

论著

## 人参皂苷Rb<sub>1</sub>和Rd对不同类型记忆障碍模型小鼠学习记忆功能的影响

陈声武, 王丽娟, 王岩, 王本祥\*

(长春中医学院新药研究中心, 吉林 长春 130021)

收稿日期 2000-9-29 修回日期 网络版发布日期 2009-2-26 接受日期 2001-1-21

**摘要** 分别以东莨菪碱, 环己米特和乙醇致小鼠获得性, 巩固性和再现性记忆障碍, 用跳台实验观察人参皂苷Rb<sub>1</sub>和Rd对学习记忆功能的影响. 结果表明, 人参皂苷Rb<sub>1</sub>(100, 50 mg·kg<sup>-1</sup>, ig)和人参皂苷Rd(20, 10 mg·kg<sup>-1</sup>, ip)每天上午9:00给药1次, 连续给药7 d, 对东莨菪碱和环己米特所致的小鼠获得性及巩固性记忆障碍均具有明显的改善作用, 而对乙醇所致的小鼠记忆再现障碍则无明显影响. 结果表明, 人参皂苷Rb<sub>1</sub>(ig)和Rd(ip)对小鼠学习记忆功能有增强作用.

**关键词** [人参皂苷](#), [人参](#) [人参皂苷Rb1](#) [人参皂苷Rd](#) [记忆障碍](#) [行为, 动物](#)

**分类号** [R964](#)

## Effects of ginsenoside Rb<sub>1</sub> and Rd on learning and memory function of mice

CHEN Sheng-Wu, WANG Li-Juan, WANG Yan, WANG Ben-Xiang\*

(Research Centre of New Drug, Changchun College of Traditional Chinese Medicine, Changchun 130021, China)

### Abstract

To study the effects of ginsenoside Rb<sub>1</sub> and Rd on learning and memory function of mice with dysmnesia induced by various drugs, the dysmnesia models of memory-acquisition, memory-retention and memory-retrieval were made with scopolamine (1.5 mg·kg<sup>-1</sup>, ip), cycloheximide (120 mg·kg<sup>-1</sup>, ip) and 30% ethanol (10 mL·kg<sup>-1</sup>, ig), respectively. The learning and memory function was determined by step down test. The results showed that ginsenoside Rb<sub>1</sub>(100 and 50 mg·kg<sup>-1</sup>·d<sup>-1</sup>, ig for 7 d) and Rd (20 and 10 mg·kg<sup>-1</sup>·d<sup>-1</sup>, ip for 7 d) obviously alleviated dysmnesia induced by scopolamine and cycloheximide, but both of them have no effects on dysmnesia induced by ethanol. It is suggested that ginsenoside Rd and Rb<sub>1</sub> have preventive effect for dysmnesia.

**Key words** [ginsenoside](#) [ginseng](#) [ginsenoside Rb1](#) [ginsenoside Rd](#) [memory disorders](#) [behavior animal](#)

DOI:

通讯作者 王本祥 [cctcmwbx@public.cc.jl.cn](mailto:cctcmwbx@public.cc.jl.cn)

### 扩展功能

#### 本文信息

- ▶ [Supporting info](#)
- ▶ [PDF\(234KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [参考文献](#)

#### 服务与反馈

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [加入引用管理器](#)
- ▶ [复制索引](#)
- ▶ [Email Alert](#)
- ▶ [文章反馈](#)
- ▶ [浏览反馈信息](#)

#### 相关信息

- ▶ 本刊中 [包含“人参皂苷, 人参”的相关文章](#)
- ▶ 本文作者相关文章

- [陈声武](#)
- [王丽娟](#)
- [王岩](#)
- [王本祥](#)