

论文

人参皂甙Rb<sub>1</sub>对应激性性行为缺损的保护作用及机制

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摘要:

用悬吊应激模型,小鼠连续应激小鼠10d,每天应激一次,并循序增加应激强度,每次应激前30min,ip人参皂甙Rb<sub>1</sub>,观察人参皂甙Rb<sub>1</sub>对应激性性行为低下的保护作用。结果表明,应激模型组小鼠性行为明显减少,甚至达到缺损的程度,同时血浆睾酮水平明显降低,而Rb<sub>1</sub>各剂量组(2.5,5,10mg·kg<sup>-1</sup>)对应激引起的性行为低下及血浆睾酮水平下降均有明显的对抗作用。提示人参皂甙Rb<sub>1</sub>对应激性性行为低下有保护作用,其机制可能与Rb<sub>1</sub>抑制应激动物血浆皮质酮升高和提高睾酮水平有关。

关键词: 慢性应激 性行为 睾酮 人参皂甙Rb<sub>1</sub>

EFFECT OF GINSENOSE Rb<sub>1</sub> ON REPEATED STRESS-INDUCED SEXUAL DEFICIENCIES IN MALE MICE

Lian Xiaoyuan and Zhang Juntian

Abstract:

The effect of ginsenoside Rb<sub>1</sub> has been studied on sexual deficiencies induced by repeated hanging stress. Male mice were stressed by hanging once daily(9:00 am~2:00 pm) for 10 days(1~3 day hung for 2 h, 4~6 day hung for 3 h, 7~9 day hung for 4 h, 10~11 day hung for 5 h). On day 10, they were exposed to female mice treated with estradiol and progesterone and their sexual behaviors (licking, mounting, mating) were assessed at 7:00~9:00 pm. The repeated hanging stress was found to reduce sexual behaviors and decrease plasma testosterone level in mice. Treatments with ginsenoside Rb<sub>1</sub> (2.5,5,10 mg·kg<sup>-1</sup>, ip) 30 min before each stress prevented the repeated stress induced sexual deficiencies and raised plasma testosterone level. The mechanism of the protective action of ginsenoside Rb<sub>1</sub> may be attributed to its action in maintaining normal plasma testosterone level.

Keywords: Sexual behaviors Plasma testosterone Ginsenoside Rb<sub>1</sub> Repeated stress

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