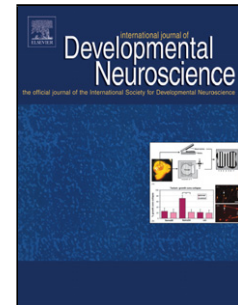


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The effect of selective opioid receptor agonists and antagonists on epileptiform activity in morphine-dependent infant mice hippocampal slices

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HIGHLIGHTS

- Excitatory effect of opiate on epileptiform activity is mediated through K receptor
- Inhibitory effect of opiate on epileptiform activity is mediated via the μ receptor
- The pattern of effect is similar in normal and morphine-dependent slices
- But the intensity of the effect is significantly stronger in normal mice
- Exposure to morphine in neonatal period alters brain susceptibility to seizure later in life

Abstract

Hippocampal slices of mouse brain were used to estimate how selective agonist and antagonist of opioid receptors alter Low-Mg⁺² artificial cerebrospinal fluid (LM-ACSF)-induced epileptiform

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