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عنوان مقاله:

The effects of cholinergic hypofunction on hippocampal corticosterone and BDNF in rats

محل انتشار:

هشتمین کنگره علوم اعصاب و پایه و بالینی (سال: 1398)

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خلاصه مقاله:

Background and Aim : The evidence linking between stress and Alzheimer’s disease is growing. Some evidence implies that stress might be contribute to neurodegeneration by counteracting the brain-derived neurotrophic factor (BDNF). The present study was designed to investigate the NBM lesion effects on hippocampal corticosterone and BDNF levels and the correlations of them in ratsMethods : For this purpose, eighteen male Wistar rats were randomly assigned to control, sham, and NBM-lesion groups. Lesion was induced by bilateral ibotenic acid injections (5 µg/µl in each side) and BDNF and corticoestron levels in the hippocampus were measured 21 days after the injectionsResults : Results showed that BDNF concentration decreased whereas corticosterone level increased in the hippocampus, showing the significant and negative correlations of the hippocampal BDNF levels with correlations level after neurodegeneration in NBM lesion rats.Conclusion : The negative correlation between hippocampal corticosterone and BDNF following NBM- lesion suggests that these factors might play roles in cognitive dysfunction in cholinergic dysfunction; hence, they merit investigation and consideration for designing improved cognition.

کلمات کلیدی:

Nucleus Basalis Magnocellularis, Hippocampus, Corticosterone, BDNF

لینک ثابت مقاله در پایگاه سیویلیکا:

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