ESTRUTURA CURRICULAR DAS DISCIPLINAS
DO PROGRMA DE PG EM CB (FARMACOLOGIA) DO IBB/UNESP

DISCIPLINA: FARMACOLOGIA CELULAR E MOLECULAR DA JUNÇÃO NEUROMUSCULAR

Nº DE CRÉDITOS: 4

DOCENTE RESPONSÁVEL: Dra. Márcia Gallacci

EMENTA : Formar docentes e pesquisadores capazes de planejar e desenvolver pesquisa em farmacologia da junção mioneural e para atingir este objetivo abordará aspectos bioquímicos, eletrofisiológicos e farmacológicos, referentes às drogas agonistas e antagonistas dos receptores sinápticos colinérgicos..

BIBLIOGRAFIA:

ALBUQUERQUE, E.X.; RASH, J.E.; MAYER, R.F.; SATTERFIELD, J.R. An electrophysiological and morphological study of the neuromuscular junction in patients with miasthenia gravis. Expl. Neurol., v. 51, p. 536-563, 1976.

BOWMAN, W.C.; PRIOR, C.; MARSHALL, I.G. Presynaptic receptors in the neuromuscular junction. Ann. N.Y. Acad. Sci, v. 604, p. 69-81, 1990.

BOWMAN, W.C.; RAND, M.J. Striated muscle and neuromuscular transmission. In: Textbook of Pharmacology, 2a. ed.. Oxford: Blackwell Scientific Publications, pp. 17.1-17.56, 1980.

CECCARELLI, B.; HURLBUT, W.P. Vesicle hipothesis of the release of quanta of acetylcholine. Physiol. Rev., v. 60, p. 397-442, 1980.

CHANGEUX, J.P.; DEVILLERS-THIÉRI, A.; CHEMOUILLI, P. Acetylcholine receptor: an allosteric protein. Science, v. 225, p.1335-1345, 1984.

CONTI-TRONCONI, B.M.; RAFTERY, M.A. The nicotinic cholinergic receptor: correlation of molecular structure with functional properties. Ann. Rev. Biochem., v. 51, p. 491-530, 1982.

FATT, P.; KATZ, B. An analysis of the end plate-potential recorded with an intracellular and electrode. J. Physiol., Lond, v. 115, p. 320-370, 1951.

FLETCHER, P.; FORRESTER, T. The effect of curare on the release of acetylcholine from mammalian motor nerve terminals and an estimate of quantum content. J. Physiol., Lond., v. 251, p.131-144, 1975.

GALLACCI, M.; OLIVEIRA, A.C. Mechanisms of hexamethonium-induced tetanic fade in the isolated rat muscle. Arch. int. Pharmacodyn., v. 305, p. 111-22, 1991.

GALLACCI, M.; OLIVEIRA, A.C. Pre-and postsynaptic mechanisms involved in tetanic fade induced by pancuronium in the isolated rat muscle. Pharmacology, v. 49, p.265-270, 1994.

GALLACCI, M.; NUNES, E.C.; MOREIRA, E.G.; NASCIMENTO, N.; ROGERO, J.R.; VASSILIEFF, V.S. Reduction of crotoxin-induced neuromuscular blockade by gamma-radiation. Toxicon, v. 36(6), p. 941-945, 1998.

KATZ, B.; MILEDI, R. Transmitter leakage from motor nerve endings. Proc. R. Soc. Lond., Ser. B, v. 196, p.56-72, 1977.

KUFFLER, S.W.; YOSHIKAMI, D. The number of transmitter molecules in a quantum: an estimate from iontophoretic application of acetylcholine at the neuromuscular synapse. J. Physiol., Lond., v. 251, p. 465-482, 1975.

MAGAZANIK, L.M.; VYSKOCIL, F. Desenseitization at the motor endplate. In Rang, H.P. (ed.), Drug receptors. London: MacMillan, p. 105-119, 1973.

NEHER, E.; SACKMANN, B. Single channel currents recorded from membrane of denervated frog muscle fibers. Nature, Lond. v. 260, p. 799-802, 1976.

OLIVEIRA, A.C. & GALLACCI, M. Transmissão neuromuscular esquelética. Aspectos morfológicos, fisiológicos e farmacológicos. In: Miastenia Grave. São Paulo: Ed. J.L. Assis, p. 121-159, 1990.

RANG, H.P.; RITTER, J.M. The relationship between desensibilization and the metaphilic effect at cholinergic receptors. Mol. Pharmacol., v. 6, p.3830390, 1970.
WESSER, I. Acetylcholine at motor nerve: storage, release and presynaptic modulation by autoreceptors. Int. Rev. Neurobiol., v. 34, p.283-384, 1992.