

Cite this as: Jian-xiang LIU, Min-ying ZHU, Ci-yuan FENG, Hai-bin DING, Ying ZHAN, Zhan ZHAO, Yue-min DING, 2015. Bamboo leaf extract improves spatial learning ability in a rat model with senile dementia. *Journal of Zhejiang University-Science B (Biomedicine & Biotechnology)*, **16**(7):593-601. [doi:10.1631/jzus.B1400249]

Bamboo leaf extract improves spatial learning ability in a rat model with senile dementia

Key words: Bamboo leaf extract, dementia, Alzheimer's disease, Neurotransmitter



Research Aims

Our study mainly focus on the effect of bamboo leaf extract on a rat model with senile dementia.



Experimental Protocol

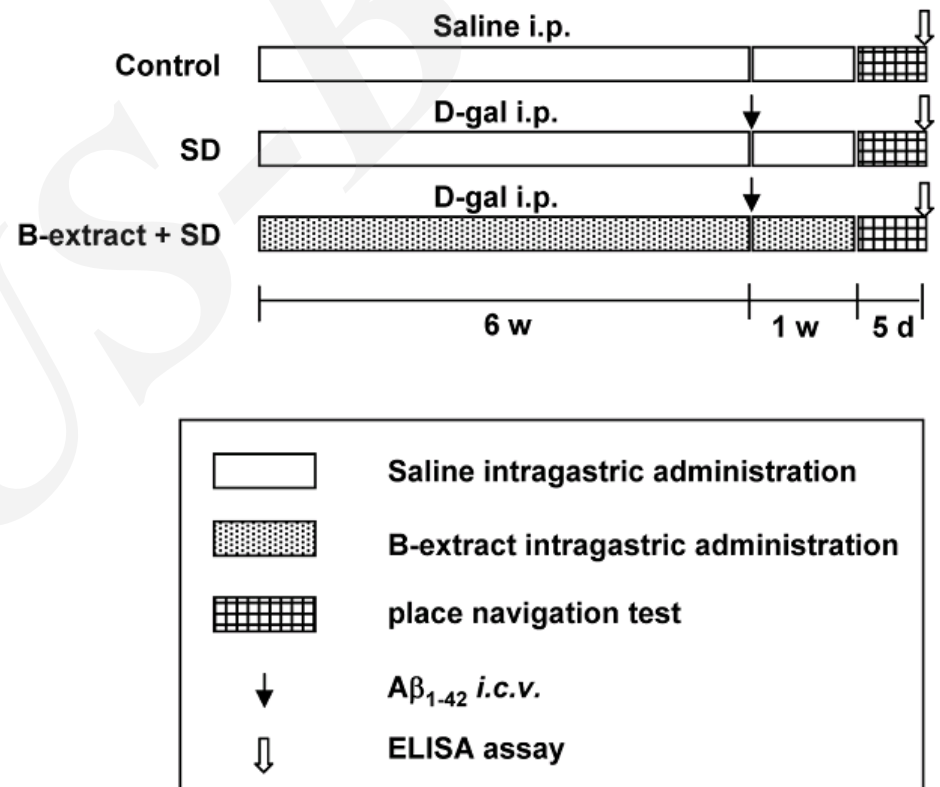


Figure 1

Main Findings

- B-extract improved spatial learning ability of the dementia rats.
- Treatment with B-extract significantly inhibited the enzyme activity of AChE and MAO, and raised the level of ACh, E and DA in the hippocampus of the dementia rats.
- B-extract elevated the level of GABA, but reduced the level of glutamate in the brain of the dementia rats.

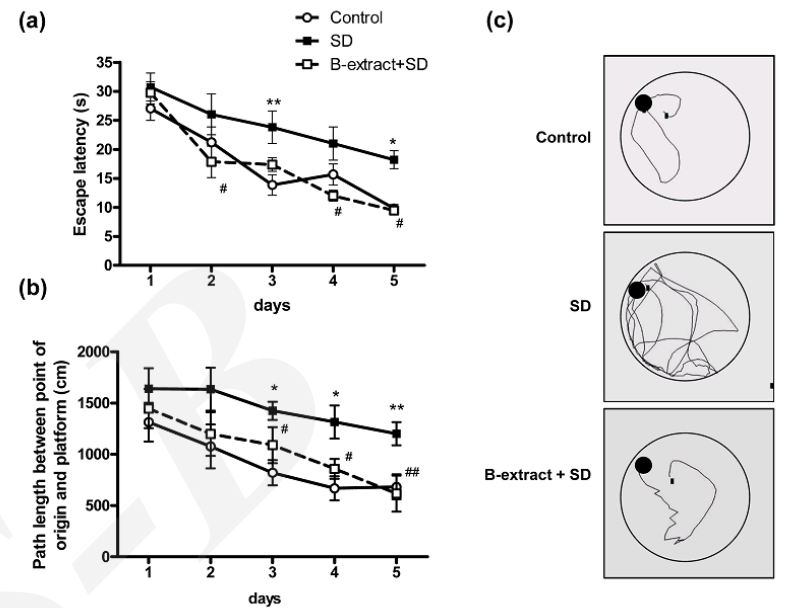


Figure 2

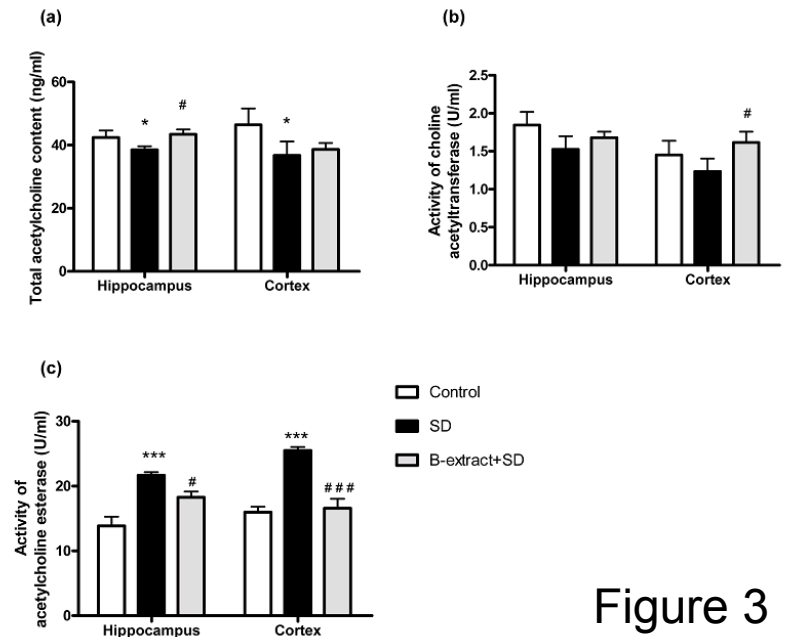


Figure 3

Conclusions

Bamboo leaf extract might be a potential drug in treating impairment of spatial memory in dementia rats by regulating the central neurotransmitter function.

