SUPPLEMENTARY DATA

TITLE: Quercetin ameliorates neuroinflammatory and neurodegenerative biomarkers in brain and improves neurobehavioral parameters in repeated intranasal amyloid-beta exposed model of Alzheimer’s disease

Phosphorylated-Tau (S199)

Fig. 1 Effect of oral treatment with quercetin on the expression of p-Tau in hippocampus and cortex of Aβ1-42-exposed mouse. p-Tau: phosphorylated tau.
Total tau

Fig. 2 Effect of oral treatment with quercetin on the expression of total-tau in hippocampus and cortex of Aβ1-42-exposed mouse.

* Representative blots used in manuscript
Fig. 3 Effect of oral treatment with quercetin on the expression of BACE-1 in hippocampus and cortex of Aβ1-42-exposed mouse. BACE: beta-site of APP cleaving enzyme.
**Beta actin**

![Image of a blot with protein bands labeled Hippocampus and Cortex.]

*Fig. 4* Expression of beta actin protein in the blot of Fig 3 after stripping.

*Representative blots used in manuscript*
Fig. 5 Effect of oral treatment with quercetin on the expression of GFAP in hippocampus and cortex of Aβ1-42-exposed mouse. GFAP: Glial fibrillary acidic protein.
Beta-actin

![Image of a gel blot with molecular weight markers and samples labeled Hippocampus and Cortex.]

**Fig. 6** Expression of beta actin protein in the blot of Fig 5 after stripping.

*Representative blots used in manuscript.*
Fig. 7 Effect of oral treatment with quercetin on the expression of APP in hippocampus and cortex of Aβ1-42-exposed mouse. APP: Amyloid precursor protein.

Fig. 8 Expression of beta actin protein in the blots of Fig 7 after stripping.

* Representative blots used in manuscript.