



EMENTA DE DISCIPLINA

EFF713 – Integração Sensório-Motora: Mecanismos e Processos

Nível: Mestrado e Doutorado

Carga Horária: 45 h/aula – 3 créditos

Ementa:

Estudo centrado nos mecanismos e hipóteses que explicam os processos de integração sensório-motora (ISM) no controle e aprendizagem de padrões motores.

Bibliografia:

- ANDRES, F. *et al.*. Functional coupling of human cortical sensorimotor areas during bimanual skill acquisition. **Brain**. v.122, pp. 855-870, 1999.
- BOWER, T. **The evolution of sensory systems**. In: Perception: Essays in Honor of James J. Gibson, R. G. Macleod & H. L. Pick, Jr. (eds.). Ithaca: Cornell University Press., 1974.
- CAAN, W. *et al.*. Interaction of visual and auditory inputs to cerebellar Purkinje cells in cat posterior vermis. **J Physiology**. n. 6, v. 1, pp.20-21, 1976.
- GANDOLFO, F., LI, C., BENDA, B., SCHIOPPA, C. & BIZZI, E. Cortical correlates of learning in monkeys adapting to a new dynamical environment. **Proc Natl Acad Sci**. v.29, pp.2259-2263, 2000.
- GIBSON, J. **The perception of the visual world**. Boston: Houghton Mifflin. 1950.
- GLICKSTEIN, M. & YEO, C. The cerebellum and motor learning. **J Cogn Neurosci**., v.2, pp.69-80, 1990.
- GOULD, H. Body surface maps in the somatosensory cortex of rabbit, **J. Comp. Neurol**. v.243, pp.207–233, 1986.
- HEBB, D. **The Organization of Behavior**, Wiley, New York, 1949.
- HUMPREY, D. Representation of movements and muscles within the primate precentral motor cortex: historical and current perspectives, **Fed. Proc**. v.45, pp.2687–2699, 1986.
- KELSO, J. **Dynamic Patterns** - The self-organization of brain and behavior. London: A Bradford book, 1955..
- LIEPERT, J., TERBORG, C., WEILLER, C. Motor plasticity induced by synchronized thumb and foot movements, **Exp. Brain Res**. v.125, pp.435–439, 1999.
- LUNDY-EKMAN, L. **Neuroscience: Fundamentals for Rehabilitation**. W.B. Saunders Company: Philadelphia, PA, 1998..
- PFURTSCHELLER, G. & NEUPER, C. Motor imagery activates primary sensorimotor area in humans, **Neurosci. Lett**. v.239, pp. 65–68, 1997.
- PFURTSCHELLER, G., NEUPER, C., BRUNER, C., DA SILVA, F. Beta rebound after different types of motor imagery in man, **Neurosci. Lett**. v.378, pp.156–159, 2005.
- PFURTSCHELLER, G., PREGENZER, M., NEUPER, C. Visualization of sensorimotor areas involved in preparation for hand movement based on classification and central rhythms in single EEG trials in man, **Neurosci. Lett**. v.181, pp.43–46, 1994.
- SZURHAJ, W., DERAMBURE, P., LABYT, E., CASSIM, F., BOURRIEZ, J., ISNARD, J., GUIEU, J., MAUGUIERE, F. Basic mechanisms of central rhythms reactivity to preparation and execution of a voluntary movement: a stereoelectroencephalographic study, **Clin. Neurophysiol**. v.114, pp.107–119, 2003.