

**Supplementary Figure 1:** AAV9-mediated eGFP expression was greatly reduced in cortex and hippocampus in old mice respect to young mice.

A. eGFP levels were analized by western blot in cortex. n = 4 animals per group; \*\*\*p<0.0001 old *vs*. young mice (*t* -test two tailed).

B. eGFP levels by Western blot in hippocampus. n = 4 animals per group; \*\*\*p<0.0001 old *vs*. young mice *(t* -test two tailed).