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# 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*

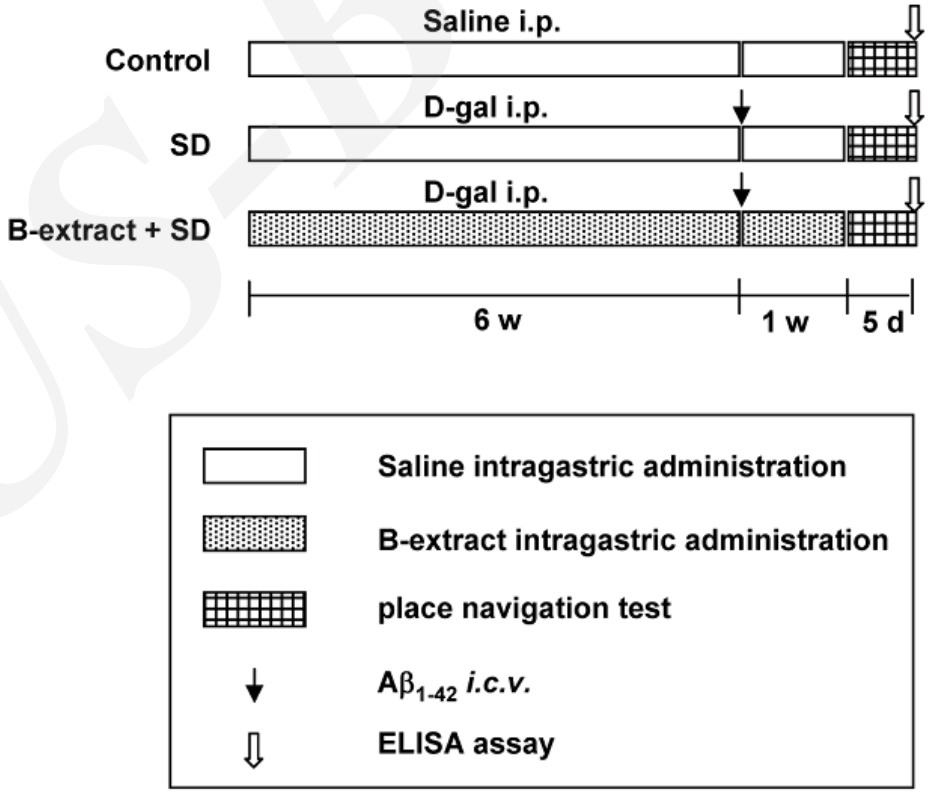



Figure 1

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# 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.

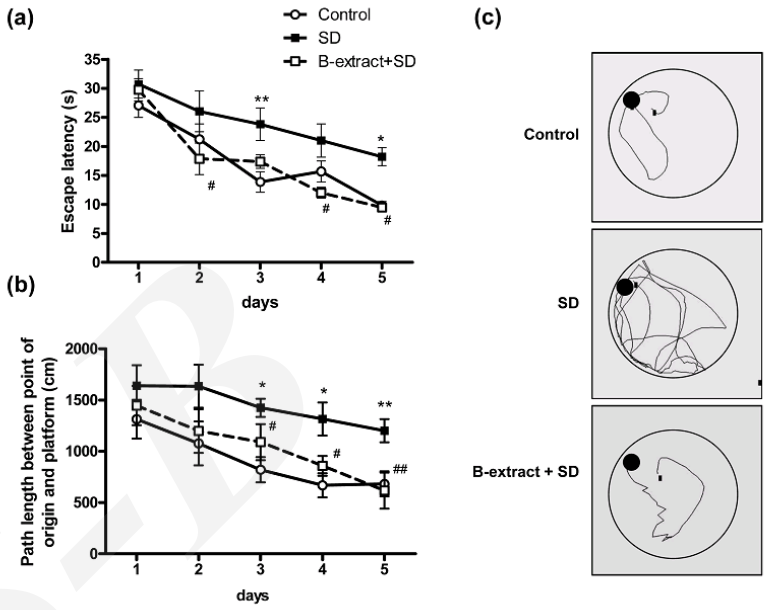



Figure 2

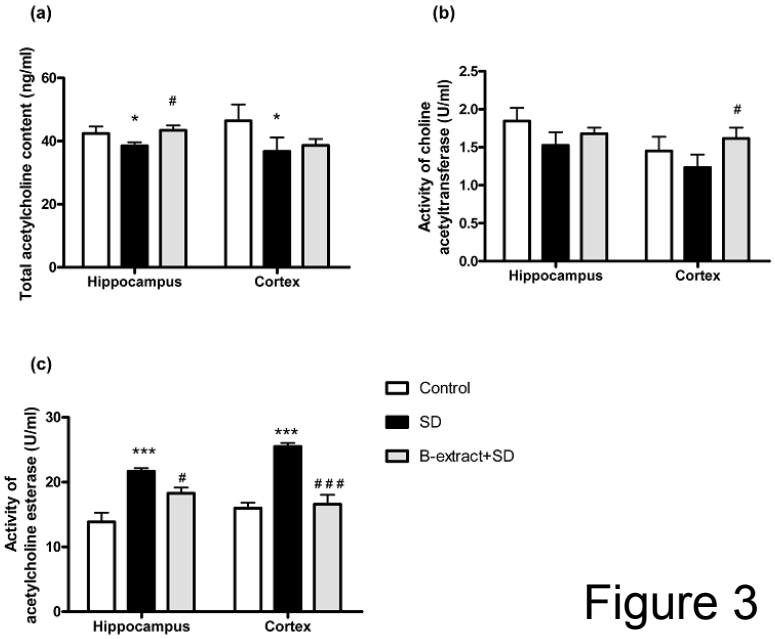



Figure 3

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# Conclusions

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



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