

Supporting Information

## Peptide functionalized magneto-plasmonic nanoparticles obtained by microfluidics for inhibition of $\beta$ -amyloid aggregation

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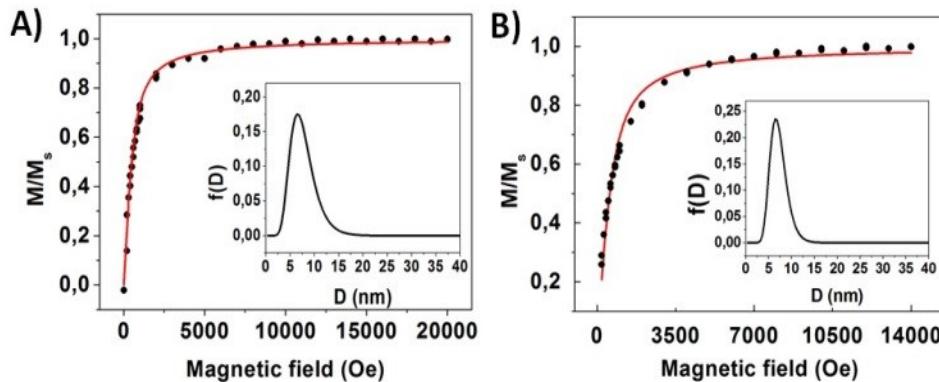


Figure S1: Magnetization curve of A) MNP and B) MNP-D1. The inserts show the log-normal distribution of size of MNPs in each case.

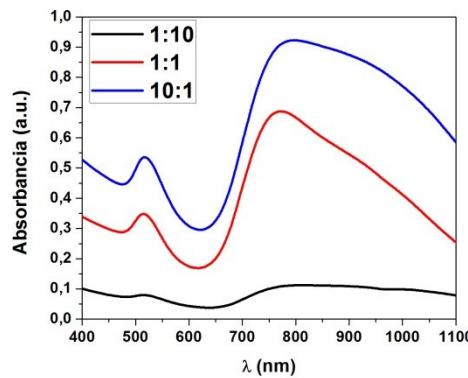


Figure S2: UV-Vis spectra of bulk experiments for A) 1:10 B) 1:1 C) 10:1.

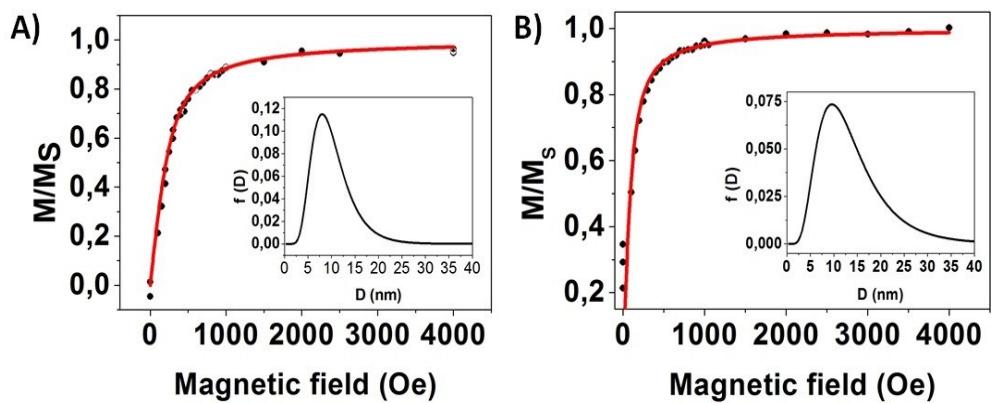


Figure S3: Magnetization curve of A) MFMP and B) MFMP-D1.

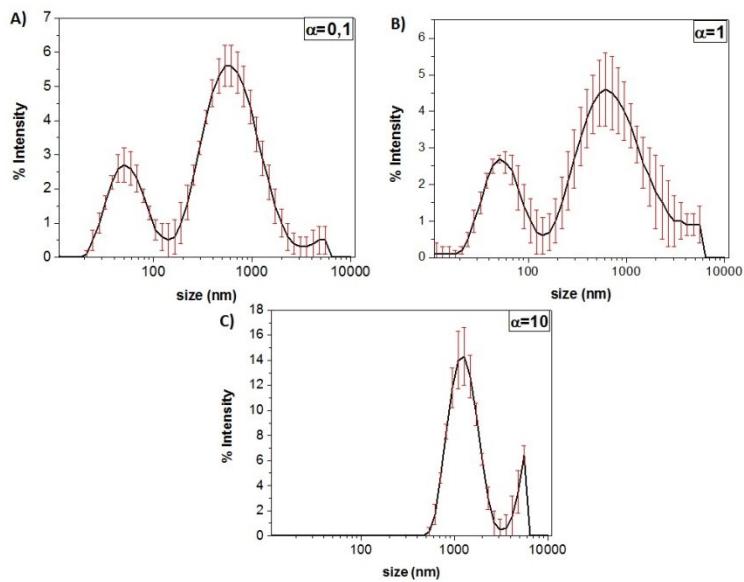


Figure S4: Dynamic light scattering of bulk experiments for A) 1:10 B) 1:1 C) 10:1.

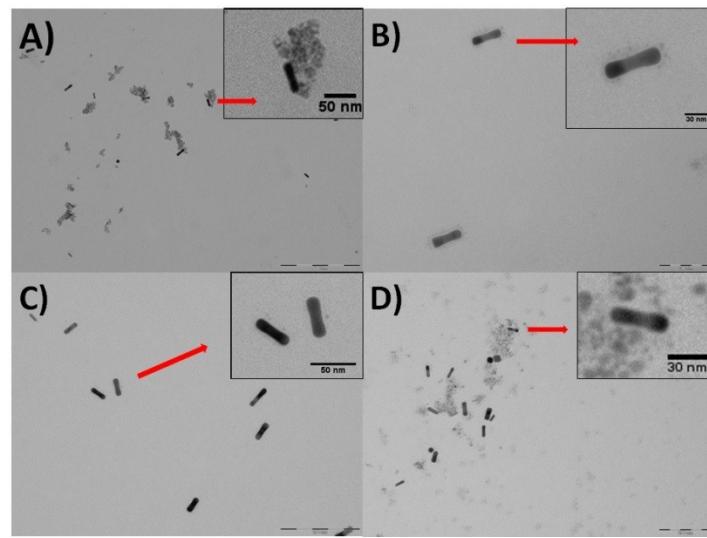


Figure S5: TEM images of A)  $\alpha=10$ , B)  $\alpha=1$ , c)  $\alpha=0.1$ . D) bulk experiments at 1:1.

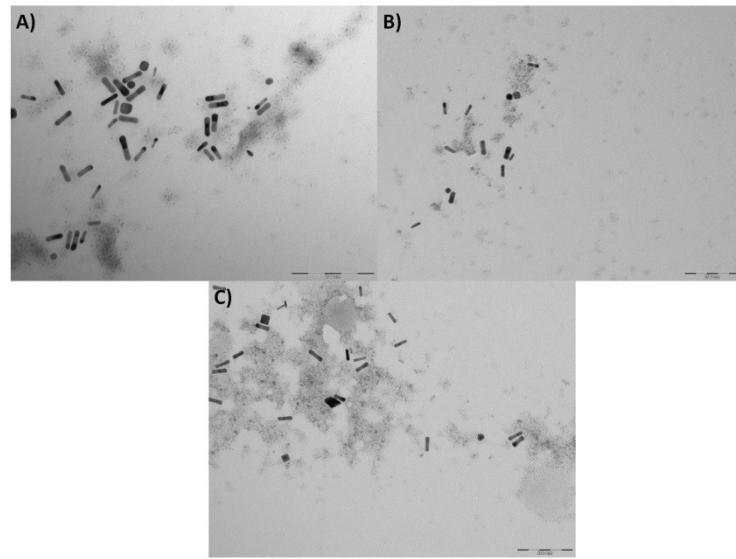


Figure S6: TEM images of bulk experiment for A) 1:10, B) 1:1 and C) 10:1.