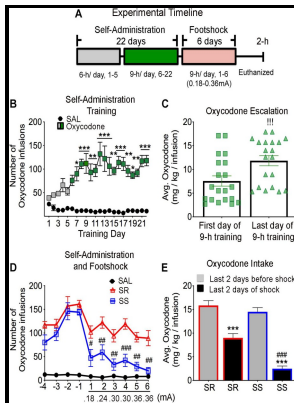


Study of the differential effects of opioids on single neurones in rat brain.

University of Birmingham - Single neurone studies of opioid tolerance and dependence at the ventrobasal thalamic level in an experimental model of clinical pain, the arthritic rat



Description: -

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Lesioning of the nucleus basalis of Meynert has differential effects on mu, delta and kappa opioid receptor binding in rat brain: a quantitative autoradiographic study

A simple perfusion chamber for the study of nervous tissue slices in vitro. Supporting this, inactivation of the IL with muscimol produced differential effects on opioid choice versus relapse. Effects of Morphine on Dendritic Spinogenesis During Development Dendritic spines represent primary postsynaptic sites of excitatory synaptic inputs to pyramidal neurons, and it is now well established that studying densities and morphology of these structures provide us valuable information on morphofunctional characteristics of neural networks ;.

Is excitation by enkephalins of hippocampal neurones in the rat due to presynaptic facilitation or to disinhibition?

This rank order was the same as that for the proportion of neurons in which each of the opioids inhibited excitatory transmission by more than 5%. Images were acquired with an Olympus slide scanner microscope VS120; 2x or 10x air objective; Olympus, Center Valley, PA. However, systemically applied opioids may produce antinociception via both supraspinal and spinal mechanisms.

A common limiter circuit for opioid choice and relapse identified in a rodent addiction model

A quantitative electron microscopic, histochemical and radioautographic study. Injectors extended 3 mm beyond the cannula. Activation of hippocampal neurons by mossy fiber stimulation in thin brain sections in vitro.

Effects of Morphine on the Differentiation and Survival of Developing Pyramidal Neurons During the Brain Growth Spurt

Similarly, low doses of intrathecal μ agonist inhibited C fiber—mediated responses more potently than A δ fiber—mediated responses. The aim of the current study was to examine the presynaptic effects of μ -, δ -, and κ -opioid receptor agonists on excitatory synaptic transmission, particularly A δ and C fiber—mediated transmission, to SG neurons in rat spinal cord slices. Iontophoretic post hoc single cell injections.

Single neurone studies of opioid tolerance and dependence at the ventrobasal thalamic level in an experimental model of clinical pain, the arthritic rat

The epileptogenic spectrum of opiate agonists. The SNL-induced changes were complex and different between the genes; between the dorsal and ventral spinal domains; and between the left and right sides of the spinal cord. Spine density and head diameter values were determined from four dendritic segments per animal.

Lesioning of the nucleus basalis of Meynert has differential effects on mu, delta and kappa opioid receptor binding in rat brain: a quantitative autoradiographic study

Further changes were seen at P21 compared with P28, even though these rats were weaned. Repeated daily administration of morphine does not impair dendritic growth during the later phase of the brain growth spurt.

Electrophysiological studies on the postnatal development of the spinal antinociceptive effects of the delta opioid receptor agonist DPDPE in the rat

PL prelinbic cortex, fmi forceps minor of the corpus callosum, ac anterior commissure, arrows indicate anatomical orientation along with dorsoventral DV and mediolateral ML axes. The actions of noradrenaline on neurones of the rat substantia gelatinosa in vitro. C fiber-evoked EPSCs were inhibited to a greater extent than Adelta fiber-evoked EPSCs.

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