SUMMARY AND CONCLUSION

The present work was intended to explore the effect of *Moringa oleifera* in Alzheimer’s Disease.

(1) Studies on RAM showed that chronic treatment of *Moringa oleifera* leaf extract at the dose of 250 mg/kg significantly improved the RAM performance.

(2) Studies on ChAT and AchE enzymes Alzheimer rat models showed that pre-treatment with *Moringa oleifera* in Colchicine as well as hypobaric hypoxic group showed significant improvement in ChAT activity and thereby increased Ach level in hippocampus and cerebral cortex.

(3) Histomorphologically, it was observed that in MO treated Alzheimer models there was presence of neurons in hippocampal areas. This is correlated with less accumulation of APP protein as plaque deposits and also neurofibrillary tangles.

(4) Apart from cholinergic system the monoamines level were altered distinctly in various brain regions in colchicine and in hypobaric hypoxic group. After MO pretreatment the impairment of monoamine level was significantly less in various brain regions associated with memory loss.