Figure 1. Hallmarks of Alzheimer Disease (from Honjo K. et al. J. Neurol. Sci. 2012)

Figure 2. Multifunctionalized NPs
Fig. 3. TLC immunostaining analysis of Aβ1–42 binding to lipids.

Fig. 4. Immunohistochemistry of amyloid deposits in AD brain tissue: A) staining with Aβ-MAb of various amyloid deposits revealed on paraffin embedded sections B) immunofluorescent staining of amyloid deposits revealed with Aβ-MAb on frozen sections.

Fig. 5. Curcumin: staining of amyloid deposits in brain sections of Tg CRND8 mice using fluorescence microscopy FITC for ThT and UV for Curcumin
Fig. 6. Different NPs

Fig. 7 – Abeta capture by functionalized PNP

Fig. 8 – PEGylated Polymeric NP anti-Abeta antibody functionalized
Fig. 9. Blood-brain barrier Transwell model system

![Transwell model diagram](image)

Fig. 10 - Theoretical structure of RI-PA-LIP. RI7217 antibody was linked to LIP by biotin/streptavidin ligation technique

![RI-PA-LIP diagram](image)

Fig. 11 $^{[11}C$PIB uptake in the brain of old APP23 TG mice. $^{11}$C-radioactivity is higher in the frontal cortex CTX (abundant Aβ deposition) than in the cerebellum CB (no Aβ deposition).