

ROY WISE, Ph.D. (McGILL)

Research Interests

I am interested in the brain mechanisms of motivation. Current attention is focused on the motivational functions of the dopamine-containing cells of the brain and their synaptic inputs and outputs. Much of our work involves dual-probe microdialysis studies of connectivity in the brain or single-probe microdialysis studies of the neurochemical correlates of drug self administration or intracranial self-stimulation (Supported by NSERC, MRC, U.S. National Institute on Drug Abuse, FCAR).

Recent Publications

- Wise, R.A., Newton, P., Leeb, K., Burnette, B., Pocock, D., Justice, J.B. (1995). Fluctuations in nucleus accumbens dopamine concentration during intravenous cocaine self administration in rats. *Psychopharmacology*, 120, 10-20.
- Carlezon, W.A., Jr., & Wise, R.A. (1996). Rewarding actions of phencyclidine (PCP) and related drugs in nucleus accumbens shell and frontal cortex. *J. Neurosci*, 16, 3112-3122.

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