

บรรณานุกรม

- Ankarcrona, M., Dypbukt, J.M., Orrenius, S., and Nicotera, F. 1996. Calcineurin and mitochondrial function in glutamate induced neuronal cell death. Feb. Lett. 7: 321-324.
- Arend, M., and Wyllie, A. 1991. Apoptosis, the role of the endonuclease. Am. J. Pathol. 136: 593-608.
- Bertazzoni, U., and Scovassi, A.I. 1992. Correlation between poly (ADP-ribose) polymerase-activity and cellular defense mechanisms: Franceschi C., Crepaldi G., Cristofalo V.J., eds. In: Aging and cellular defense mechanisms. New York: New York Academy of Sciences. 215-216.
- Blanks, J.C., Reif-Lehrer, L., and Casper, D. 1981. Effect of monosodium glutamate on the isolated retina of the chick embryo as a function of age. Exp. Eye Res. 32: 105-124.
- Borwein, B. 1981. The retinal receptor: a description in vertebrate photoreceptor optics: Enoch J.M., and Tobey F.L. eds. Berlin Heidelberg: Springer Verlage. 11-18.
- Casper, D.S., Trelstad, R.L., and Reif-Lehrer, L. 1982. Glutamate-induced cellular injury in isolated chick embryo retina: Muller cell localization of initial effect. J. Comp. Neurol. 209: 79.
- Choi, D.W., Koh, J., and Peter, S. 1988. Pharmacology of glutamate neurotoxicity in cortical cell culture attenuation by NMDA antagonist. J. Neurosci. 8: 185-196.
- Chum, L.K., Cotman, C.M., and Anderson, A.J. 1995. A potential role for apoptosis in neurodegeneration and Alzheimer's disease. Mol. Neurobiol. 4: 19 -25.

- Cohen, A.I. 1967. An electron microscopic study of the modification by monosodium glutamate of the retinas of normal and rodless mice. Am. J. Anat. 120: 319-355.
- Coyle, J.T. 1983. Neurotoxic action of kainic acid. J. Neurochem. 41:1-11.
- _____. 1987. Kainic acid: Insights into excitatory mechanisms causing selective neuronal degeneration. In: Selective neuronal death (Ciba Foundation Symposium 126). Bock G. and O'Conner M. eds. Raven Press, New York, 186-203.
- Coyle, J.T., Bird, S.J., Evans, R. H., Gulley, R.L., Nadler, J.V., Nicklas, W.J., and Olney, J.W. 1981. Excitatory amino acids neurotoxins: Selectivity, specificity and mechanism of action. Neurosci. Res. Prog. 19: 329-427.
- Coyle, J.T., and Puttfarcken, P. 1993. Oxidative stress, glutamate, and neurodegenerative disorders. Science. 256: 689-695.
- Curtis, D.R., and Watkin, J.C. 1960. The excitatory and depression of spinal neurons by structurally-related amino acid. J. Neurochem. 6: 177-141.
- _____. 1963. Acidic amino acids with strong excitatory actions on mammalian neurons. J. Physiol. (Lond.) 166:1-14.
- Cotran, R.S., Kumar, V., and Robbins, S.L. 1989. Robbins Pathologic of disease, 4 th ed., Philadelphia: W.B. Saunders. 671-678.
- Ellis, R., Yuan, J., and Horvitz, L.T. 1991. The *Celegans* cell death gene *ced-3* encodes a protein to 1 β -converting enzyme. Annu. Rev. Cell Biol. 75: 641-652.
- Gail, D., Zeevalk, G.D., and William, J. 1990. Chemically induced hypoglycemia and anoxia: relationship to glutamate receptor-mediated toxicity in retina. J. Pharmacol. Exp. 253: 1285-1292.

- Goldberg, M.P., Weiss, J.H., Pham, P., and Choi, D.W. 1987. NMDA receptors mediate hypoxic neuronal injury in cortical culture. J. Pharmacol. Exp. 243: 784-791.
- Halliwell, B., and Gutteridge, D. 1984. Induction of endonuclease-mediated apoptosis. Proc. Natl. Acad. Sci. 89: 7703-7707.
- Hansson, H.A. 1970. Scanning electron microscopic studies on the long term effect of sodium glutamate on the rat retina. Virchows Arch. Abt. 357-367.
- Hartley, D.M., Neve, K.L., Bryan, J., and Geller, A.L. 1996. Expression of the calcium-binding protein, parvalbumin, in cultured cortical neurons using a HSV-1 vector system enhances NMDA neurotoxicity. Brain Res. Mol. 40: 285-296.
- Jennings, E. 1995. Folic acid as a cancer-preventing agent. Med. Hypotheses 45: 297-303.
- Karlsen, R.L., and Fonnum, F. 1976. The toxic effect of sodium glutamate on rat retina. J. Neurochem. 27: 1437-1441.
- Limbrick, J.R., Churm, S.B., Sombati, S., and Delorenzo, R.J. 1995. Inability to restore resting intracellular calcium levels as an early indicator of delayed neuronal cell death. Brain Res. 4: 145-156.
- Lipton, K., and Kalil, J. 1995. The response of neurons to ischemia involve neuronal death. Neuro. Note. 2: 2-6.
- Low, C.U. 1970. Monosodium glutamate : Specific brain lesion questioned. Science. 167: 1016.
- Lucus, D.R., and Newhouse, J.P. 1957. The toxic effect of sodium L- glutamate on the inner layer of the retina. Arch. Ophthalmol. 58: 193-204.
- MacDermott, A.B., and Dale, N. 1987. Receptor, ion channels and synaptic potentials underlying actions of excitatory amino acid. Trends Neurosci. 10: 280-284.

- McGeer, E.G., and McGeer, P.L. 1978. Some factors influencing the neurotoxicity of intrastriatal injections of kainic acid. Neurochem. Res. 3: 501-517.
- Mosinger, J.L., Price, M.T., Bai, H.Y., Xiao, H., Wozniak, D.F., and Olney, J.W. 1991. Blockade of both NMDA and non-NMDA receptors is required for optimal protection against ischaemic neuronal degeneration in the *in vivo* mammalian retina. Exp. Neurol. 113: 10-17.
- Nakanishi, S., Bessho, Y., and Nawa, H. 1992. Glutamate and quisqualate regulate express of metabotropic glutamate receptor mRNA in culture cerebellar granule cell cultures. J. Neurochem. 1: 253-259.
- Nicoletti, F., Bruno, V., Copani, A., Lasabona, G., and Knopfel, T. 1996. Metabotropic glutamate receptors: A new target for the therapy of neurodegenerative disorder? TINS. 7: 267-271.
- Park, C.K., Nehel, D.G., Graham, D.I., Teasdale, G.M., and McCulloch, J. 1988. The glutamate antagonist MK-801 reduces focal ischemic brain damage in the rat. Ann. Neurol. 24: 543-551.
- Pin, F., and Duvoisin, K. 1995. Glutamate receptors involvement neuronal death. Neuropharmacol. 33: 715-717.
- Olney, J.W. 1969. Brain lesions, obesity and other disturbances in mice treated with monosodium glutamate. Science. 164: 719-721.
- _____. 1971. Glutamate-induced neuronal necrosis in the infant mouse hypothalamus and electron microscopic study. J. Neuropathol. Exp. Neurol. 30: 75-90.
- _____. 1982. Excitotoxic mechanisms of neurotoxin. Exp. Clin. Neuro. 279-294.
- Orrenius, S., and Nicotera, P. 1987. On the role of calcium in chemical toxicity. Arch. Toxicol. (Suppl.) 11:11-19.

- Reif-Lehrer, L., Bergenthal, J., and Hanninen, L. 1975. Effect of monosodium glutamate on chick embryo. Retina in culture. Invest. Ophthalmol. 14: 114-124.
- Rothman, S.M., and Olney, J.W. 1987. Excitotoxicity and the NMDA receptor. Trends Neurosci. 10: 299-302.
- Rubin, L.L. 1997. Neuronal apoptosis : Overview of initiators and effectors. 20th Summer School for Brain Research, Amsterdam, August 25-29, 76-77.
- Said, S.I., Berisha, H.I., and Pakbaz, H. 1996. Excitotoxicity in the lung: NMDA-induced, nitric oxide-dependent, pulmonary edema is attenuate by vasoactive intestinal peptide and by inhibitors of poly(ADP-ribose) polymerase. Proc. Natl. Acad. Sci. USA. 93: 4688-4692.
- Sambrook, J., Fritsch, E.F., and Maniatis, J. 1989. Molecular cloning In A Laboratory Manual. 2nd Edition. Cold Spring Harbor Laboratory Press. B:11-23, E: 1-11.
- Sattayasai, J., and Ehrlich, D. 1986. Folic acid protect chick retinal neurons against the neurotoxin action of excitatory amino acids. Exp. Eye Res. 44: 523-535.
- _____. 1990. The neurotoxic effects of kainic acid on photoreceptors and retinal pigment epithelium. In Amino Acid: chemistry, biology and medicine. Lubec G. and Rosenthal G.A. eds. Leiden, Escom. 410-414.
- Sattayasai, J., Zappia, J. and Ehrlich, D. 1989. Differential effects of EAAs on photoreceptors of the chick retina. Vis. Neurosci. 2: 237-245.
- Scarpelli, D.G., Chiga, M. 1985. Cell injury and errors of metabolism: Kaissanae, J.M. ed. Anderson's Pathology, 8th ed. Saint Louis: C.V. Mosby. 341-347.
- Schwartzman, R., and John, A. 1990. Apoptosis: The biochemistry and molecular biology of programmed cell death. Endo. 2: 133-151.
- Shinozaki, H., and Shibuya, I. 1974. A new potent excitant, quisqualic: Effect on crayfish neuromuscular junction. Neuropharmacol. 13: 665-672.