

论文

GABA<sub>B</sub>受体拮抗剂对小鼠学习记忆的促进作用

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摘要:

用一次性被动回避性条件反射方法,观察了γ-氨基丁酸(GABA<sub>B</sub>)受体(GB-R)激动剂巴氯芬(baclofen)及GK-R受体拮抗剂CGP<sub>35348</sub>和CGP<sub>36742</sub>对小鼠学习和记忆获得、巩固及再现的影响;结果表明,GR-R拮抗剂可显著改善巴氯芬所致学习和记忆获得障碍,并能显著改善巴氯芬、亚硝酸钠所致的记忆巩固障碍及巴氯芬、乙醇所致的记忆再现障碍,提示GB-R拮抗剂有望成为新型治疗老年性痴呆的药物。

关键词: GABA<sub>B</sub>受体拮抗剂CGP<sub>35348</sub>和CGP<sub>36742</sub> 学习 记忆

IMPROVEMENT OF LEARNING AND MEMORY FUNCTIONS BY GABAB RECEPTOR ANTAGONISTS IN MICE

ZF Yu;BR Hu and;GJ Cheng

Abstract:

In one trial passive avoidance response in mice,the effects of γ-aminobutyric acid(GABA)<sub>B</sub> receptor agonist baclofen and antagonist CGP<sub>35348</sub> and CGP<sub>36742</sub> on acquisition,consolidation and retrieval of memory were observed.The results showed that the antagonists couldsignificantly promote the acquisition impairment induced by baclofen, the consolidation impainmentinduced by baclofen and NaNO<sub>2</sub>,and the retrieval impairment induced by baclofen and 30% alcohol.These results suggest that the GABA Breceptor antagonists may become a novel type of drug for thetreatment of Alzheimer'sdisease.

Keywords: Learning Memory Present address:state Key Laboatory of Medical Neurobiology,Shanghai Medical University,Shanghai 200032,P.R.China. γ-Aminobutyric acid<sub>B</sub> receptor antagonist

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