

REFERENCES

- Barker, J.L., Smith T.G.Jr. and Neal J.H. "Multiple membrane actions of enkephalin revealed by using cultured spinal cord neurones" Brain Res. 154 (1978): 153 - 158.
- Bisti, S., Iosif, G. and Strata, P. "Suppression of inhibition in the cerebellar cortex by picrotoxin and bicuculline" Brain Res. 28 (1971): 591 - 593.
- Bloom, F.D., Hoffer, B.J. and Siggins, G.R. "Norepinephrine mediated cerebellar synapses: a model system for neuropsychopharmacology" Biol. Psychiat. 4 (1972): 157 - 177.
- Changaris, D.G., Severs, W.B. and Keil, L.C. "Localization of angiotensin in rat brain" J. Histochem. Cytochem. 26 (1978): 593 - 607.
- Chujo, T., Yamada, Y. and Yamanoto "Sensitivity of Purkinje cell dendrites to glutamic acid" Exp. Brain Res. 23 (1975) 293 - 300.
- Clarke, R.H. and Horsley, H. "On a method of investigating the deep ganglia and tracts of the central nervous system (cerebellum)". Brit. Med. J. 2 (1906): 1799 - 1800.
- Cooper, J.R., Bloom, F.E. and Roth, R.H. The Biochemical Basis of Neuropharmacology. pp. 294 - 320. New York: Oxford, 1982.
- Curtis, D.R. Physical Techniques in Biological Research; Electrophysiological Methods. vol. 5 pp. 144 - 190. New York: Academic Press, 1964.

- Curtis, D.R., Duggan, A.W. and Johnston, G.A.R. "The specificity of strychnine as a glycine antagonist in mammalian spinal cord" Exp. Brain Res. 12 (1971): 547 - 565.
- Curtis, D.R. and Eccles, R.M. "The excitation of Renshaw cells by pharmacological agents applied electrophoretically" J. Physiol. (London). 141 (1958): 435 - 445.
- Dahlstrom, A. and Fuxes, K. "Evidence for the existence of monoamine-containing neurones in the central nervous system: demonstration of monoamines in the cell bodies of brain stem neurones" Acta Physiol. Scand. 62 (1965): supp. 232, 1 - 55.
- del Castillo, J. and Katz, B. "The location of acetylcholine receptors" J. Physiol. 128 (1955): pp. 157 - 181.
- Eccles, J.C. The Understanding of the Brain pp. 127 - 142, New York: McGraw-Hill, 1973.
- Felix, D. and Akert, K. "The effect of angiotensin II on neurones of the cat subfornical organ" Brain Res. 76 (1974): 350 - 353.
- Frederickson, R.C.A., Neuss, M., Morzorati, S.L. and McBride, W.J. "A comparison of the inhibitory effects of taurine and GABA on identified Purkinje cells and other neurones in the cerebellar cortex of the rat" Brain Res. 145 (1978): 117-126.
- Ganten, D., Minnich, J.L., Granger, P.L., Hayduk, K., Brecht, H.M., Barbeau, A., Bocher, R. and Genest, J. "Angiotensin forming enzyme in brain tissue" Science 173 (1971): 64 - 65.
- Geller, H.M. and Woodward, D.J. "An improved constant current source for micro-iontophoretic drug application studies". Electroenceph. clin Neurophysio 33 (1972): 430 - 432.
- Gronan, R.J. and York, D.H. "Effects of angiotensin II and acetylcholine on neurones in preoptic area" Brain Res. 154 (1978): 172 - 177.

- Haas, H.L., Felix, D., Celio, M.R. and Inagami "Angiotensin II in the hippocampus. A histochemical and electrophysiological study" Experientia 36 (1980): 1394 - 1395.
- Hökfelt, T., Johansson, O., Ljungdahl, A., Lundberg, J.M. and Schultzberg M. "Peptidergic neurone" Nature (London) 284 (1980): 515 - 521.
- Hökfelt, T. and Ljungdahl, A. "Autoradiographic identification of cerebral and cerebellar cortical neurones accumulating labelled gamma-aminobutyric acid ($^3\text{H-GABA}$)" Exp. Brain Res. 14 (1972) 354 - 362.
- Inagami, T., Okamura, T., Hirose, S., Clemens, D.L. and Yokosawa, H. "Identification, characterization and evidence for intraneuronal function of renin in the brain and neuroblastoma cells" Brain Res. Suppl 4 1982: 64 - 75.
- Iversen, L.L. "Chemistry of the brain" Sci. Am. 241 (1979): 118-129.
- Iversen, L.L. "Substance P" British Medical Bulletin 38 (1982): 277 - 282.
- Kawamura, H. and Provini, L. "Depression of cerebellar Purkinje cells by microiontophoretic application of GABA and related amino acid" Brain Res. 24 (1970): 293 - 304.
- Kelly, J.S., Simmonds, M.A. and Straughan, D.W. Microelectrode techniques, in Methods in Brain Research (Bradley, P.B. ed.) pp. 333 - 377. London: Wiley and Sons, 1975.
- Kelly, J.S. "Electrophysiology of peptides in the central nervous system" British Medical Bulletin. 38 (1982): 283 - 290.
- Krnjevic, K. "GABA and other transmitters in the cerebellum" Exp. Brain Res. Suppl. 6 1982: 532 - 551.

Langer, S.Z. "Presynaptic receptors and they role in the regulation of transmitter release" Brit. J. Pharmacol. 60 (1977): 481 - 497.

Lewicki, J.A., Fallon, J.H. and Printz, M.P. "Regional distribution of angiotensinogen in rat brain" Brain Res. 158 (1978): 359 - 370.

McBride, W.J. and Frederickson, R.C.A. "Taurine as a possible inhibitory transmitter in the cerebellum". Federation Proc. 39 (1980): 2701 - 2705.

McLaughlin, B.J., Wood, J.G. Saito, K., Barber, R., Vaughn, J.E. and Roberts, E. "The fine structural localization of glutamate decarboxylase in synaptic terminals of rodent cerebellum". Brain Res. 76 (1974): 377 - 392.

McLennan, H. Synaptic Transmission Saunders, Philadelphia, 1963.

Mountcastle, V.B. (ed.) Medical Physiology Vol. 1 pp. 837 - 858 St. Louis: Mosby, 1980.

Mustafa, F. Lokhandwala, F., Amelang, E. and Buckley, J.P. "Facilitation of cardiac sympathetic function by angiotensin II: role of presynaptic angiotensin receptors" European J. Pharmacol. 52 (1978): 405 - 409.

Nadi, N.S., Kanter, D., McBride, W.J. and Aprison, M.H. "Effects of 3-acetylpyridine on several putative neurotransmitter amino acids in the cerebellum and medulla of the rat" J. Neurochem. 28 (1977): 661 - 662.

Nadi, N.S., McBride, W.J. and Aprison, M.H. "Distribution of several amino acids in regions of the cerebellum of the rat" J. Neurochem. 28 (1977): 453 - 455.

Nicoll, R.A. and Barker, J.L. "Excitation of supraoptic neurosecretory cells by angiotensin II" Nature New Biol. 233 (1971): 172-174.

- Obata, K., Ito, M., Ochi, R. and Sato, N. "Pharmacological properties of the postsynaptic inhibition by Purkinje cell axons and the action of γ -aminobutyric acid in Deiter's neurones" Exp. Brain Res. 4 (1967): 43 - 57.
- Okamoto, K., Quastel, D.M.J. and Quastel, J.H. "Action of amino acids and convulsants on cerebellar spontaneous action potential invitro: effects of deprivation of Cl⁻, K⁺ or Na⁺" Brain Res. 113 (1976): 147 - 158.
- Olsen, R.W., Ban, M., Miller, T. and Johnston, G.A.R. "Chemical instability of GABA antagonist bicuculline under physiological conditions" Brain Res. 98 (1975): 383 - 387.
- Olson, L. and Fuxe, K. "On the projection from the locus coeruleus of the cat" J. comp. Neurol. 73 (1971): 405 - 430.
- Otsuka, M., Obata, Y., Miyata, Y. and Tanaka, Y. "Measurement of GABA in isolated nerve cells of cat central nervous system" J. Neurochem. 18 (1971): 287 - 295.
- Perry, T.C., Currier, R.D., Hansen, S. and MacLean, J. "Aspartate-taurine imbalance in dominantly inherited olivoponto cerebellar atrophy" Neurology 27 (1977): 257 - 261.
- Phillips, M.I. "Angiotensin in the brain" Neuroendocrinology 25 (1978): 354 - 377.
- Phillips, M.I. and Felix, D. "Specific angiotensin II receptive neurones in the cat subfornical organ" Brain Res. 109 (1976): 531 - 540.
- Phillips, J.W. and Limacher, J.J. "Substance P excitation of cerebral cortical betz cells" Brain Res. 69 (1974): 158 - 163.

- Rea, M.A., McBride, W.J. and Rohde, B.H. "Regional and synapsosomal levels of amino acid neurotransmitters in the 3-acetylpyridine deafferent cat cerebellum" J. Neurochem. 34 (1980): 1106-1108.
- Reid, I.A. and Day, R.P. "Is there a brain renin-angiotensin system ?" Circulation Res. 41 (1977) 147 - 153.
- Ribak, C.E., Vaughn, J.E. and Saito, K. "Immunocytochemical Localization of glutamic acid decarboxylase in neuronal somata following colchicine inhibition of axonal transport" Brain Res. 140 (1978): 315 - 332.
- Rohde, B.H., Rea, M.A., Simon, J.R. and McBride, W.J. "Effects of x-irradiation induced loss of cerebellar granule cells on the synaptosomal levels and the high affinity uptake of amino acids" J. Neurochem. 32 (1979): 1431 - 1435.
- Roffer-Tarlov S., Beart, P.M., O'Gorman, S. and Sidman, R.L. "Neurochemical and morphological consequences of axon terminal degeneration in cerebellar deep nuclei of mice with inherited Purkinje cell degeneration" Brain Res. 168 (1979): 75 - 95.
- Roffer-Tarlov, S. and Sidman, R.L. "Concentration of glutamic acid in cerebellar cortex and deep nuclei of normal mice and weaver, staggers and nervous mutants" Brain Res. 142 (1978): 269-283.
- Schultzberg, M. and Hökfelt, T. "Coexistence of classical transmitters and peptides in the central and peripheral nervous systems" British Medical Bulletin 38 (1982): 309-313.
- Sernia, C. and Reid, I.A. "Release of angiotensinogen by brain in vitro" Brain Res. 192 (1980): 217 - 225.
- Severs, W.B. and Daniels-Severs, A.E. "Effects of angiotensin on the central nervous system" Pharmac. Rev. 25 (1973): 415-449.

- Siggins, G.R., Hoffer, B.J., Oliver, A.P. and Bloom, F.E. "Activation of a central noradrenergic projection to cerebellum" Nature (London) 233 (1971): 481 - 483.
- Sigh, E.A. and McGeer, E.G. "Postnatal activity of angiotensin converting enzyme in rat brain. Develop. Neurosci. 2(1979): 245 - 248.
- Sirett, N.E., Bray, J.J. and Hubbard, J.I. "Localization of immunoreactive angiotensin in the hippocampus and striatum of rat brain" Brain Res. 217 (1981): 405 - 411.
- Sirett, N.E., McLean, A.S., Bray, J.J. and Hubbard, J.I. "Distribution of angiotensin II receptors in rat brain" Brain Res. 122 (1977): 299 - 312.
- Snyder, S.H. "Brain Peptides as Neurotransmitters" Science 209 (1980): 976 - 983.
- Starke, K. "Action of angiotensin on uptake, release and metabolism of ¹⁴C-noradrenaline by isolated rabbit hearts" Eur. J. Pharmac. 14 (1971): 112 - 123.
- Suh, T.H., Wang, C.H. and Lim, R.K.S. "The effect of tetanus toxin on presynaptic inhibition in the spinal cord". Federation Proc. 25 (1965): T 931 - T 935.
- Szentagothai, J. and Arbib, M.A. Conceptual Model of Neuronal Organization pp. 125 -133. The MIT press; London, 1974.
- Tebecis, A.K. Transmitters and Identified Neurones in the Mammalian Central Nervous System pp. 86 - 115. Bristol: Scientechnica Ltd, 1974.

Thach, W.T. "Discharge of Purkinje and cerebellar nuclear neurones during rapidly alternating arm movements in the monkey".

J. Neurophysiol. 31 (1968): 785 - 797.

Wallis, L.J. and Printz, M.P. "Adrenal regulation of the regional brain angiotensinogen content". Endocrinology. 106 (1980): 337 - 342.

Yarbrough, G.G. "TRH potentiates excitatory actions of acetylcholine on cerebral cortical neurones" Nature (London) 263 (1976): 523 - 524.

Young, A.B., Oster-Granite M.L., Herndon, R.M. and Snyder, S.H. "Glutamic acid: selective depletion by viral induced granule cell loss in hamster cerebellum" Brain Res. 73 (1974): 1 - 13.

Zimmerman, B.C. "Blockade of adrenergic potentiating effect of angiotensin by 1-sar-8-ala-angiotensin II" J. Pharmacol. Exptl. Therap. 185 (1973): 486 - 489.

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