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Research Details :

Research Title	:	*Effect of cannabinoids on synaptic transmission in the rat hippocampal slice is temperature-dependen* *Effect of cannabinoids on synaptic transmission in the rat hippocampal slice is temperature-dependen*
Descriptipn	:	We have previously reported that the synthetic cannabinoid R-(+)-[2,3-dihydro-5-methyl-3-[(morpholinyl)methyl]pyrrolo[1,2,3-de]-1,4- benzoxazin-yl]-(1-naphthalenyl)methanone mesylate (WIN55,212-2) causes a selective inhibition of paired pulse depression of population spikes recorded from the CA1 region of rat hippocampal slices maintained at 28–30 jC. We now show that this effect is highly temperaturedependent and that WIN55,212-2 actually increases paired pulse depression of population spikes recorded from slices maintained at 35 jC. This temperature dependence was found to correlate with the effects of the known g-amino butyric acid (GABA)-uptake inhibitors, nipecotic acid and guvacine, which were without effect at 28–30 jC, but increased paired pulse depression at 35 jC. The results show that the effects of cannabinoids on synaptic transmission in the hippocampal slice are highly temperature-dependent and it is suggested that this is due to the presence of increased GABA uptake at higher temperatures. D 2002 Elsevier Science B.V. All rights reserved
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Researchers :

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Attatchments :

File Name	Type	Description
temperature paper.pdf	pdf	مشاهدة المقالة العلمية كاملة