life Sci. 5(13): 1179-86, '66

848. Chiarandini, D.J. & Zadunaisky, J.A.
Exchange of sodium in the isolated brain of the frog.
Exp. Neurol. 15(3): 319-28, '66

849. Dawson, G. D. & Holmes, O.
Cobalt applied to the sensorimotor area of the cortex cerebri of the art.
J. Physiol. 185(2): 455-70, '66

850. Elmqvist, D. & Feldman, D.S.
Influence of ionic environment on acetylcholine release from the motor nerve terminals.
Acta Physiol. Scand. 67(1): 34-42, '66

851. Erway, L., et al.
Neurological defect: Manganese in phenocopy and prevention of a genetic abnormality of inner ear.

Science 152(3730): 1766-7, '66

852. Gage, P.W. & Quastel, D.M.J.
Competition between sodium and calcium ions in transmitter release at mammalian neuromuscular junctions.
J. Physiol. 185(1): 95-123, '66

853. Israel, Y., et al.
Effects of lower alchols on potassium transport and microsomal adenosinetriphosphatase activity of rat cerebral cortex.
Biochem. J. 100(1): 27-33, '66

854. Klingman, J.D.
Ionic influences on rat superior cervical ganglion phospholipid metabolism.
Life Sci. 5(15): 1397-407, '66

855. Pontèn, U. & Siesjö, B.K.
Gradients of CO_2 tension in the brain.
Acta Physiol. Scand. 67(2): 129-40, '66

856. Rahill, W.J. & Winters, R.W.
Normal acid-base composition of cerebrospinal fluid in infants and children.
Proc. Soc. Exp. Biol. Med. 122(3): 935-9, '66

857. Sams, C.F., et al.
Patassium, sodium ion estimates in a closed in vivo system using glass electrodes.
Brain Res. 2(1): 85-95, '66

858. Schiffer, D., et al.
Recherches histochemiques sur la structure des calcifications dans le tissue nerveux.
Proc. 5th Intern. Congr. Neuropathol. 812-4, '66

859. Swanson, P.D. & Ullis, K.
Ouabain-induced changes in sodium and potassium content and respiration of cerebral cortex slices: dependence on medium calcium concentration and effects of protamine.
J. Pharmacol. Exp. Therap. 153(2): 321-8, '66

III. CARBOHYDRATES & RELATED COMPOUNDS (860 – 873)

860. Bachelard, H.S. & Lindsay, J.R.
Effects of neurotropic drugs on glucose metabolism in rat brain in vivo.
Biochem. Pharmacol. 15(8): 1053-8, '66

861. Bachelard, H.S., et al.
The effect of psychotropic drugs on the utilization of glucose carbon

atoms in the brain, heart and liver of the rat.
Biochem. Pharmacol. 15(8): 1039-43, '66

862. Gilbert, J.C.
Pentose uptake by the non-raffinose compartment of cerebral cortex slices.
J. Neurochem. 13(8): 729-41, '66

863. Gonda, O. & Quastel, J.H.
Transport and metabolism of acetate in rat brain cortex in vitro.
Biochem. J. 100(1): 83-94, '66

864. Hiatt, N., et al.
Oxytetracycline and hypoglycemia with convulsions in pancreatectomized dogs.
Proc. Soc. Exp. Biol. Med. 122(2): 489-93, '66

865. Lindbohm, R. & Wallgren, H.
Oxidation of acetate by rat cerebral cortex in vitro and the effect of stimulation.
J. Neurochem. 13(7): 573-7, '66

866. Lindsay, J.R. & Bachelard, H.S.
Incorporation of ^{14}C from glucose into α-keto acids and amino acids in rat brain and liver in vivo.
Biochem. Pharmacol. 15(8): 1045-52, '66

867. McIlwain, H.
Stimulation of mamalian cerebral cortex in vitro from the lateral olfactory tract: metabolic changes associated with evoked potentials.
J. Physiol. 185(2): 65P-66P, '66

868. Miquel, J. & Haymaker, W.
Glycogen accumulation in monkey and cat brain exposed to proton radiation.
Proc. 5th Intern. Congr. Neuropathol. 792-7, '66

869. Phizackerley, P.J.R. & Fixter, L.M.
Anoxic impairment of respiration of slices of rat-brain cortex.
Biochem. J. 100(2): 37p., '66

870. Praag, H.M. van, & Leijinse, B.
Some aspects of the metabolism of glucose and of the non-esterified fatty acids in depressive patients.
Psychopharmacologia 9(3): 220-33, '66

871. Sloviter, H.A., et al.
Glycerol as a substrate for brain metabolism.
Nature 210(5043): 1334-6, '66

872. Sotelo, C.

Aspects histoenzymotogiques du metabolisme des glucides au niveau de la nevroglie chez l'enfant.
Proc. 5th Intern. Congr. Neuropathol. 450-4, '66

873. Watson, W.E.
Some quantitative observations upon the oxidation of substrates of the tricarboxylic acid cycle by injured neurones.
J. Physiol. 185(1): 35p. '66

IV. AMINO ACIDS, PEPTIDES & RELATED COMPOUNDS (874– 894)

874. Agrawal, H.C., et al.
Postnatal changes in free amino acid pool of rat brain.
J. Neurochem. 13(7): 607-15, '66

875. Auditore, J.V., et al.
Isolation, purification, and probable structural configuration of N-acetyl aspartyl glutamate in human brain.
Arch. Biochem. Biophys. 114(3): 452-8, '66

876. Baldessarini, R.J. & Kopin, I.J.
S-adenosylmethionine in brain and other tissues.
J. Neurochem. 13(8): 769-77, '66

877. Bohus, B. & de Wied, D.
Inhibitory and facilitatory effect of two related peptides on extinction of avoidance behavior.
Science 153(3733): 318-20, '66

878. Cittadini, D., et al.
Carbamylaspartate, a new agent against acute ammonia intoxication.
Biochem. Pharmacol. 15(7): 992-4, '66

879. Clara, R. & Lowenthal, A.
Familial and congenital lysine-cystinuria with benign myopathy and dwarfism.
J. Neurol. Sci. 3(4): 433-4, '66

880. Gal, E.M., et al.
The nature of in vitro hydroxylation of L-tryptophan by brain tissue.
J. Neurochem. 13(8): 643-54, '66

881. Jurgelsky, W. Jr. & Thomas, J. A.
The in vivo protection by γ-aminobutyric acid against organic phosphate inhibition of AChE.
Life Sci. 5(16): 1525-34, '66

882. Levin, E., et al.
Ventriculo-cisternal perfusion of amino acids in cat brain. I Rates of disappearence from the perfusate.
J. Neurochem. 13(8): 761-7, '66

883. Mandel, P. & Ledig, M.
Amidated phosphopeptides in nervous tissue.
Biochem. Biophys. Res. Commun. 24(3): 275-9, '66

884. Minard, F.N. & Mushahwar, I.K.
Synthesis of γ-aminobutyric acid from a pool of glutamic acid in brain after decapitation.
Life Sci. 5(15): 1409-13, '66

885. Moscona, A.A.& Piddington, R.
Stimulation by hydrocortisone of premature changes in the developmental pattern of glutamine synthetase in embryonic retina.
(BBA 23235)
Biochim. Biophys. Acta 121(2): 409-11, '66

886. Nishigori, M.
Der Einfluss der γ-Amino-β-Hydroxybuttersäure und l-Amino-Hydroxypropansulfonsäure auf Oxymethylpyrimidin-Krampfe an Mäusen.
Jap. J. Pharmacol. 16(3): 312- , '66

887. Panagiotis, N.M. & Hungerford, G.F.
Response of pineal sympathetic nerve processes and engings to angiotensin.
Nature 211(5047): 374-6, '66

888. Perry, T.L., et al.
The incidence of mental illness in the relatives of indivisuals suffering from phenylketonuria or mongolism.
J. Psychiat, Res. 4(1): 51- , '66

889. Raines, A. & Standaert, F.G.
Pre-and postjunctional effects of diphenylhydantoin at the cat soleus neuromuscular junction.
J. Pharmacol. Exp. Therap. 153(2): 361-6, '66

890. Sano, I., et al.
Identifizierung einiger Glutamylpeptide aus Gehirn. (Identification of glutamylpeptides in brain).
J. Neurochem. 13(8): 711-9, '66

891. Subba Rao, V.V. & Gupta, M.L.
Effect of heat and cold stress on brain glutamine acid.
Federation Proc. 25(4 pt.1): 1185-6, '66

892. Tata, P.S. & Buzalkov, R.
Vasopressin studies in the rat. III. Inability of ethanol anesthesia to prevent ADH secretion due to pain and hemorrhage.
Pfluegers Arch. Ges. Physiol. 290(4): 294-7, '66

893. Tishler, P.V. & Ingbar, S.H.
Studies of thyroid economy in two patients with phenylketonuria.

J. Clin. Endocrinol. Metab. 26(6): 661-5, '66

894. Werman, R., et al.
The inhibitory action of cystathionine.
Life Sci. 5(15): 1431-40, '66

V. PROTEINS (895– 911)

895. Bachelard, H.S.
Amino acid incorporation into the protein of mitochondrial preparations from cerebral cortex and spinal cord.
Biochem, J. 100(1): 131-7, '66

896. Barondes, S.H.
On the site of synthesis of the mitochondrial protein of nerve endings.
J. Neurochem. 13(8): 721-7 '66

897. Bowler, K., & Duncan, C.J.
Actomyosin-like protein from crayfish nerve: a possible molecular explanation of permeability changes during excitation.
Nature 211(5049): 642-3 '66

898. Caspary, E.A. & Sinden, R.E.
Gel-filtration studies of serum in multiple sclerosis, motor neurone disease and normal controls.
Biochem. J. 100(2): 35p. , '66

899. Folbergrova, J.
Incorporation of labelled amino acids into the proteins of brain cortex slices in vitro in the presence of other nonradioactive amino acids.
J. Neurochem. 13(7): 553-62, '66

900. Garcia, J.F. & Geschwind, I.I.
Increase in plasma growth hormone level in the monkey following the administration of sheep hypothalamic extracts.
Nature 211(5047): 372-4, '66

901. Johnson, T.C. & Luttges, M.W.
The effects of maturation on in vitro protein synthesis by mouse brain cells.
J. Neurochem. 13(7): 545-52, '66

902. Kendall, J.W. & Allen C.
Brain-dependent ACTH secretion from multiple hetrotopic pituitaries.
Proc. Soc. Exp. Biol. Med. 122(2): 335-7, '66

903. Kies, M.W.
Physico-chemical studies on the encephalitogenic protein from guinea pig brain.
Proceedings to the fifth international congress of neuropathology 257-8 '66

904. Lajtha, A.
Proteins of the nervous system. (conference report)
Brain Res. 2(1): 103-6, '66

905. Metzger, H.P., et al.
Visual stimulation: Lack of effect on protein synthesis in monkey brain.
Life Sci. 5(12): 1115-20, '66

906. Murthy, M.R.V.
Protein synthesis in growing rat tissues. I. Effect of various metabolites and inhibitors of phenylalanine incorporation by brain and liver ribosomes. (BBA 95369)
Biochim. Biophys. Acta 119(3): 586-98, '66

907 Murthy, M.R.V.
Protein synthesis in growing-rat tissues. II. Polyribosome concentration of brain and liber as a function of age. (BBA 95370)
Biochim. Biophys. Acta 119(3): 599-613, '66

908. Peterson, R.P.
Cell size and rate of protein synthesis in ventral horn neurones.
Science 153(3742): 1413-4, '66

909. Schally, A.V., et al.
Purification of growth hormone-releasing factor from beef hypothalamus.
Proc. Soc. Exp. Biol. Med. 122(3): 821-3, '66

910. Shapira, J., et al.
Incorporation of protein and nucleic acid precursors into from nervous tissue in vitro.
Proc. Soc. Exp. Biol. Med. 122(3): 637-40, '66

911. Taleisnik, S., et al.
Topographic distribution of the melanocyte-stimulating hormone-releasing factor in rat hypothalamus.
Proc. Soc. Exp. Biol. Med. 122(2): 325-8, '66

VI. NUCLEIC ACIDS & RELATED COMPOUNDS (912– 923)

912. Clouet, D.H., et al.
(^{14}C) leucine incorporation into brain ribosomes. (BBA 95424)
123(1): 142-50, '66

913. du Buy, H.G., et al.
Comparison of the deoxyribonucleic acids obtained from brain nuclei and mitochondria of mice and from the nuclei and kinetoplasts of Leishmania enriettii. (BBA 95425)
Biochim. Biophys. Acta 123(2): 298-305, '66

914. Egyhazi, E. & Hydén, H.
RNA with high specific activity in neurons and glia.
Brain Res. 2(2): 197-200, '66

915. Egyházi, E. & Hydén, H.
Biosynthesis of rapidly labeled RNA in brain cells.
Life Sci. 5(13): 1215-23, '66

916. Jacob, M., et al.
Rapidly-labelled ribonucleic acids in brain.
J. Neurochem. 13(8): 619-28, '66

917. Jarlstedt, J.
Functional localization in the cerebellar cortex studied by quantitative determinations of Purkinje cell RNA. I. RNA changes in rat cerebellar Purkinje cells after proprio- and exteroceptive and vestibular stimulation.
Acta Physiol. Scand. 67(2): 243-52, '66

918. Lapham, L. W.
The tetraploid DNA content of normal human Purkinje cells and its development during the perinatal period: a quantitative cytochemical study.
Proc. 5th. Intern. Congr. Neuropathol. 445-9, '66

919. Mandel, P. & Edel-Harth, S.
Free nucleotides in the rat brain during post-natal development.
J. Neurochem. 13(7): 591-5, '66

920. Miani, N., et al.
Sedimentation characteristics of axonial RNA in rabbit.
J. Neurochem. 13(8): 755-9, '66

921 Ringborg, U.
Composition and content of RNA in neurons of rat Hippocampus at different ages.
Brain Res. 2(3): 296-8, '66

922. Toschi, G., et al.
Characteristics of labelled. RNA from spinal ganglia of chick embryo and the action of a specific growth factor. (NGF)
J. Neurochem. 13(7): 539-44, '66

923. Zemp, J. W., et al.
Brain function and macromolecules, I. Incorporation of uridine into RNA of mouse brain during short-term training experience.
Proc. Nat. Acad. Sci. U.S.A. 55(6): 1423-31, '66

Ⅶ. LIPIDS, STEROIDS & RELATED COMPOUNDS (924– 964)

924. Abdel-Latif, A.A.
Acetylcholine and the incorporation of (^{32}P) phosphate into phospholipids and phosphoproteins of nerve endings of developing rat brain.
Nature 211(5048): 530-1, '66

925. Adams, C.W.M.
The application of neurochemistry and histochemistry to neuropathology — with particular reference to localization of lipids in the nervous system.
Proc. 5th. Intern. Congr. Neuropathol. 328-41, '66

926. Aleu, F.P., et al.
Ultrastructural and biochemical observations of three cerebral biopsies in gargoylism.
Proceedings of the fifth international congress of neuronathology 149-52, '66

927. Barnholz, Y., et al.
Enzymatic hydrolysis of sphingolipids. II. Hydrolysis of sphingomyelin by an enzyme from rat brain.
J. Biol. Chem. 241(16): 3731-7, '66

928. Beani, L., et al.
Reversal by 3,4-dihydroxyphenylalanine of reserpine-induced regional changes in acetylcholine content in guinea-pig brain.
Biochem. Pharmacol. 15(7): 779-84, '66

929. Bowers, M.B.Jr., et al.
Sleep deprivation and brain acetylcholine.
Science 153(3742): 1416-7, '66

930. Cherayil, G.D. & Cyrus, A.E. Jr.
The quantitative estimation of glycolipids in Alzheimer's disease.
J. Neurochem. 13(7): 579-90, '66

931. Collier, B. & Mitchell, J.F.
The nervous pathways associated with acetylcholine release from the visual cortex.
J. Physiol. 185(1): 22p.-23p., '66

932. Curtis, D.R. & Ryall, R.W.
The excitation of Renshaw cells by cholinomimetics.
Exp. Brain Res. 2(1): 49-65, '66

933. Curtis, D.R. & Ryall, R.W.
The acetylcholine receptors of Renshaw cells.
Exp. Brain Res. 2(1): 66-80, '66

934. Curtis, D.R., et al.
The action cholinomimetics on spinal interneurons.
Exp. Brain Res. 2(1): 97-106, '66

935. Edgar, G.W.F.
Anatomo-chemical research in demyelinating conditions and inborn errors of metabolism.
Proc. 5th. Intern. Congr. Neuropathol. 350-63, '66

936. Fore, W., et al.
Rapid redistribution of serum thyroxin during ether anesthesia.
J. Clin. Endocrinol, Metab. 26(8): 821- , '66

937. Fumagalli, R., et al.
Sterol composition of human and animal spontaneous and experimental brain tumors.
Proc. 5th. Intern. Congr. Neuropathol. 455-8, '66

938. Gatt, S.
Enzymatic hydrolysis of sphingolipids. I. Hydrolysis and synthesis of ceramides by an enzyme from rat brain.
J. Biol. Chem. 241(16): 3724-30, '66

939. Harkin, J.C.
Localization of the cellular site of collagen synthesis in peripheral nerves by electron microscopic autoradiography using H^3-proline.
Proc. 5th. Intern. Congr. Neuropathol. 861-3, '66

940. Hayashi, K.
Studies on brain phospholipids. IV. Post-mortem breakdown of phosphoinositides and phosphatidic acid, and P^{32}-incorporation into phospholipids in various states of the tissue.
J. Biochem. (Tokyo) 60(1): 42-51, '66

941. Hooghwinkel, G.J.M. & Bruyn, G.W.
Congenital lack of serum β-lipoproteins. A study of blood phospholipids in a patient and his family.
J. Neurol. Sci. 3(4): 374-81, '66

942. Hooghwinkel, G.J.M., et al.
Biochemical studies in Huntigton's chorea: V. Erythrocyte and plasma glycolipids and fatty acid composition of erythrocyte gangliosides.
Neurology 16(9): 934-6, 8, '66

943. Horton, E.W. & Main, I.H.M.
The identification of prostaglandins in central nervous tissues of the cat and the fowl.
J. Physiol. 185(1): 36p. - 37p. '66

944. Koenig, H.

Histochemical studies of lysosomes and lipofuscin granules in the nervous system.
Proc. 5th. Intern. Congr. Neuropathol. 476-7, '66

945. Landolt, R., et al.
The correlation of gangliosides, cerebrosides, proteins and nucleic acids of human brain with the microscopic neuroanatomy.
Proc. 5th Intern. Congr. Neuropathol. 441-4, '66

946. Lederis, K. & Livingston, A.
Acetylcholine content in the rabbit neurohypophysis.
J. Physiol. 185(1): 37p. - 38p., '66

947. Lieberman, M., et al.
Effect of concomitant treatment by cortisone and N-ethylisatin β-thiosemicarbazone on neurovaccinia virus infected mice.
Proc. Soc. Exp. Biol. Med. 122(2): 484-9, '66

948. Malhotra, C.L. & Mehta, V.L.
The effect of meprobamate on the acetylcholine content of certain areas of dog brain.
Brit. J. Pharmacol. 27(2): 440-2, '66

949. Mandel, P. & Nussbaum, J.L.
Incorporation of ^{32}P into the phosphatides of myelin sheats and of intracellular membranes.
J. Neurochem. 13(8): 629-42, '66

950. Matsumoto, K., et al.
Excretion of 17-hydroxy-corticosteroids and 17-ketosteroids in relation to schizophrenic symptoms.
J. Psychiat. Res. 4(1): 1- , '66

951. McCaman, R.E. & Cook, K.
Intermediary metabolism of phospholipids in brain tissue. III. Phosphocholine-glyceride transferase.
J. Biol. Chem. 241(14): 3390-4, '66

952. McCarty, L.P. & Chenoweth, M.B.
Cholinergic mechanism of depressor response to small doses of adrenaline.
Nature 211(5050): 750-1, '66

953. Menkes, J.H., et al.
Concentration and fatty acid composition of cerebrosides and sulfatides in mature and immature human brain.
J. Lipid Res. 7(4): 479-86, '66

954. Michalec, Č. & Reinšová, J.
Biochemistry of sphingolipids IX. Chromatographic determination of sulfatides after conversion into cerebrosides.
Brain Res. 2(3): 293-6, '66

955. Palka, Y.S. & Sawyer, C.H.
Induction of estrous behavior in rabbits by hypothalamic implants of testosterone.
Am. J. Physiol. 211(1): 225-8, '66

956. Polak, R.L. & Meeuws, M.M.
The influence of atropine on the release and uptake of actylcholine by the isolated cerebral cortex of the rat.
Biochem. Pharmacol. 15(7): 989-92, '66

957. Riker, W.F. Jr.
Actions of acetylcholine on mammalian motor nerve terminal.
J. Pharmacol. Exp. Therap. 152(3): 397-416, '66

958. Rubin, R.T., et al.
Corticosteroid responses to limbic stimulation in man: Localization of stimulus sites.
Science 153(3737): 767-8, '66

959. Sheltawy, A. & Dawson, R.M.C.
The polyphosphoinositides and other lipids of peripheral nerves.
Biochem. J. 100(1): 12-8, '66

960. Svennerholm, L. & Sourander, P.
Combined histological and chemical investigations on brain autopsy material in lipidoses.
Proc. 5th. Intern. Congr. Neuropathol. 342-9, '66

961. Terry, R.D.
The correlation of chemical and electron microscopic findings in the lypidoses.
Proc. 5th. Intern. Congr. Neuropathol. 376-81, '66

962. Wiegandt, H.
Ganglioside.
Erge. Physiol. Biol. Chem. Exp. Pharmakol. 57: 190- , '66

963. Wolman, M.
Histochemistry of the lipidoses.
Proceedings of the fifth international congress of neuropathology 116-24, '66

964. Zsoter, T. et al.
Adrenergic beta receptors and plasma free fatty acids.
J. Pharmacol. Exp. Therap. 152(3): 425-31, '66

VII. BIOGENIC AMINES (965-1014)

965. Aghajanian, G.K. & Bloom, F.E.
Electron-Microscopic autoradiography of rat hypothalamus after intraventricular H^3-norepinephrine.

Science 153(3733): 308-10, '66

966. Aghajanian, G.K., et al.
The uptake of 5-hydroxytryptamine-^{3}H from the cerebral ventricles: autoradiographic localization.
Biochem. Pharmacol. 15(9): 1401-3, '66

967. Alleva, J.J., et al.
Effect of tranylcypromine and iproniazid on brain amine levels and ovulation in golden hamster.
Life. Sci. 5(17): 1557-61, '66

968. Anderson, E. G. & Shibuya, T.
The effects of 5-hydroxytryptophan and L-tryptophan on spinal synaptic activity.
J. Pharmacol. Exp. Therap. 153(2): 352-60, '66

969. Bergman, R.K. & Munoz, J.
Protection against histamine shock by catecholamines in bordetella pertussistreated, adrenalectomized, or adrenergic blocked mice.
Proc. Soc. Exp. Biol. Med. 122(2) : 428-33 '66

970. Bliss, E.L., et al.
Changes in brain norepinephrine in self-stimulating and 'aversive' animals.
J. Psychiat. Res. 4(1): 59- '66

971. Bogdanski, D.F. & Brodie, B.B.
Role of sodium and potasium ions in storage of norepinephrine by sympathetic nerve endings.
Life. Sci. 5(7): 1563-9, '66

972. Boullin, D.J., et al.
Apparent depletion of NE stores after repetitive stimulation of cat colon in presence of phenoxybenzamine.
Intern. J. Neuropharmacol. 5(4): 293-8 '66

973. Bowman, W.C. & Raper, C.
Effects of sympathomimetic amines on neuromuscular transmission.
Brit. J. Pharmacol. 27(2): 313-31 '66

974. Bulat, M. & Supek, Z.
Fate of intracisternally injected 5-hydroxytryptamine in the rat brain.
Nature. 211(5049): 637-8, '66

975. Cantu, R.C., et al.
Effect of hypercapnic acidosis and of hypoxia on adrenal catecholamine output of the spinal dog.
Proc. Soc. Exp. Biol. Med. 122(2): 434-7, '66

976. Caspersson, T., et al.
Fluorescence microspectrophotometry of cellular catecholamines and 5-hydroxytryptamine.
Exp. Cell. Res. 42(3): 415-28, '66

977. Chessick, R.D., et al.
A comparison of the effect of infused catecholamines and certain affect states.
Am. J. Psychiat. 123(2): 156-65, '66

978. Dominic, C.J.
Reserpine: Inhibition of olfactory blockage of pregnancy in mice.
Science. 152(3730): 1764-5 '66

979. Duritz, G. & Truitt, E.B. Jr.
Importance of acetaldehyde in the action of ethanol on brain norepinephrine and 5-hydroxytryptamine.
Biochem. Pharmacol. 15(6): 711-21, '66

980. Engberg, I. & Ryall, R. W.
The inhibitory action of noradrenaline and other monoamines on spinal neurones.
J. Physiol. 185-(2): 298-322, '66

981 Feldberg, W. & Myers, R.D.
Apperance of 5-hydroxytryptomine and an unidentified pharmacologically active lipid acid in effluent from perfused cerebral ventricles.
J. Physiol. 184(4): 837-55, '66

982 Ferry, C.B.
Cholinergic link hypothesis in adrenergic neuroeffector transmission.
Physiol. Rev. 46(3): 420 '66

983 Glowinski, J. & Iversen, L.
Regional studies of catecholamines in the rat brain. III. Subcellular distribution of endogenous and exogenous catecholamines in various brain regions.
Biochem. Pharmacol. 15(7): 977-87, '66

984 Glowinski, J. & Iversen, L.L.
Regional studies of catecholamines in the rat brain. I. The disposition of (^{3}H) norepinephrine, (^{3}H) dopamine and (^{3}H) dopa in various regions of the brain.
J. Neurochem. 13(8): 655-69, '66

985 Glownski, J., et al.
Regional studies of catecholamines in the rat brain. IV. Effects of drugs on the disposition and metabolism of H^3 -nore-pinephrine and H^3-dopamine.
J. Pharmacol. Exp. Therap. 153(1): 30-41, '66

986 Goldstein, M. & Nakajima, K.
The effects of disulfiram on the repletion of brain catecholamine stores.
Life Sci. 5(12): 1133-8, '66

987 Guldbeerg, H. C., et al.
Concentrations of 5-hydroxyindolylacetic and homovanillic acid in the cerebrospinal fluid of the dog before and during treatment with probenecid.
Life Sci. 5(17): 1571-5, '66

988 Hikosaka, H.
The effects of stellate ganlionectomy on the distribuation, uptake and storage of noradrenaline in the dog heart.
Jap. J. Pharmacol. 16(2): 157 '66

989. Hilliard, W.G., et al.
The influence of sympathomimetic amines, monoamine oxidase inhibitors, and antihypertensives upon the energy metabolism in the rat heart.
Can. J. Physiol. Pharmacol. 44(4): 605-13, '66

990. Hornykiewicz, O.
Dopamine (3-hydroxytyramine) and brain function.
Pharmacol. Rev. 18(2): 925-64, '66

991. Iversen, L. L. & Glowinski, J.
Regional studies of catecholamines in the rat brain. II. Rate of turnover of catecholamines in various brain regions.
J. Neurochem. 13(8): 671-82, '66

992. Johnson, J. & Milner, G.
Amphetamine intoxication and dependence in admissions to a psychiatric unit.
Brit. J. Psyciat. 112(487): 617-9, '66

993. Kuehl, F.A., Jr., et al.
Occurence of 3, 4-dimethoxyphenylacetic acid urines of normal and schizophrenic individuals.
Nature. 211(5049): 606-8, '66

994. Levy, B.
Dimethyl isopropylmethoxamine: a selective β-receptor blocking agent.
Brit. J. Pharmacol. 27(2): 277-85, '66

995. Malhotra, C. L. & Mehta, V. L.
The effect of rserpine on the acetylcholine release of the cerebral cortex of dog under different anaesthetics.
Brit. J. Pharmacol. 27(1): 131-4, '66

996. Michel, R., et al.
Syntheses de activités biologique de certains dérives thyroxiniens et adrénergiques. VII. Influence de divers dérives phénoliques iodes sur la monoamine oxydase hépatique de cobaye et sur la monoamine oxydase cérébrale de rat.
Biochem. Pharmacol. 15(8): 1127-38 '66

997. Mukherji, M., et al.
Histochemical identification of noradrenaline in fluorescence microscopy by borohydride-periodic acid sequence.
J. Histochem. Cytochem. 14(6): 479-82, '66

998. Nielson, H. C.
Effect of frontal pole ablation on biogenic amine levels in the brain.
Exp. Neurol. 15(4): 484-9, '66

999. Ordy, J.M., et al.
Concurrent changes in hypothalamic and cardiac catecholamine levels after anesthetics, tranquilizers and stress in a subhuman primate.
J. Pharmacol. Exp. Therap. 152(3): 445-57, '66

1000. Ozaki, M.
Metabolism of monoamines in spontaneously hypertensive rat.
Jap. J. Pharmacol. 16(3): 257- '66

1001. Palaic, Dj. & Supek, Z.
Liberation of brain 5-hydroxytryptamine and noradrenaline by X-ray treatment in the new-born and adult rat.
J. Neurochem. 13(8): 705-9, '66

1002. Randrup, A. & Munkvad, I.
Role of catecholamines in the amphetamine excitatory response.
Nature. 211(5048): 540, '66

1003. Roberts, G. C. K.
The formation of complexes between 5-hydrotryptamine, adenosine triphosphate and bivalent cations in vitro.
Biochem. J. 100(2): 30P. '66

1004. Rocha E Silva, M. Jr. & Sproull, D. H.
An excitatory action of adrenaline, noradrenaline, and 5-hydroxytryptamine on the spinal cord.
J. Physiol. 185(2): 445-54, '66

1005. Roth, R.H., et al.
Acceleration of noradrenaline biosynthesis by nerve stimulation.
Life Sci. 5(12): 1071-5 '66

1006. Schildkraut, J.J., et al.

The effect of lithium ion on H^3-norepinephrine metabolism in brain.
Life Sci. 5(16): 1479-83, '66

1007. Shore, P.A. & Giachetti, A.
Dual actions of guanethidine on amine uptake mechanisms in adrenergic neurons.
Biochem. Pharmacol. 15(7): 899-903, '66

1008. Snyder, S.H. et al.
The physiologic disposition of H^3-histamine in the rat brain.
J. Pharmacol. Exp. Therap. 153(1): 8-14 '66

1009. Stjärne, L. & Lishajko, F.
Drug-induced inhibition of noradrenaline synthesis in vitro in bovine splenic nerve tissue.
Brit. J. Pharmacol. 27(2): 398-404, '66

1010. Tissari, A.
5-Hydroxytryptamine, 5-hydroxytryptophan decarbcxylase and monoamine oxidase during foetal and postnatal development in the guinea-pig.
Acta Physiol. Scand. 67(Supple)265: 1-80, '66

1011. Tozer, T. N., et al.
Application of steady state kinetics to the synthesis rate and turnover time of serotonin in the brain of normal and reserpine-treated rats.
J. Pharmacol. Exp. Therap. 153(2): 177-82, '66

1012. Wolley, D. W. & Gommi, B. W.
Synergist for serotonin present in schizophrenic blood.
Proc. Nat. Acad. Sci. U.S.A. 56(1): 191-7, '66

1013. Yamamoto, I., et al.
The contents of DOPA and catecholamines in several rat tissues and nicotine-induced convulsions.
Jap. J. Pharmacol. 16(3): 295- , '66

1014. Young, M.S., et al.
Studies of the chemical nature of the α-adrenergic receptor.
Biochem. Pharmacol. 15(8): 1185-95, '66

IX. NEURO-& PSYCHOTROPIC DRUGS (1015-1109)

1015. Avanzino, G. L., et al.
Actions of prostaglandins E_1, E_2, and $F_{2\alpha}$ on brain stem neurones.
Brit. J. Pharmacol. 27(1): 157-63, '66

1016. Avanzino, et al.
A comparison of the actions of ergothioneine and chlorpromazine applied to single neurones by two different methods.
Intern. J. Neuropharmacol. 5(4): 331-3, '66

1017. Beani, L., et al.
The effect of 2, 4-dinitrophenol on neuromuscular transmission.
Brit. J. Pharmacol. 27(2): 299-312, '66

1018. Bentley, G.A.
The effect of local anaesthetic and a. tiadrenaline drugs on the re sponse of sympathetically innervat. ' smooth muscle preparations to stimulation at different
Brit. J. Pharmacol. 27(1): 64-80, '66

1019. Bird, C.A.K., et al.
Tegretol (carbamazepine): A controlled trial of a new anti-convulsant.
Brit. J. Psychiat. 112(488): 737-42, '66

1020. Bivens, L.W. & Ray, O.S.
Drug alteration of autonomic function and electroconvulsive schock mortality in rats.
Am. J. Physiol. 210(6): 1309-12, '66

1021. Blaustein, M. P. & Goldman, D. E.
Action of anionic and cationic nerveblocking agents: experiment and interpretation.
Science 153(3734): 429-32, '66

1022. Borbély, A. & Waser, P. G.
Das Fressverhalten der Ratte. Häufigkeit und Gewicht der Mahlzeiten unter dem Einfluss von Amphetamin.
Psychopharmacologia 9(5): 373-81, '66

1023. Bovet, D., et al.
Effect of post trial administration drugs on avoidance learning of mice.
Life Sci. 5(14): 1309-15, '66

1024. Brooke, M.H. & Engel, W.K.
Nitro blue tetrazolium: Selective binding within striated muscle fibers.
Neurology 16(8): 799-806, '66

1025. Cabrera, R., et al.
The action of acetyl choline and other drugs upon the terminal parts of the postaganglionic sympathetic fibre.
Brit. J. Pharmacol. 27(1): 51-63, '66

1026. Cazzullo, C.L., et al.
Correlations between chemical structures of psychotropic drugs and histological features experimentally induced in the central nervous system.
Proc. 5th Intern. Congr. Neuropathol. 842-53, '66

1027. Condouris, G.A. & Lagomarsino, W.E.
Adrenalectomy in rats and its influence on local anesthesia of peripheral nerves.
J. Pharmacol. Exp. Therap. 152(3): 417-24, '66

1028. Connor, J.D., et al.
Analysis of the tremor induced by injection of cholinergic agents into caudate nuclens.
Intern. J. Neurophamacol. 5(3): 207-16, '66

1029. Dahlbom, R., et al.
Synthesis and pharmacology of N-(4-diethylamino-2-butynyl)-succinimide (DKJ 21)
A new central anticholinergic agent.
Life Sci. 5(17): 1625-31, '66

1030. DaVanzo, J.P., et al.
Pharmacological and biochemical studies in isolation-induced fighting Mice.
Psychopharmacologia 9(3): 210-9, '66

1031. Dearnaley, D.P. & Geffeu, L.B.
The effect of phenoxybenzamine on the depletion by nerve stimulation of the noradrenaline of the cat's spleen.
J. Physiol. 184(3): 75P-77P, '66

1032. DeMyer, W.
Production of major cerebral malformations by drugs with special reference to the holoprosencephalies. (cyclopia-arhinencephaly)
Proc. 5th Intern. Congr. Neuropathol. 717-21, '66

1033. Diamantis, W. & Kletzkin, M.
Evaluation of muscle relaxant drugs by head-drop and by decerebrate rigidity.
Intern. J. Neuropharmacol. 5(4): 305-10, '66

1034. Djahanguiri, B., et al.
Behavioural effects of a prolonged treatment with small doses of morphine in cats.
Psychopharmacologia 9(5): 363-72, '66

1035. Domer, F.R. & Trivedi, C.P.
Effect of topical drug application to the spinal cord on the scratching movements in cats.
Brit. J. Pharmacol. 27(2): 405-14, '66

1036. Doty, B.A. & Doty, L.A.
Facilitative effects amphetamine on avoidance conditioning in relation

to age and problem difficulty.
Psychopharmacologia 9(3): 234-41, '66

1037. DuCharme, D. W. & Beck, L.
Regional inhibition of sympathetic tone during shivering and induced muscle contraction.
Intern. J. Neuropharmacol. 5(4): 271-9, '66

1038. Eggert, D. C. & Shagass, C.
Clinical prediction of insightful response to a single large dose of LSD.
Psychopharmacologia 9(4): 340-6, '66

1039. Ekdawi, M. Y. & Fowke, R.
A controlled trial of anti-Parkinson drugs in drug-induced parkinsonism.
Brit. J. Psychiat. 112(487): 633-6, '66

1040. Essman, W. B.
Effect of tricyanoaminopropene on the amnesic effect of electroconvulsive shock.
Psychopharmacologia 9(5): 426-33, '66

1041. Farmer, J. B., et al.
Facilitation of ganglionic transmission by some adrenergic neurone blocking drugs.
Intern. J. Neuropharmacol. 5(3): 241-6, '66

1042. Fehling, C.
Treatment of Parkinson's syndrome with L-DOPA, a double blind study.
Acta Neurol. Scand. 42(3): 367-72, '66

1043. Friedman, A. S., et al.
Imipramine (Tofranil) vs. placebo in hospitalized psychotic depressives (a comparison of patients' self-ratings, psychiatrists' rating and psychological test scores.)
J. Psychiat. Res. 4(1): 13- , '66

1044. Galambos, E. & Pfeifer, A. K.
Anticonvulsant properties of diacetylmonoxine (DAM) and its effect on the facilitatory action of reserpine on convulsions.
Psychopharmacologia 9(3): 248-52, '66

1045. Gallant, D. M., et al.
A preliminary evaluation of P-4657B: A thioxanthene derivative.
Am. J. Psychiat. 123(3): 345-6, '66

1046. Green, A. F. & Hughes, R.
Effects of adrenergic neurone blocking agents on voluntary muscle stimulated at different frequencies.

Brit. J. Pharmacol. 27(1): 164-76, '66

1047. Greenberg, L.M. & Roth, S.
Differential effects of abrupt verus gradual withdrawal of chlorpromazine in hospitalized chronic schizophrenic patients.
Am. J. Psychiat. 123(2): 221-6, '66

1048. Guiti, N., et al.
Analyse quantitative d'électroencéphalogrammes répétés chez le chien soumis à l'effect du diéthy lysergamide (LSD25).
Electroencephalog. Clin. Neurophysiol. 21(1): 80-4, '66

1049. Hall, G. H. & Reit, E.
Analysis of some central actions of nicotine injected into the cere bral ventricles of cats.
J. Physiol. 185(2): 400-17, '66

1050. Hanlon, T.E., et al.
Perphenazine-benztropine mesylate treatment of newly admitted psychiatric patients.
Psychopharmacologia 9(4): 328-39, '66

1051. Haranath, P.S.R.K., et al.
Passage of intravenously infused atropine into perfused cerebral ventricles and subarachnoid space.
Brit. J. Pharm. 27(1): 10-6, '66

1052. Hartmann, E.
Reserpine: its effect on the sleepdream cycle in man.
Psychopharmacologia 9(3): 242-7, '66

1053. Hernández-Peón, R. & Rojas-Ramírez, J.A.
Central mechanisms of tranquilizing, anticonvulsant and relaxant actions of RO-4-5360.
Intern. J. Neuropharmacol. 5(3): 263-7, '66

1054. Ho, A.K.S., et al.
Action tricyclic anti-depressant drugs on central processes involving acetylcholine.
Biochem. Pharmacol. 15(7): 817-24, '66

1055. Hofmann, W. W., et al.
Effects of temperature and drugs on mammalian motor nerve terminals.
Am. J. Physiol. 211(1): 135-40, '66

1056. Holland, H. C. & Gupta, B. D.
The effects of different doses of methylpentynol on escape/avoidance conditioning in two strains of rats selectively bred for high and low 'emotionality'.
Psychopharmacologia 9(5): 419-25, '66

1057. Hollister, L.E. & Hall, R.A.
Phenothiazine derivatives and morphologic changes in the liver.
Am. J. Psychiat. 123(2): 211-2, '66

1058. Irwin, S.
Considerations for the pre-clinical evaluation of new psychiatric drugs: A case study with phenothiozine-like tranquilizers.
Psychopharmacolgia 9(4): 259-87, '66

1059. Jewett, R.E. & Norton, S.
Effects of some stimulant and depressant drugs on sleep cycles of cats.
Exp. Neurol. 15(4): 463-74, '66

1060. Kako, K.
The effect of a β adrenergic blocking agent on chemical changes in isoproterenol-induced myocardial necrosis.
Can. J. Physiol. Pharmacol. 44(4): 678-82, '66

1061. Kakunaga, T., et al.
Pharmacologic studies on analgesics. — VII. Significance of the calcium ion in morphine analgesia.
J. Pharmacol. Exp. Therap. 153(1): 134-41, '66

1062. Kalyanpur, S.G. & Ryman, B.E.
Some effects of local anaesthetics on cell metabolism.
Biochem. Pharmacol. 15(6): 691-701, '66

1063. Kao, C.Y.
Tetrodotoxin, saxitoxin and their significance in the study of excitation phenomena.
Pharmacol. Rev. 18(2): 997-1049, '66

1064. Kotsilimbas, D.G., et al.
Evaluation of parenteral 5-FU on experimental brain tumors.
Neurology 16(9): 916-8, '66

1065. Kuhn, R., et al.
Pharmakologische und klinische Eigenschaften eines neuen Butyrophenon-Derivates. (FR 33).
Psychopharmacologia 9(4): 351-62, '66

1066. Kurland, A.A. & Richardson, J.H.
A comparative study of two long acting phenothiazine preparations, fluphenazine-enanthate and fluphenazine-decanoate.
Psychopharmacologia 9(4): 320-7, '66

1067. Lang, W.J., et al.
Classical and physiologic adaptive conditioned responses to anti-cholinergic drugs in conscious dogs.
Intern, J. Neuropharmacol. 5(4): 311-5, '66

1068. Levy, J.V. & Richards, V.
Inotropic and chrontropic effects of a series of β-adrenergic blocking drugs: some structure-activity relationships.
Proc. Soc. Exp. Biol. Med. 122(2): 373-9, '66

1069. Lewis, I.
Trial of diazepam in myotonia: A double-blind, single crossover study.
Neurology 16(8): 831-6, '66

1070. Liu, M.C.
Clinical experience with sulthiame (Ospolot).
Brit. J. Psychiat. 112(487): 621-8, '66

1071. Longo, V.G.
Behavioral and electroencephalographic effects of atropine and related compounds.
Pharmacol. Rev. 18(2): 965-96, '66

1072. Loomis, T.A.
Reversal of a soman-induced effect on neuromuscular function by oximes.
Life Sci. 5(14): 1255-61, '66

1073. Macchitelli, F.J., et al.
Changes in behavior and electrocortical activity in the monkey following administration of 5-hydroxytryptophan (5-HTP).
Psychopharmacologia 9(5): 447-56, '66

1074. Matsuda, Y.
Effects of some centrally acting drugs on food intake of normal and hypothalamus-lesioned rats.
Jap. J. Pharmacol. 16(3): 276- , '66

1075. Matsumura, F. & Hayashi, M.
Dieldrin: Interaction with nerve components of cockroaches.
Science 153(3737): 757-9, '66

1076. Mcdowall, A., et al.
A controlled comparison of diazepam and amylobarbitone in anxiety states.
Brit. J. Psychiat. 112(487): 629-31, '66

1077. Mennear, J.H., et al.
The effects of scopolamine and atropine on the performance of an exercise-avoidance test by dogs.
Psychopharmacologia 9(4): 347-50, '66

1078. Meves, H.
The effect of veratridine on internally perfused giant axons.
Pfluegers Arch. Gen. Physiol. 290(3): 211-7, '66

1079. Misiak, H., et al.
Continuous temporal evaluation of the effect of meprobamate on critical flicker frequency in normal subjects.
Psychopharmacologia 9(5): 457-61, '66

1080. Murad, J.E. & Shore, P.A.
Association between biochemical and behavioral actions of tricyclic anti-depressants.
Intern. J. Neuropharmacol. 5(4): 299-304, '66

1081. Narahashi, T., et al.
Tetrodotoxin does not block excitation from inside the nerve membrane.
Science 153(3737): 765-7, '66

1082. Nelson, J.S., et al.
The effects of pyridinethiol oxide on the central nervous system.
Proc. 5th. Intern. Congr. Neuropathol. 798-801, '66

1083. Ngai, S.H., et al.
Effect of diazepam and other central nervous system depressants on spinal reflexes in cats: A study of site of action.
J. Pharmacol. Exp. Therap. 153(2): 344-51, '66

1084. Oldstone, M.B.A. & Nelson, E.
Central nervous system manifestations of penicillin toxicity in man.
Neurology 16(7): 693-700, '66

1085. Opitz, K. & Akinlaja, A.
Zur Beeinflussung der Nahrungsaufnahme durch Psychopharmaka.
Psychopharmacologia 9(4): 307-19, '66

1086. Pitts, F.N. Jr. & Winokur, G.
Affective disorder, VII: Alcoholism and affective disorder.
J. Psychiat. Res. 4(1): 37-,''66

1087. Rickels, K., et al.
Controlled psychopharmacological research in private psychiatric practice.
Psychopharmacologia 9(4): 288-306, '66

1088. Roth, W.T.
The effect of LSD, mescaline, and d-amphetamine on the evoked "secondary discharge".
Psychopharmacologia 9(3): 253-8, '66

1089. Rudomin, P.
Pharmacological evidence for the existence of interneurons mediating primary afferent depolarization in the solitary tract nucleus of the cat.
Brain Res. 2(2): 181-3, '66

1090. Schlagenhauf, G., et al.
The use of lithium carbonate in the treatment of manic psychoses.
Am. J. Psychiat. 123(2): 201-7, '66

1091. Scholes, N. W.
Pharmacologic definition of neuronal
components generating spontaneous and evoked potentials in the tectum of the chick: Effect of γ-hydroxybutyrate.
J. Pharmacol. Exp. Therap. 153(1): 128-33, '66

1092. Singth, S. D. & Manocha, S. N.
The interaction of drug effects with drive level and habit strength.
Psychopharmacologia 9(3): 205-9, '66

1093. Sinha, J. N., et al.
Further evidence of central muscle relaxant activity of imipramine, desmethylimipramine and amitriptyline.
Jap. J. Pharmacol. 16(3): 250- , '66

1094. Sinha, J. N., et al.
Effect of β-phenylisopropylhydrazine (JB516) on the isolated cerebral cortex.
Electroencephalog. Clin. Neurophysiol. 21(3): 301-3, '66

1095. Smith, C. M. & Abood, L. G.
The action of some CNS and local anesthetic drugs on the stimulated glycolysis of frog sartorius muscle.
Intern. J. Neuropharmacol. 5(3): 255-61, '66

1096. Smith, J. C.
Pharmacollgic interactions with 4-(m-chlorophenylcarbamoyloxy)-2-butynyltrimethylammonium chloride, a sympathetic ganglion stimulant.
J. Pharmacol. Exp. Therap. 153(2): 276-84, '66

1097. Smythies, J. R., et al
Structure-activity relationship studies on mescaline: II. Tolerance and cross-tolerance between mescaline and its analogues in the rat.
Psychopharmacologia 9(5): 434-46, '66

1098. Spooner. C. E. & Winters
Neuropharmacological profile of the young chick.
Intern. J. Neuropharmacol. 5(3): 217-36, '66

1099. Straw, R. N. & Mitchell, C. L.
Effect of phenobarbital on cortical after-discharge and overt seizure patterns in the cat.
Intern. J. Neuropharmacol. 5(4): 323-30, '66

1100. Suwandi, I. S. & Bevan, J. A.
Antagonism of lobeline by ganglion-blocking agents at afferent nerve endings.

J. Pharmacol. Exp. Therap. 153(1): 1-7, '66

1101. Taber, R.I. & Banuazizi, A.
CO_2 -induced retrograde amnesia in a one-trial learning situation.
Psychopharmacologia 9(5): 382-91, '66

1102. Takagi, K. & Takayanagi, I.
Effects of strychnine, derivatives of phenyl acetate and catecholamines on contraction and acetylcholine output from the cholinergic nerve ending of guinea pig.
Jap. J. Pharmacol. 16(2): 211- , '66

1103. Takaori, S., et al.
Central depressants and evoked click responsis with special reference to the reticular formation in the cat.
Jap. J. Pharmacol. 16(3): 264- , '66

1104. Toda, N. & West, T.C.
The influence of ouabain on cholinergic responses in the sinoatrial node.
J. Pharmacol. Exp. Therap. 153(1): 104-13, '66

1105. Torii, S. & Wikler, A.
Effects of atropine on electrical activity of hippocampus and cerebral cortex in cat.
Psychopharmacologia 9(3): 189-204, '66

1106. Uhlenhuth, E.H., et al.
Drug, doctor's verbal attitude and clinic setting in the symptomatic response to pharmacotherapy.
Psychopharmacologia 9(5): 372-418, '66

1107. Uyeno, E.T.
Effects of D-lysergic acid diethylamide and 2-brom-lysergic acid diethylamide on dominance behavior of the rat
Intern. J. Neuropharmacol. 5(4): 317-22, '66

1108. Varagić, V. & Krstić, M.
Effects of analgesics on the hypertensive response to eserine.
Intern. J. Neuropharmacol. 5(3): 237-40, '66

1109. Whitehouse, J.M.
The effects of physostigmine on discrimination learning.
Psychopharmacologia. 9(3): 183-8, '66

X. SUBCELLULAR UNITS (1110–1116)

1110. Abdel-Latif, A.A.
A simple method for isolation of nerve-ending particles from rat brain. (BBA 23225)
Biochim. Biophys. Acta 121(2): 403-6, '66

1111. Bernsohn, J., et al.
Subcellular localization of rat brain esterases.
J. Histochem. Cytochem. 14(6): 455-72, '66

1112. Bondareff, W. & Gordon, B.
Submiscoscopic localization of norepinephrine in sympathetic nerves of rat pineal.
J. Pharmacol. Exp. Therap. 153(1): 42-7, '66

1113. Clemeti, F., et al.
A pharmacologic and morphologic study on the nature of the dense-core granules present in the presynaptic endings of sympathetic ganglia.
Intern. J. Neuropharmacol. 5(4): 281-5, '66

1114. Janzik, H. & Gleese, P.
Dense and clear synaptic vesicles in the central nervous system.
Naturwissenshaften 53(15): 385- , '66

1115. Schlaepfer, W.W. & Torack, R.M.
The ultrastructural localization of cholinesterase activity in the sciatic nerve of the rat.
J. Histochem. Cytochem. 14(5): 369-78, '66

1116. Takahashi, Y., et al.
Preparation of polysomes from rat brain tissue. (BBA 93137)
Biochim. Biophys. Acta 119(3): 627-9, '66

XI. ENZYMES & COFACTORS (1117–1147)

1117. Ahmed, K., et al.
Interaction of Na^+ and K^+ with a cation-dependent ATPase system from rat brain. (BBA 45353)
Biochim, Biophys. Acta 120(3): 351-60, '66

1118. Armitage, A.K., et al.
Effects of nicotine and some nicotine-like compunds injected into the cerebral ventricles of the cat.
Brit. J. Pharmacol. 27(1): 33-45, '66

1119. Bell, C.
Use of the direct-coloring thiocholine technique for demonstration of intracellular neuronal cholinesterases.
J. Histochem. Cytochem. 14(7): 567-70, '66

1120. Bennett, E.L., et al.
Acetylcholinesterase activity and weight measures in fifteen brain areas from six lines of rats.
J. Neurochem. 13(7): 563-72, '66

1121. Birmingham, A.T.

The potentiation by anti-cholinesterase drugs of the responses of the guinea-pig isolated vas deferens to alternate preganglionic and postganglionic stimulation.
Brit. J. Pharmacol. 27(1): 145-56, '66

1122. Bonavita, V., et al.
Molecular and kenetic properties of lactate dehydrogenase in the degenerating peripheral nerve.
J. Neurol. Sci. 3(4): 340-8, '66

1123. Brady, R.O., et al.
Demonstration of a deficiency of glucoerebroside-cleaving enzyme in Gaucher's disease.
J. Clin. Invest. 45(7): 1112-5, '66

1124. Clarenburg, R., et al.
Development of hydrolytic cholesterol esterase activity in rat brain.
Biochemistry 5(7): 2433-40, '66

1125. Davis, P.W. & Brody, T.M.
Inhibition of $Na^+ K^+$-activated adenosine triphosphatase activity in rat brain by substitute phenothiazines.
Biochem. Pharmacol. 15(6): 703-10, '66

1126. Dreyfus, P.M. & Hauser, G.
Enzymatic topography of the nervous system and its relation to the lesions produced by thiamine deprivation.
Proc. 5th Intern. Congr. Neuropathol. 429-32, '66

1127. Erwin, V.G. & Deitrich, R.A.
Brain aldehyde dehydrogenase. Localization, purification, and properties.
J. Biol. Chem. 241(15): 3533-9, '66

1128. Gatt, S., et al.
Isolation of rat brain lecithinase-A specific for the α-position of lecithin.
Biochem. Biophys. Res. Commun. 24(2): 169-72, '66

1129. Goldberg. A.F., et al.
Electrophoretic separation of serum acid phosphatase isoenzymes in Gaucher's disease, prostatic carcinoma and multiple myeloma.
Nature 211(5044): 41-3, '66

1130. Guarneri, R. & Bonavita, V.
Nicotinamide adenine dinucleotides in the developing rat brain.
Brain Res. 2(2): 145-50, '66

1131. Hakanson, R. & Owman, Ch.
Pineal DOPA decarboxylase and monoamine oxidase activities as

related to the mono-amine stores.
J. Neurochem. 13(7): 597-605, '66

1132. Hamberger, A. & Sjöstrand, J.
Respiratory enzyme activities in neurons and glial cells of the hypoglossal nucleus during nerve regeneration.
Acta Physiol. Scand. 67(1): 76-88, '66

1133. Koelle, G.B. & Gromadzki, C.G.
Comparison of the gold-thiocholine and gold-thiolacetic acid methods for the histo-chemical localization of acetylcholinesterase and cholinesterases.
J. Histochem. Cytochem. 14(6): 443-54, '66

1134. Koketsu, K.
Restorative action of fluoride on synaptic transmission blocked by organophosphorus anticholinesterases.
Intern. J. Neuropharmacol. 5(3): 247-54, '66

1135. McGeer, E. & McGeer, P.L.
Circadian rhythm in pineal tyrosine hydroxylase.
Science 153(3731): 73-4, '66

1136. McKerracher, D.W., et al.
Pseudocholinesterase and the prediction of stability in subnormal and psychopathic offenders.
Brit. J. Psychiat. 112(488): 717-22, '66

1137. Moore, R.Y., et al.
Norepinephrine and DOPA decarbozylase in rat brain following hypothalamic lesions.
Intern. J. Neuropharmacol. 5(4): 287-91, '66

1138. Müller, W.
Die Verteilung thiolgruppenhaltiger Verbindungen in Hirntumoren.
Proc. 5th. Intern. Congr. Neuropathol. 911-5, '66

1139. Norstrand, I.F., et al.
Comparative activity of guanase in various levels of the central nervous system, and in the spinal fluid of man.
Proc. 5th. Intern. Congr. Neuropathol. 963-5, '66

1140. Novikoff, A.B., et al.
Nucleoside phosphatase and cholinesterase activities in dorsal root ganglia and peripheral nerve.
J. Cell Biol. 29(3): 525-45, '66

1141. Papp, M. & Bozsik, G.
Comparison of the cholinesterase activity in the reticular formation of the lower brain stem of cat and rabbit.
J. Neurochem. 13(8): 697-703, '66

1142. Parmar, S.S., et al.
Interrelationship of chemical structure and antiacetylocholinesterase activity of distributed quinazolones.
Biochem. Pharmacol. 15(6): 723-8, '66

1143. Pinner, B. & Campbell, J.B.
Identification of alkaline phosphatase at the node of Ranvier and incisures of Schmidt-Lantermann in normal and regenerating peripheral nerves.
Proc. 5th. Intern. Congr. Neuropathol. 871-80, '66

1144. Rendina, G.
Enzymic properties of subcellular phosphohydrolases in bovine brain cortex. Brain nucleotide phosphohydrolases.
J. Neurochem. 13(8): 683-95, '66

1145. Schenker, S., et al.
Studies of cellular toxicity of unconjugated bilirubin in kernicteric brain.
J. Clin. Invest. 45(7): 1213-20, '66

1146. Sjostrand, J.
Changes of nucleoside phosphatase activity in the hypoglossal nucleus during nerve regeneration.
Acta Physiol. Scand. 67(2): 219-28, '66

1147. Yonezawa, T. & Iwanami, H.
In vitro study of vitamin B deficiency of the nervous tissue produced by antivitamins.
Proc. 5th. Intern. Congr. Neuropathol. 868-70, '66

XII. METABOLISM (1148–1152)

1148. Buniatian, H.Ch. & Davtian, M.A.
Urea synthesis in brain.
J. Neurochem. 13(8): 743-53, '66

1149. Dunagin, P.E. Jr., et al.
The identification of metabolites of retinal and retinoic acid in rat bile. (BBA 25595)
Biochim. Biophys. Acta 124(1): 71-85, '66

1150. Frankel, H.M. & Cain, S.M.
Arterial and cerebral venous blood substrate concentrations during hyperthermia.
Am. J. Physiol. 210(6): 1265-8, '66

1151. Reading, H.W.
Retinal and retinol metabolism in hereditary degeneration of the retina.
Biochem. J. 100(2): 34p-35p, '66

1152. Wazner, A. F., et al.
A further study of catecholamine O-methylation in schizophrenia.
Nature 211(5049): 604-5, '66

No. 17 October, 1966

CURRENT CONTENTS, 9: July 19, 1966

(1) Barker, D.J.P. Low intelligence: its relationship to length of gestation and rate of foetal growth. Brit. J. Prevent. Social Med., 20:58, 1966. (2) Huttenlocher, P.R. Development of neuronal activity in neocortex of the kitten. Nature, 211:91, 1966. (3) Majoie, B. and Giudicelli, Y. Ontogenetic study of transamination activity in the new-born rabbit's brain and plasma. Comp. Rend. Soc. Biol., 160:69, 1966. (4) Maynard, E.A. Electrophoretic studies of cholinesterases in brain and muscle of the developing chicken. J. Exp. Zool., 161:319, 1966 (5) Metzger, H.P., Cuenod, M., Grynbaum, A. and Waelsch, H. Visual stimulation: lack of effect on protein synthesis in monkey brain. Life Sci., 5:1115, 1966. (6) Nelson, P., Yarnell, G. and Wagle, S.R. Biochemical studies of the developing embryo. II. Studies on CO_2 fixation enzymes. Arch. Biochem. Biophys., 114:543, 1966. (7) Nud-man, S.I. Changes of conditioned activity in rats of different age under the influence of rotation. Zh. Vyss. Nerv. Deyat. Pavlova, 16:550, 1966. (8) Pincus, J.H. and Glaser, G.H. The syndrome of "minimal brain damage" in childhood. New Engl. J. Med., 274:27, 1966. (9) Tissari, A. 5-Hydroxytryptamine, 5-hydroxytryptophan decarboxylase and monoamine oxidase during foetal and postnatal development in the guinea-pig. Acta Physiol. Scand., 67:80, 1966. (10) Yarnell, G.R., Nelson, P.A. and Wagle, S.R. Biochemical studies of the developing embryo. I. Metabolism of gluconeogenic precursors. Arch. Biochem. Biophys., 114:539, 1966.

CURRENT CONTENTS, 9: July 26, 1966

(1) Brady, J.P. and Ceruti, E. Chemore-ceptor reflexes in the new-born infant: effects of varying degrees of hypoxia on heart rate and ventilation in a warm environment. J. Physiol., 184:631, 1966. (2) Clayton, B.E.,

Moncrieff, A.A., Pampiglione, G. and Shepherd, J. Biochemical and EEG studies in phenylketonuric children during phenylalanine tolerance tests. Arch. Dis. Childhood, 41:267, 1966. (3) Fisch, R.O., Gravem, H.J. and Feinberg, S.B. Growth and bone characteristics of phenylketonurics. Am. J. Dis. Children, 112:3, 1966. (4) Fisch, R.O., Walker, W.A. and Anderson, J.A. Prenatal and postnatal developmental consequences of maternal phenylketonuria. Pediatrics, 37:979, 1966. (5) Mandel, P. and Edel-Harth, S. Free nucleotides in the rat brain during postnatal development. J. Neurochem., 13:591, 1966. (6) Menken, M., Barrett, P.V.D., Swarm, R.L. and Berlin, N.I. Kernicterus, Arch. Neurol., 15:68, 1966. (7) Menkes, J.H. Cerebral lipids in phenylketonuria. Pediatrics, 37:967, 1966. (8) Meller, K., Breipohl, W. and Glees, P. Early cytological differentiation in the cerebral hemisphere of mice. An electronmicroscopical study. Vet. Rec., 79:525, 1966.

CURRENT CONTENTS 9: August 2, 1966

(1) Bentley, P.J., Ferguson, D.R. and McGowan, G.K. The effects of arginine deficiency on the water and solute metabolism in weanling rats. J. Physiol., 184: 1015, 1966. (2) Goodrick, C.L., Activity and exploration as a function of age and deprivation. J. Genet. Psychol., 108: 239, 1966. (3) Hogg, I.D. Observations of the development of the nucleus of Edinger-Westphal in man and the albino rat. J. Comp. Neurol., 126:567, 1966.

CURRENT CONTENTS, 9: August 9, 1966

(1) Abdel-Latif, A.A. Acetylcholine and the incorporation of (32_P) phosphate into phospholipids and phosphoproteins of nerve endings of developing rat brain. Nature, 211:530, 1966. (2) Centerwall, W.R. and Ittyerah, T.R. Phenylketonuria among the mentally retarded in India. The Lancet, 2:193, 1966. (3) Dittrichova, J. Development of sleep in infancy. J. Appl. Physiol., 21:1243, 1966. (4) Gentil, C., Valette, A.-M., Lemonnier, A., Colin, J., Odievre, M., Leluc, R., Thuong, C.T. and Alagille, D. Etude du métabolisme glucidique au cours de la galactosèmie

congenitale. Arch. Franc. Pediat., 23:509, 1966. (5) Kireger, I. The energy metabolism in infants with growth failure due to maternal deprivation, undernutrition, or causes unknown: metabolic rate calculated from the insensible loss of weight. Pediatrics, 38:63, 1966. (6) Sinclair, J.C. and Silverman, W.A. Intrauterine growth in active tissue mass of the human fetus, with particular reference to the undergrown baby. Pediatrics, 38:48, 1966. (7) Sun, C.N. Lattice structures and osmiophilic bodies in the developing respiratory tissue of rats. J. Ultrastruct. Res., 15:380, 1966. (8) Waxman, S.H. and Arakaki, D.T. Familial mongolism by a G/G mosaic carrier, J. Pediat., 69:274, 1966.

CURRENT CONTENTS, 9: August 16, 1966.

(1) Combs, J.T., Grunt, J.A. and Brandt, I.K. New syndrome of neonatal hypoglycemia, New Engl. J. Med., 275:236, 1966. (2) Perry, T.L., Tischler, B. and Chapple, J.A. The incidence of mental illness in the relatives of individuals suffering from phenylketonuria or mongolism. J. Psychiat. Res., 4:51, 1966. (3) Rahill, W.J., Winters, R.W. Normal acid-base composition of cerebrospinal fluid in infants and children. Proc. Soc. Exp. Biol. Med., 122:935, 1966.

****

CALLING ATTENTION TO:

"A Bibliography in Neuropsychology" Reviews and Books, 1960-1965, by Richard T. Louttit, Neuropsychology Section, Behavioral Science Research Branch, Extramural Research Programs, National Institutes of Mental Health, Bethesda, Maryland 20014.

****

NEW BOOKS:

"Neuroembryology: An Experimental Study" by Samuel R. Detweiler, Hafner Publishing Company, New York.

****

Those of you who have been interested in information exchange groups will find the comments from the American Association of Immunologists published in SCIENCE, 153:

****

CALLING ATTENTION TO:

At the AAAS Meeting in Washington, D.C.--Shorham Hotel, Tuesday, December 27 at 1:30 P.M. The following symposium in social environment and brain chemistry will be given:

Symposium: Social Environment and Brain Chemistry

Joint program of the Animal Behavior Society, the Ecological Society of America Section of Animal Behavior and Sociobiology, and the American Society of Zoologists Division of Animal Behavior and Sociobiology; cosponsored by AAAS Section I-Psychology, Section Np-Pharmaceutical Sciences, and Section N-Medical Sciences. Arranged by Bruce L. Welch, Memorial Research Center, University of Tennessee and Oak Ridge Institute for Environmental Studies.

1. Introductory remarks by the chairman.
2. Isolation, Grouping, Aggressiveness and Brain Amines. SILVIO GARATTINI and L. VAIZELLI, Istituto di Richerche Farmacologiche "Mario Negri", Milan, Italy.
3. Social Stimulus, CNS Responsivity, and the Metabolism of Central Sympathetic Neurohumors. ANNEMARIE S. WELCH and BRUCE L. WELCH, Memorial Research Center, University of Tennessee and Oak Ridge Institute for Environmental Studies.
4. Brain Amines and Environmental Stress. EUGENE L. BLISS, Department of Psychiatry, University of Utah.
5. Influence of Early Environment on Brain Chemistry and Liver Constituents.
   EDWARD GELLER and ARTHUR YUWILER, Neurobiochemistry Laboratory, Veterans Administration Hospital, U.C.L.A. Center for Medical Sciences, Los Angeles.
6. Effects of Social Status and Early Experience on Behavior and Amphe-

tamine Toxicity of Different Strains of Mice. DELBERT D. THIESSEN, Department of Psychology, University of Texas, Austin.

7. Environmental Factors and Drugs on Brain Catecholamines. KENNETH E. MOORE, Department of Pharmacology, Michigan State University, East Lansing.
8. Trends and Perspectives. BRUCE L. WELCH, Memorial Research Center, University of Tennessee and Oak Ridge Institute for Environmental Studies.

REFERENCES:

(1) Barker, J.N. Fetal vascular basis for neonatal atelectasis. Fed. Proc., 25: 1966. (2) Barker, J.N. Fetal and neonatal cerebral blood flow. Am. J. Physiol., 210:897, 1966. (3) Berlow, S. Studies in cystathioninemia. Am. J. Dis. Child., 112:135, 1966. (4) Chen, H.-C., Lin, C.-S. and Lein, I.-N. Ultrastructural studies in experimental kernicterus. Am. J. Pathol., 48:683, 1966. (5) Edwards, N.J. Prenatal loss of foetuses and abortion in guines-pigs. Nature, 210:223, 1966.

(6) Kanazawa, A., Kakimoto, Y., Nakajima, T. and Sano, I. Identification of γ-glutamylserine, γ-glutamylalanine, γ-glutamylvaline and S-methylglutathione of bovine brain. Biochim. Biophys. Acta, 3:90, 1965. (7) Kassabgui, M., Cadihac, J. and Passouant, P. Etude des réponses évoquées visuelles au cours du sommeil avec mouvements oculaires chez le jeune enfant. Compt. rend. Soc. Biol., 160:162, 1966. (8) Krnjevic, K. and Silver, A. The development of cortical acetylcholinesterase (AChE) staining in the brain of the cat. J. Physiol., 175:23, 1964. (9) Krupka, R.M. Chemical structure and function of the active center of acetylcholinesterase. Biochemistry, 5:1988, 1966. (10) Lindbohm, R. and Wallgren, H. Oxidation of acetate by rat cerebral cortex in vitro and the effect of stimulation. J. Neurochem., 13:573, 1966.

(11) McCaman, R.E., Rodriguez de Lores Arnaiz, G. and De Robertis, E. Species differences in subcellular distribution of choline acetylase in the

CNS. J. Neurochem., 12:927, 1965. (12) Malamud, N. Neuropathology of phenylketonuria. J. Neuropath. Exp. Neurol., 25:254, 1966. (13) Mangan, J.L. and Whittaker, V.P. The distribution of free amino acids in subcellular fractions of guinea-pig brain. Biochem. J., 98:128, 1966. (14) Mirsky, A.F., Bloch-Rojas, S. and McNary, W.F., Experimental 'petit mal' epilepsy produced with chlorambucil. Acta Biol. Exper., 26:55, 1966. (15) Mulligan, R. M. The interrelation between the bases of nucleic acids and the amino acids of protein as exemplified in the maturing normoblast. Exp. Med. Surg., 24:74, 1966.

(16) Odor, D.L., Pearce, L.A. and Janeway, R. Juvenile amaurotic idiocy: An electron microscopic study. Neurology, 16:496, 1966. (17) Oja, S.S. Postnatal changes in the concentration of nucleic acids, nucleotides and amino acids in the rat brain. Ann. Acad. Sci. Fennicae, Series A, V. Medica, 125:1, 1966. (18) Oliverio, A. and Bovet, D. Effects of age on maze learning and avoidance conditioning of mice. Life Sci., 5:1317, 1966. (19) Petre-Quadens, O. On the different phases of the newborn with special reference to the activated phase, or phase d. J. Neurol. Sci., 3:151, 1966. (20) Petre-Quadens, O. L'ontogènese de la phase de sommeil correspondant au reve. Acta Neurol. Psychiat., 65:971, 1966.

(21) Piha, R.S., Oja, S.S. and Uusitalo, A.J. The effect of chlorpromazine on free amino acids in the rat brain. Annls. Med. exp. Biol., 40:1, 1962. (22) Reiss, M. New perspectives in research into the etiology of mental retardation. Int. J. Neuropsychiat., 2:310, 1965. (23) Schulte, F.J. and Schwenzel, W. Motor control and muscle tone in the newborn period. Electromygraphic studies. Biol. Neonat., 8:198, 1965. (24) Shimizu, H., Kakimoto, Y. and Sano, I. Changes in concentration of polyamines in the developing mouse brain. Nature, 207:1196, 1966. (25) Shnider, S.M. Fetal and neonatal effect of drugs in obstetrics. Anesthesia and Analgesia, 45:372, 1966.

(26) Thomson, M.A. Développement des activités hippocampiques spontanées et provoquées chez le jeune Lapin. J. Physiol., 57:710, 1965.

(27) Thomson, M.A. and Laget, P. Développement des activités hippocampiques spontanées et provoquées chez le jeune Lapin. Compt. redn. Soc. Biol., 159:1929, 1965. (28) Utley, J.D. Gamma aminobutyric acid and 5-hydroxytryptamine concentrations in neurons and glial cells in the medial geniculate body of the cat. Biochem. Pharmacol., 12:1225, 1963. (29) Utley, J.D. Glutamine synthetase, glutamotransferase, and glutaminase in neurons and non-neural tissue in the medial geniculate body of the cat. Biochem. Pharmacol., 13:1383, 1964. (30) Verley, R. and Garma, L. Polarité des activités electrocorticales au cours de l'ontogénese, chez le Lapin. J. Physiol., 57:717, 1965. (31) Werman, R., Davidoff, R.A. and Aprison, M.H. The inhibitory action of cystathionine. Life Sci., 5:1431, 1966. (32) Zamenhof, S., Mosley, J. and Schuller, E. Stimulation of the proliferation of cortical neurons by prenatal treatment with growth hormone. Science, 152:1396, 1966.

****

CURRENT CONTENTS, 9: Aug. 16, 1966.

(1) Schachter, J., Bickman, L., Schachter, J.S., Jameson, J. and Williams, T.A. Behavioral and physiological reactivity in human neonates (abstract). Dis. Nerv. Syst., 27:37, 1966.

CURRENT CONTENTS, 9: Aug. 23, 1966.

(1) Koenigsberger, M.R. Judgment of fetal age: I. Neurologic evaluation. Pediat. Clin. N. Am., 13:823, 1966. (2) Lund, E. and Ovnbøl, A. Occult phenylketonuria. Experience with the Guthrie test. Acta Path. Microb. Scand., 67:9, 1966. (3) Martin, C.B., Jr., Ramsey, E.M. and Donner, M.W. The fetal placental circulation in rhesus monkeys demonstrated by radioangiography. Am. J. Obstet. Gynecol., 95:943, 1966. (4) Naeye, R.L. and Kelley, J.A. Judgment of fetal age: III. The Pathologist's evaluation. Pediat. Clin. N. Am., 13:849, 1966. (5) Ramsey, E.M., Martin, C.B., Jr., McGaughey, H.S., Jr., Kaiser, I.H. and Donner, M.W. Venous drainage of the placenta in rhesus monkeys: Radiographic studies. Am. J. Obstet. Gynecol., 95:948, 1966. (6) Rodda, R. and Denny-Brown, D. The cerebral arterioles in experimental hyperten-

sion. II. The development of arteriolonecrosis. Am. J. Pathol., 49: 365, 1966. (7) Rosen, M.G. and McLaughlin, A. Maternal and fetal electroencephalography in the guinea pig. Am. J. Obster. Gynecol., 95: 1001, 1966. (8) Usher, R., Mclean, F. and Scott, K. E. Judgment of fetal age: II. Clinical significance of gestational age and an objective method for its assessment. Pediat. Clin. N. Am., 13:835, 1966.

CURRENT CONTENT, 9: Aug. 30, 1966.

(1) Behrendt, H. Diagnosis of autonomic disorders in the neonate (Drug Addiction-Riley's Disease). Proc. R. Virchow Med. Soc., N.Y., 23:94, 1966. (2) Berry, H.K. and Leonard, C.S. Plasma amino acids in full-term infants. Am. J. Clin. Nutr., 19:99, 1966. (3) Burgi, W., Richterich, R. and Colombo, J.P. L-Lysine dehydrogenase deficiency in a patient with congenital lysine intolerance. Nature, 211:854, 1966. (4) Cravioto, J., DeLicardie, E.R. and Birch, H.G. Nutrition, growth and neurointegrative development: An experimental and ecologic study. Pediatrics, 38:319, 1966. (5) Gilmore, S.A. Delayed myelination of neonatal rat spinal cord induced by X-irradiation. Neurology, 16:749, 1966. (6) Hsia, D.Y.-Y. The screening of hereditary metabolic defects among newborn infants. Can. Med. Assoc. J., 95:247, 1966. (7) Hsia, D.Y.-Y. Phenylketonuria: A study of human biochemical genetics. Pediatrics, 38:173, 1966. (8) Lipton, J.M. Locomotor behavior and neuromorphologic anomalies in prenatally and postnatally irradiated rats. Radiation Res., 28:822, 1966. (9) Palaic, Dj. and Supek, Z. Liberation of brain 5-hydroxytryptamine and noradrenaline by X-ray treatment in the new born and adult rat. J. Neurochem., 13:705, 1966. (10) Terplan, K.L., Sandberg, A.A. and Aceto, T., Jr. Cerebellar anomalies associated with trisomy. J. Am. Med. Assoc., 197:557, 1966. (11) Yaffe, S.J. and Back, N. Pediatric pharmacology, Postgrad. Med., 40:193, 1966.

CURRENT CONTENTS, 9: Sept. 6, 1966.

(1) Bajpai, P.C., Sugden, D., Ramos, A. and Stern, L. Serum magnesium levels in the newborn and older child. Arch. Dis. Childhood, 41:424,

1966. (2) Davis, J.A., Harvey, D.R. and Stevens, J.F. Osmolality as a measure of dehydration in the neonatal period. Arch Dis. Childhood, 41:448, 1966. (3) Krompecher, St. and Lipak, J. A simple method for determining cerebralization: Brain weight and intelligence. J. Comp. Neurol., 127:113, 1966. (4) Robinson, R.J. Assessment of gestational age by neurological examination. Arch. Dis. Childhood, 41:437, 1966. (5) Santolucito, J.A., Poston, H.A. and Ulberg, L.C. Effects of brain lipid extracts on reproduction in the laboratory rat. Comp. Biochem. Physiol., 18:673, 1966. (6) Scopes, J.W. and Ahmed, I. Minimal rates of oxygen consumption in sick and premature newborn infants. Arch. Dis. Childhood, 41:407, 1966. (7) Scopes, J.W. and Ahmed, I. Range of critical temperatures in sick and premature newborn babies. Arch. Dis. Childhood, 41:417, 1966.

CURRENT CONTENTS, 9: Sept. 13, 1966.

(1) Birns, B., Blank, M. and Bridger, W.H. The effectiveness of various soothing techniques on human neonates. Psychosomat. Med., 28: 316, 1966. (2) Brahma, S.K. An autoradiographic study of RNA synthesis during primary embryonic induction. J. Embryol. Exptl. Morphol., 16:203, 1966. (3) Churchill, J.A., Grisell, J. and Darnley, J.D. Rhythmic activity in the EEG of newborns. Electroencephalog. Clin. Neurophysiol., 21:131, 1966. (4)Geber, W.F. Developmental effects of chronic maternal audiovisual stress on the rat fetus. J. Embryol. Exptl. Morphol., 16:1, 1966. (5) Grabowski, C.T. Ontogenetic changes in the concentration of serum proteins in chick and mammalian embryos. J.Embryol. Exptl. Morphol., 16:197, 1966. (6) Kratin, Yu. G., On different extinction rate of the arousal responses to indifferent sounds in young and old rabbits. Zh. Vyss. Nerv. Deyat. Pavlova, 16:694, 1966. (7) Liss, L. and Grumer, H.-D. Effect of L-phenylalanine on central nervous system elements in tissue culture. J. Neurol. Neurosurg. Psychiat., 29:371, 1966. (8) Mitchell, B. Anaesthesia for caesarean section and factors influencing mortality rates of bitches and puppies. Vet. Rec., 79:252, 1966. (9) Mourek, J. The influence of fasting on the development of the organism during the early stages of ontogenesis (with

special reference to the development of the central nervous system). Acta Univ. Carolinae Medica, 11:493, 1965. (10) Wise, R. W. and Oliver, I. T. Sites of synthesis of plasma proteins in the foetal rat. Biochem. J., 100:330, 1966.

CURRENT CONTENTS, 9: Sept. 20, 1966.

(1) Alexander, D.P., Britton, H.G. and Nixon, D.A. Observations on the isolated foetal sheep with particular reference to the metabolism of glucose and fructose. J. Physiol., 185:382, 1966. (2) Balis, J.U., Chan, A.S. and Conen, P.E. Lathyrogenic injury to foetal rat aorta and postnatal repair. Exptl. Mol. Pathol., 5:396, 1966. (3) Bruck, K. and Wunnenberg, B. Influence of ambient temperature in the process of replacement of nonshivering by shivering thermogenesis during postnatal development. Fed. Proc., 25:1332, 1966. (4) Harashima, S. and Kurata, M. Temperature regulation in the neonate and the infant. Fed. Proc., 25:1321, 1966. (5) Khamsi, F. and Eayrs, J.T. A study of the effects of thyroid hormones on growth and development. Growth, 30: 143, 1966. (6) Kurata, M., Funatsu, Y. and Ishizuka, H. Addendum: Body temperature of neonates. Fed. Proc., 25:1323, 1966. (7) Lauweryns, J.M. Pulmonary arterial vasculature in neonatal hyaline membrane disease. Science, 153:1275, 1966. (8) Miller, J.A., Jr. and Miller, F.S. Discussion: Interactions between hypothermia and hypoxia-hypercapnia in neonates. Fed. Proc., 25:1338, 1966. (9) Moore, R. E. and Simmonds, M.A. Decline with age in the thermogenic response of the young rat to l-noradrenaline. Fed. Proc., 25:1329, 1966. (10) Thomson, J.L. and Brinster, R.L. Glycogen content of preimplantation mouse embyos. Anat. Rec., 155:97, 1966. (11) Timiras, P.S. and Woolley, D.E. Functional and morphologic development of brain and other organs of rats at high altitude. Fed. Proc., 25:1312, 1966.

CURRENT CONTENTS, 9: Oct. 4, 1966

(1) Holstein, T.J., Fish, W.A. and Stokes, W.M. Pathway of cholesterol biosynthesis in the brain of the neonatal rat. J. Lipid Res., 7:634, 1966. (2) Roux, J.R. Lipid metabolism in the fetal and neonatal rabbit. Meta-

bolism, 15:856, 1966. (3) Valcana, T., Vernadakis, A. and Timiras, P.S. Electrolyte content of the cerebral cortex in developing rats after prenatal x-radiation. Experientia, 22:608, 1966.

CURRENT CONTENTS, 9: Oct. 11, 1966

(1) Kugel, R.B., Lundgren, R.G., Jr., and Fedge, A.K. A comparison of two laboratory techniques for early detection of phenylketonuria. Am. J. Ment. Def., 71:244, 1966.

CURRENT CONTENTS, 9, Oct. 18, 1966.

(1) Adamsons, K., Jr. and Joelsson, I. The effects of pharmacologic agents upon the fetus and newborn. Am. J. Obstet. Gynecol., 96:437, 1966. (2) Belzecka, K. The biochemic lesions in phenylketonuria. Postepy Biochem., 12:363, 1966. (3) Hill, R.M., Desmond, M.M. and Kay, J.L. Extrapyramidal dysfunction in an infant of a schizophrenic mother. J. Pediat., 69:589, 1966. (4) McKean, C.M. and Boggs, D.E. Influence of high concentrations of phenylalanine on the amino acids of cerebrospinal fluid and blood. Proc. Soc. Exp. Biol. Med., 122:987, 1966. (5) Menkes, J.H., Chernick, V. and Ringel, B. Effect of elevated blood tyrosine on subsequent intellectual development of premature infants. J. Pediat., 69:583, 1966. (6) Murai, N. Effect of maternal medication during pregnancy upon behavioral development of offspring. Tohoku J. Exptl. Med., 89:265, 1966. (7) Solomons, G., Keleske, L. and Optz, E. Evaluation of the effects of terminating the diet in phenylketonuria. J. Pediat., 69:596, 1966. (8) Van den Berg, B.J. and Yerushalmy, J. The relationship of the rate of intrauterine growth of infants of low birth weight to mortality, morbidity and congenital anomalies. J. Pediat., 69:531, 1966. (9) Yajima, A. The decrepitufde of the rat brain with special reference to changes in nucleic acid. Tohoku J. Exptl. Med., 89:235, 1966. (10) Yeary, R.A., Bernish, R.A. and Finkelstein, M. Acute toxicity of drugs in newborn animals. J. Pediat., 69:663, 1966.

CURRENT CONTENTS, 9: Oct. 25, 1966.

(1) Edwards, D.C., Fenton, E.L., Kakari, S., Large, B.J., Papadaki, L. and Zaimis, E. Effects of nerve growth factor in new-born mice, rats and kittens. J. Physiol., 186:10P, 1966. (2) Eiduson, S. 5-Hydroxytryptamine in the developing chick brain: Its normal and altered development and possible control by end-product repression. J. Neurochem., 13:923, 1966. (3) Heim, T. and Hull, D. The blood flow and oxygen consumption of brown adipose tissue in the new-born rabbit. J. Physiol., 186:42, 1966. (4) Laurent, C. and Robert, J.M. Etude génétique et clinique d'une famille de sept enfants dans laquelle trois sujets sont atteints de la "maladie du cri du chat". Ann. Genet. Paris, 9:113, 1966. (5) Peterson, N.A., Nataf, B.M., Chaikoff, I.L. and Ragupathy, E. Uptake of injected ^{131}I-labelled thyroxine, triiodothyronine and iodide by rat brain during various stages of development. J.Neurochem., 13:933, 1966.

CURRENT CONTENTS, 9: Nov. 1, 1966.

(1) Becker, K.L. Translocation mongolism; mechanism and clinical implications. Postgrad. Med., 40:459, 1966. (2) Menser, M., Harley, J.D., Housego, C.J. and Murphy, A.M. Possible chemical factors in the postnatal development of rubella cataracts. The Lancet, 2:771, 1966. (3) Yules, R.B., Krebs, C.Q. and Gault, F.P. Physiology of the lateral vestibular nucleus. Exp. Neurol., 16:172, 1966.

CURRENT CONTENTS, 9: Nov. 8, 1966.

(1) Maffei, L. and Poppele, R.E. Electrophysiological evidence for a neural stage in dark adaptation. Experientia, 22:685, 1966.

—D.B.Tower博士講演要旨—

Glutamyl and Aspartyl Moieties of Cerebral Proteins: Metabolic Aspects and Enrichment in Membrane-Containing Subcellular Fractions

Donald B. Tower
Chief, Laboratory of Neurochemistry,
National Institute of Neurological Disease and Blindness.

Characteristics of metabolism and distribution have been investigated for the glutamyl and aspartyl moieties and their respective amides in protein mixtures isolated from various tissues, usually after incubation under optimal conditions in vitro. Details of methods will be summarized.

Proteins isolated from cerebral cortex after preparation as slices (either fresh or incubated) exhibit characteristically and uniquely (for all tissues examined) a significant decrease of total amide content, a decrease attributable to deamidation of a portion of the glutaminyl residues in the protein mixture. The NH_3 released can account for most of the excess NH_3 usually encountered in such slice preparations in vitro. Hence, as proposed by several earlier investigators, amide NH_3 in cerebral proteins is likely to be the major source of endogenous cerebral NH_3.

In order to determine whether the deamidation was reversible under in vitro conditions, experiments involving incubation of cortical slices with ^{14}C-labelled glutamate and/or ^{15}N-labelled NH_4Cl and/or glutamine were carried out. Of the total ^{14}C-glutamate metabolized, only about 1 % was recovered as protein-bound glutamate, and the distribution of ^{14}C specific activities between free and protein pools showed essentially similar SA ratios for both glutamic acid and glutamine. These results compare favorably to data for these and other amino acids from analogous studies in vivo.

There was extensive incorporation of ^{15}N from $^{15}NH_4Cl$ into the amide N of free pool glutamine but comparable labelling of protein-bound glutamine amide N was minimal and no more than could be accounted for by the rate of turnover indicated by the ^{14}C experiments. Hence no evidence for the direct reamidation of cerebral proteins under these in vitro conditions could be adduced. This conclusion concurs with previous reports on analogous experi-

ments in vivo.

When other tissues were examined, it was observed that the mixed proteins isolated from renal cortex, diaphragm and testis contained a significantly higher content of glutamyl and aspartyl residues than was the case for liver or brain (cortex or white matter) proteins. The possibility that this feature was associated with membrane-rich tissues or subfractions thereof received support from similar findings for proteins isolated from erythrocyte ghosts and eel electroplax (E. electricus), and from microsomal fractions of cerebral cortex and liver. Subfractionation of the latter preparations yielded a major protein fraction characterized by a content of glutamyl and aspartyl residues of some 30 % of the total amino acid content. This enrichment of glutamyl and aspartyl residues (of some two- to threefold over usual prevalence) in protein from membranerich subcellular fractions may reflect a role for these components in providing fixed negative charges in such membranes for mechanisms supporting various transport processes across the membranes.

第10回　日本神経化学会演題募集

会長　小林　龍男(千葉大・医・薬理)
日時　昭和42年10月5日(木)，6日(金)
会場　日仏会館講堂(東京)

下記により第10回日本神経化学会の演題募集をいたします。今回の学会では精神薬理に関するシンポジウムが行われます（シンポジウム演題は公募致しません)。

一般公募講演は、現在進行中の研究の予報，新しい技術の紹介，あるいは症例報告的な発表をも期待して，広く神経化学の研究発表を募集致します。

〔応募要項〕

演題，演者名，抄録を次の規定に従って，**7月15日(土)**までに学会事務局に**必着**するように提出して下さい。

(1)演題申込者は学会々員でなければなりません。

(2)応募を予定される方はなるべく早目に事務局に**原稿用紙**および**記載方法の解説**を要求して下さい。
抄録集は写真印刷にしますので，**必ず**所定の原稿用紙に所定の方法で書いて下さい。

(3)抄録には，予め講演内容を知らせ討論が活発に行なわれるようにするため，さらにスライドの使用をできるだけ少なくするため，実験の方法・成績・考察を詳しく記載し，図表および文献を含めて所定の原稿用紙で**8枚以内**（約6000字以内）のものを提出して下さい。
印刷の都合上写真は遠慮して下さい。

(4)抄録にそえて**1枚以内の要約**を提出して下さい。

(5)演題申込の際，講演の希望時間（5分，10分，15分の別）を記載して下さい。講演時間の決定，プログラムの編成については理事会におまかせ下さい。

(6)演題申込み多数の場合は，取捨選択は理事会にお任せ下さい。討論の対象として不適当なもの，抄録が不完全で内容の不明確なもの，および所定の方法に従わないものは，ご遠慮願うことがあります。

8月上旬プログラム編成を終了し，直ちにご連絡します。なお，抄録集は機関誌〔神経化学〕の別冊号として発行し9月中旬にお送りします（実費を頂きます)。抄録集を希望の向きは9月15日までに申込んで下さい。

尚，学会で発表された論文は，学会終了后，ご希望により機関誌〔神経化学〕に原著論文として掲載されます。

連絡先：日本神経化学会事務局
東京都新宿区信濃町　慶応大学医学部生理
学教室内　Tel.353－1211(内線2613)
振替：東京23232

演題申込の方で会員でない方は，入会の手続をお願い致します（入会申込には入会申込用紙に所定事項を記入して事務局にお送り下さい。

会費〔年額1500円〕は振替により送金して下さい)。

—— 報　告 ——

日本神経化学会理事選挙報告

さきに行われた理事選挙の結果は次の通りである。

投票用紙発送数	543通
投票総数	270通
有効数	269通
無効数	1通

12月15日午后2時より事務局において開票を行った。立会人：融道男(東京医歯大・神経),稲村博(東大・医・神経),野口鉄也(慶大医・医・生理)。

当選者(敬称略)は次の通りである。

(基礎)

塚田　裕三（慶大・医・生理）
黒川　正則（東大・医・脳研）
早石　修（京大・医・医化）
高垣玄吉郎（慶大・医・生理）
吉田　博（阪大・医・薬理）

(臨床)

台　弘（東大・医・神経）
佐野　勇（阪大・医・神経）
川北　幸男（阪市大・医・神経）
高橋　良（東大・医・神経）
柿本　泰男（阪大・医・神経）
成瀬　浩（国立精研）
高坂　睦年（岡大・医・神経）

以上12名

昭和42年度，日本神経化学会第1回理事会議事録

日時：昭和42年1月27日(金)

場所：東京

出席者：早石　修，川北　幸男，柿本　泰男，高坂　睦年
黒川　正則，成瀬　浩，佐野　勇，高垣玄吉郎
高橋　良，塚田　裕三，台　弘，吉田　博
小林　龍男（会長）　永田　豊（事務局）

欠席者：なし

1．理事長選出の件：今回は現12名の理事の互選により理事長を選出することとし，その結果塚田裕三氏に満場一致決定した。

2．常任理事選出の件：佐野　勇氏に委嘱した。

3．理事補充の件：地域別，専門別（神経学，脳外科，生化学，薬理学など），年令別（特に若手研究者をも考慮する）を考え，候補者をあげ投票の結果次の3氏を推薦することに決定した。

小林　龍男（千葉大・医・薬理）
佐武　明（新潟大・脳研・生化）
宇尾野公義（東大・医・内科）

4．監事推薦の件：次の2氏を推薦することとした。

江副　勉（松沢病院）
平野　修助（東邦大・医・生理）

5．新評議員候補者推薦の件：正会員より候補者の推薦を求め改めて次回理事会で選考することとした。

6．機関誌「神経化学」編集委員委嘱の件：専門別を考慮して次の各氏に委嘱することとした。

石川　晋次，柿本　泰男，高坂　睦年，黒川　正則，成瀬　浩，
西塚　康美，高垣玄吉郎(世話人)，高橋　良，高橋　康夫，
塚田　裕三，宇尾野公義，吉田　博(12名)

投稿規定の再検討，および綜説記事の選定などを新編集委員会で行なうこととした。

7．第10回日本神経化学会運営に関する件：次の通り決定した。

会期：昭和42年10月5日(木)・6日(金)

会場：東京都内とし，小林龍男会長に一任した。

シンポジウム：「精神，神経薬理学」に関するシンポジウムを行うが，演者は会長の指名とし，一般公募は行なわない。

外人特別講演：現在，候補者がなく，会長に一任した。

一 般 講 演：昨年同様に公募し，5分，10分，15分の希望時間を付し，所定の方法で事務局に申込申込むこととした。公募原稿〆切は7月15日(土)とした。審査及びプログラム編成には理事会が当ることとし，今回は専門委員として宇尾野公義，佐武明の2氏を依頼し，8月5日(土)東京で行なう。

演題公募要項の配布：従来の通り本会会員に配布するほか，小児科，神経学領域で現在神経化学の研究を行なっている未入会の研究者にも，入会申込書とともに演題公募要項を配布することとした。

8．本会主催講演会開催の件：

a) Dr. D. B. Tower (NIH, USA) 講演会

日本医学会総会に来日される機会に，慶応医学会と共催で講演会を行う。4月11日(火)午後3時より。慶応大学医学部(東京都新宿区信濃町)第一校舎講堂。

演題は，Glutamyl and Asparatyl Moieties of Cerebral Proteins: Metabolic Aspects and Enrichment in Membrane-Containing Subcellular Fractions.

b) 8月東京で開催される国際生化学会議に来日する神経化学者の講演会を行う。8月19日(土)午後1時より5時迄。野口英世記念館講堂(東京都新宿区大京町26)。

講演予定者：

Dr. H. McIlwain (Maudsley Hospital, U. K.)

Dr. E. Roberts (City of Hope Medical Centre, U. S. A.)

Dr. E. Costa (Columbia University, U. S. A.)

Dr. P. Mandel (Neurochimie de CNRS, France)

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

昭和42年2月25日　印刷　　神経化学　第5巻　第6号
昭和42年2月28日　発行

編集者　（代表）塚田裕三
編集所　東京都新宿区信濃町35番地
慶応義塾大学医学部生理学教室内　日本神経化学会事務局
印刷及製本　東京都文京区後楽1丁目5番地　中央商会
表紙印刷所　東京都北区西ヶ原3丁目46番地　杏林舎
発行所　東京都文京区曙町11番地　緒方書店

会員外の方で本誌の希望は、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. 5　NO. 6

目　次

〔神経化学文献〕
Developing Brain, No. 17 & 18
D.B. Tower 博士講演要旨
第10回日本神経化学会演題募集
〔報告〕
理事選挙結果
昭和42年度，第1回理事会議事録

緒 方 書 店 刊