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Advancement of herbal drug therapy for cognitive impairment in animal model**Noorul Hasan**

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Nootropics drugs are also called as smart drugs. They are reported to improve mental function such as cognition, memory, intelligence, motivation, attention and concentration. They work by altering the availability of neurochemicals, by improving the brains oxygen supply or by stimulating nerve growth. Some neurodegenerative disorder affects older individuals. Evidence supports the use of Ginkgo biloba, Huperzine A, Galantamine, Melissa officinalis and Salvia officinalis for Alzheimer's disease. Plantago ovate, Azadirachta indica, Bacopa monnieri for Parkinsonism disease. St. John's wort, Lavender, Bryophyllum Pinnatum, Clitoria ternatea and saffron for depression; Passion flower and Kava, for anxiety disorders; Valerian and English Lavender for sleep disorders; Butterbur root for a migraine; Withania somnifera possess both anti-stress as well as nootropic activity. The ethanolic extract of Nelumbo nucifera Gaertner seeds shows nootropic activity on conditional avoidance response, Morris water maze for spatial learning, but it weakly acts on acetylcholinesterase enzyme inhibitory activity. In *in vivo* methods of the inhibitory passive avoidance, the test was carried on animals to test the learning and memory capacity of the animal by suppressing a behavior.

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