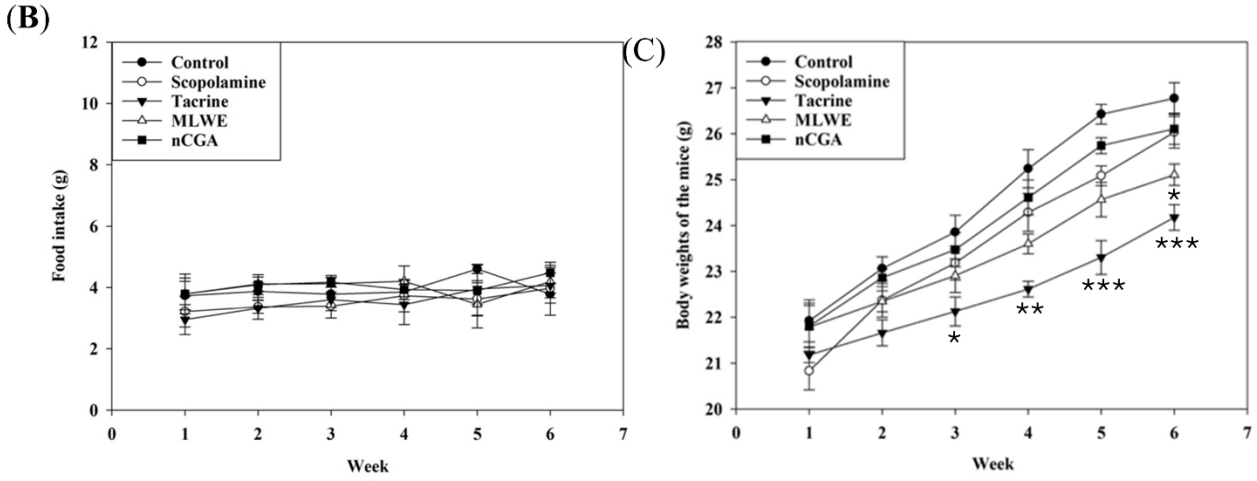
Supplementary Fig. 1.

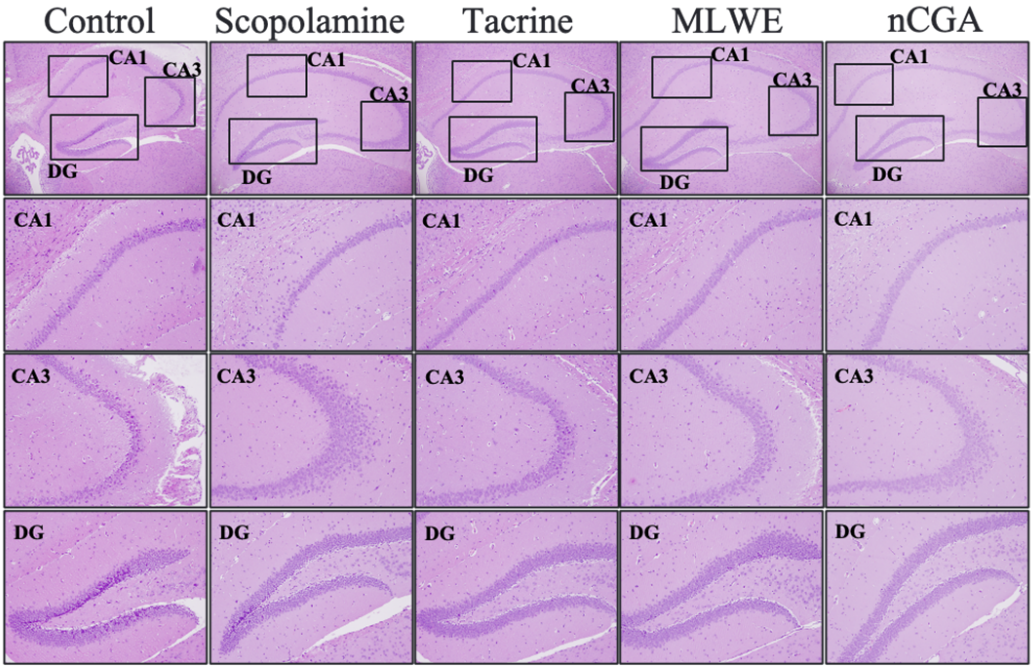
(A)

| | Control | Scopolamine | Tacrine | MLWE | nCGA |
|---|---|---|---|---|---|
| **AST (U/L)** | 60.88 ± 8.8 | 59.88 ± 18.3 | 68.88 ± 17 | 63.25 ± 10.41 | 61.63 ± 10.95 |
| **ALT (U/L)** | 34.25 ± 5.04 | 32 ± 6.69 | 34.63 ± 5.63 | 29.38 ± 2.64 | 33.63 ± 4.27 |
| **BUN (mg/dL)** | 28.49 ± 5.47 | 28.75 ± 5.12 | 23.65 ± 4.31 | 20.2 ± 3.59 | 22.23 ± 3.94 |
| **CRE (mg/dL)** | 0.49 ± 0.03 | 0.46 ± 0.05 | 0.45 ± 0.1 | 0.48 ± 0.04 | 0.45 ± 0.1 |
| **UA (mg/dL)** | 4.8 ± 1.04 | 4.45 ± 0.59 | 4.24 ± 0.59 | 3.99 ± 0.78 | 4.11 ± 0.45 |
| **Cholesterol (mg/dL)** | 87.13 ± 6.49 | 91.38 ± 14.47 | 85.25 ± 11.49 | 85.75 ± 11.97 | 91.13 ± 11 |
| **TG (mg/dL)** | 82.38 ± 25.89 | 80 ± 27.54 | 65.63 ± 17.45 | 59.25 ± 18.01 | 57 ± 11.81 |
| **Glucose (mg/dL)** | 347 ± 53.16 | 328 ± 44.42 | 312.25 ± 56.18 | 299.38 ± 64.69 | 311.88 ± 23.3 |



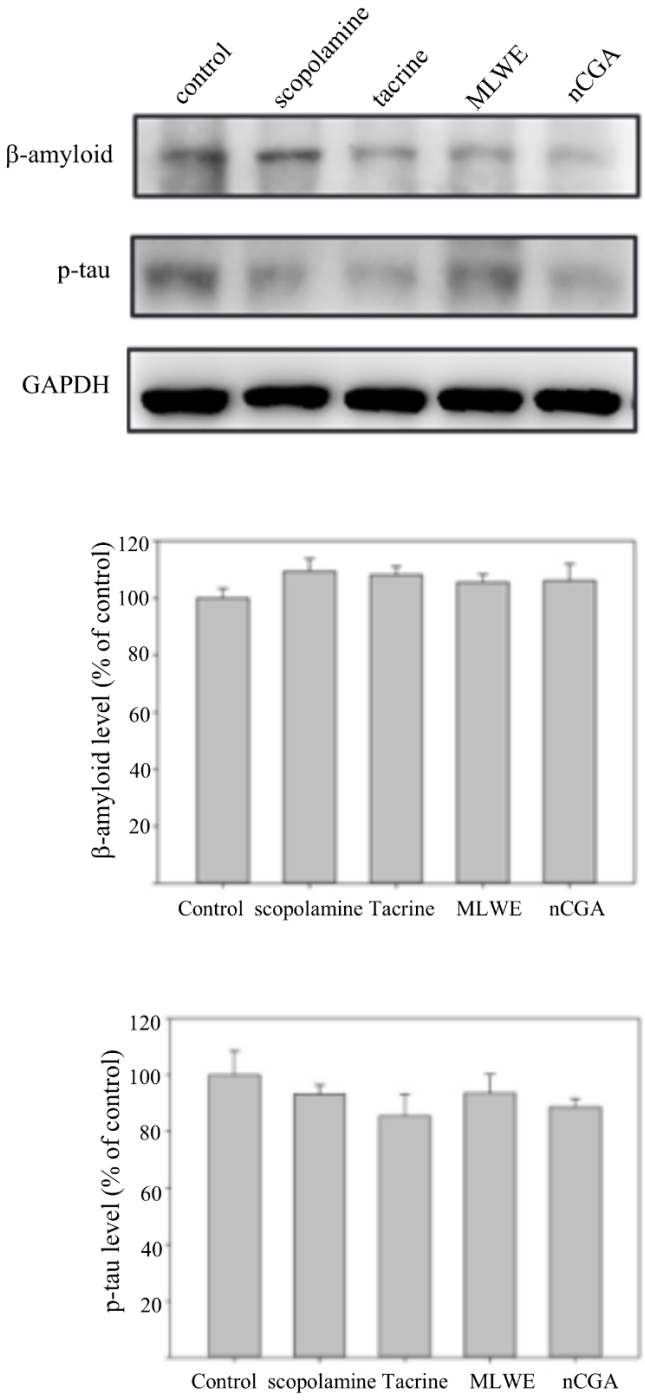

Supplementary figure 1. The effect of MLWE and nCGA on (A) plasma biochemical parameters (B) food intake and (C) the body weight change in scopolamine-induced C57BL/6 mice. C57BL/6 mice were fed with indicated diets as mentioned in material and method section for six weeks. Data represented means ±SD. * $p < 0.05$; ** $p < 0.01$, ***: $p < 0.005$ compared with the control group.

Supplementary Fig. 2




Supplementary figure 2. Representative H&E-stained sections of the hippocampal structure in scopolamine-induced mice. Hippocampus region from mice fed with indicated diet as mentioned in material and method section for six weeks. Brain sections were stained with H&E. The images were captured under a microscope with magnification at 100X, 200X.

Supplementary Fig. 3




Supplementary Fig. 3. No effects of MLWE and nCGA on β-amyloid and phsphorylated tau (p-tau) expression. Hippocampus tissue extracts from indicated treated groups as mention in materials and methods section were subjected to Western blotting to analyze β-amyloid and phsphorylated tau (p-tau) expression. Data are shown as means ± SD.