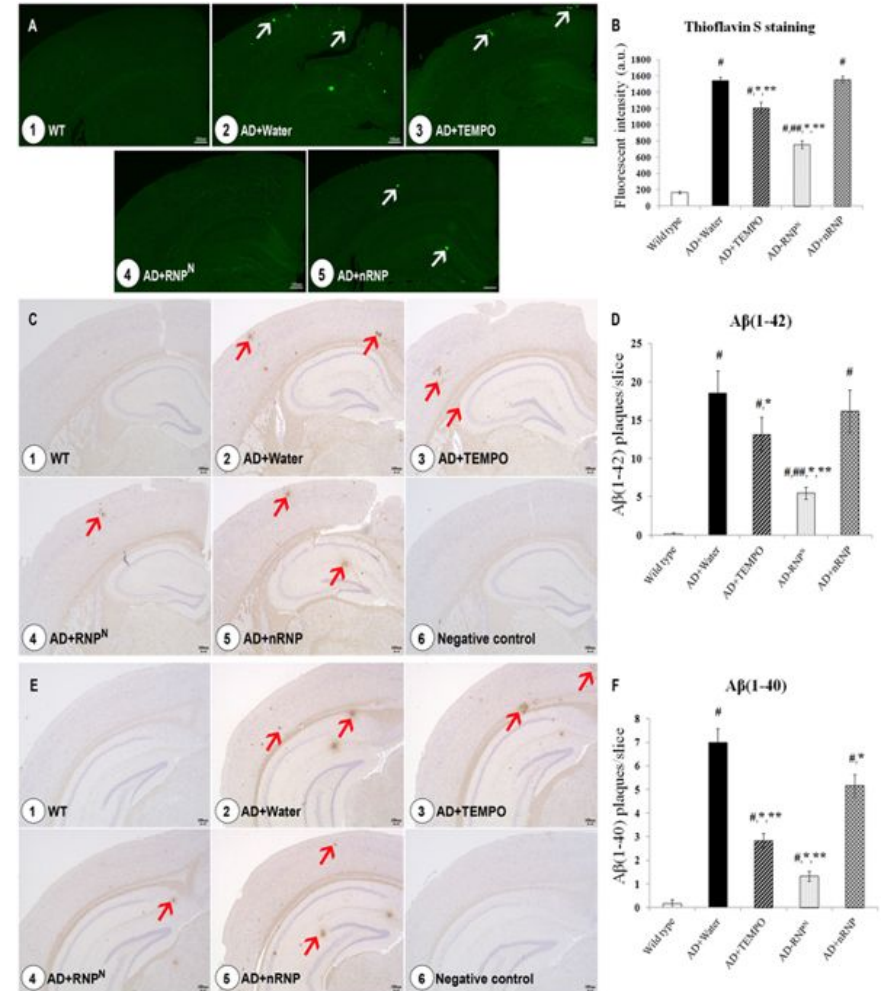


From Laboratory of Neurology

Chronic treatment with a smart antioxidative nanoparticle for inhibition of amyloid plaque propagation in Tg2576 mouse model of Alzheimer's disease

The effect of oral ad libitum drinking of RNP^N on A β -fibrils using thioflavin S staining (A), semi-quantitative analysis of A β -fibril (B), immunohistochemistry staining of A β (1-42) (C), semi-quantitative analysis of A β (1-42) (D), immunohistochemistry staining of A β (1-40) (E), and semi-quantitative analysis of A β (1-40) (F) of the cerebral cortex of mice brain; 1. wild type group; 2. AD mice group treated with water; 3. AD mice group treated with TEMPO; 4. AD mice group treated with RNP^N; 5. AD mice group treated with nRNP; 6. negative control group. Data were expressed as mean \pm SEM, # vs. wild-type group, $p < 0.05$; ## vs. AD mice treated with TEMPO, $p < 0.05$; * vs. AD mice treated with water, $p < 0.05$; ** vs. AD mice treated with nRNP, $p < 0.05$, $n = 5$ sample/group. White arrow indicates amyloid fibril and red arrow indicates amyloid plaque and scale bar = 100 μm .



Boonruamkaew P et al. Sci Rep. 7(1):3785, 2017 Jun 19

Contact: Prof. A. Tamaoka (筑波大学長崎幸雄教授との共同研究)