**Supporting informations:**

# Interaction of $A\beta_{1-42}$ amyloids with Lipids Promotes "Off-Pathway" Oligomerization" and Membrane Damages

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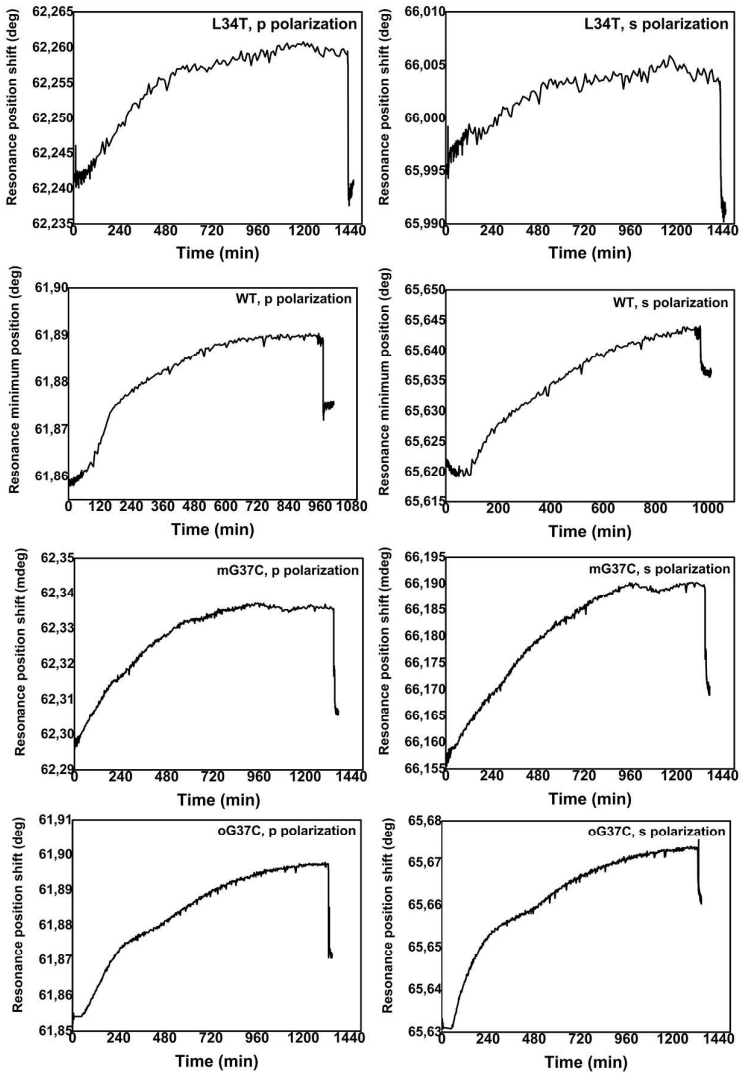


**Figure 1S:** Kinetics of amyloid peptide interaction with DOPC lipid membranes. Variation of the minimum resonance position obtained with perpendicular *p*-(left) and parallel *s*- (right) polarisation is plotted as the function of time.

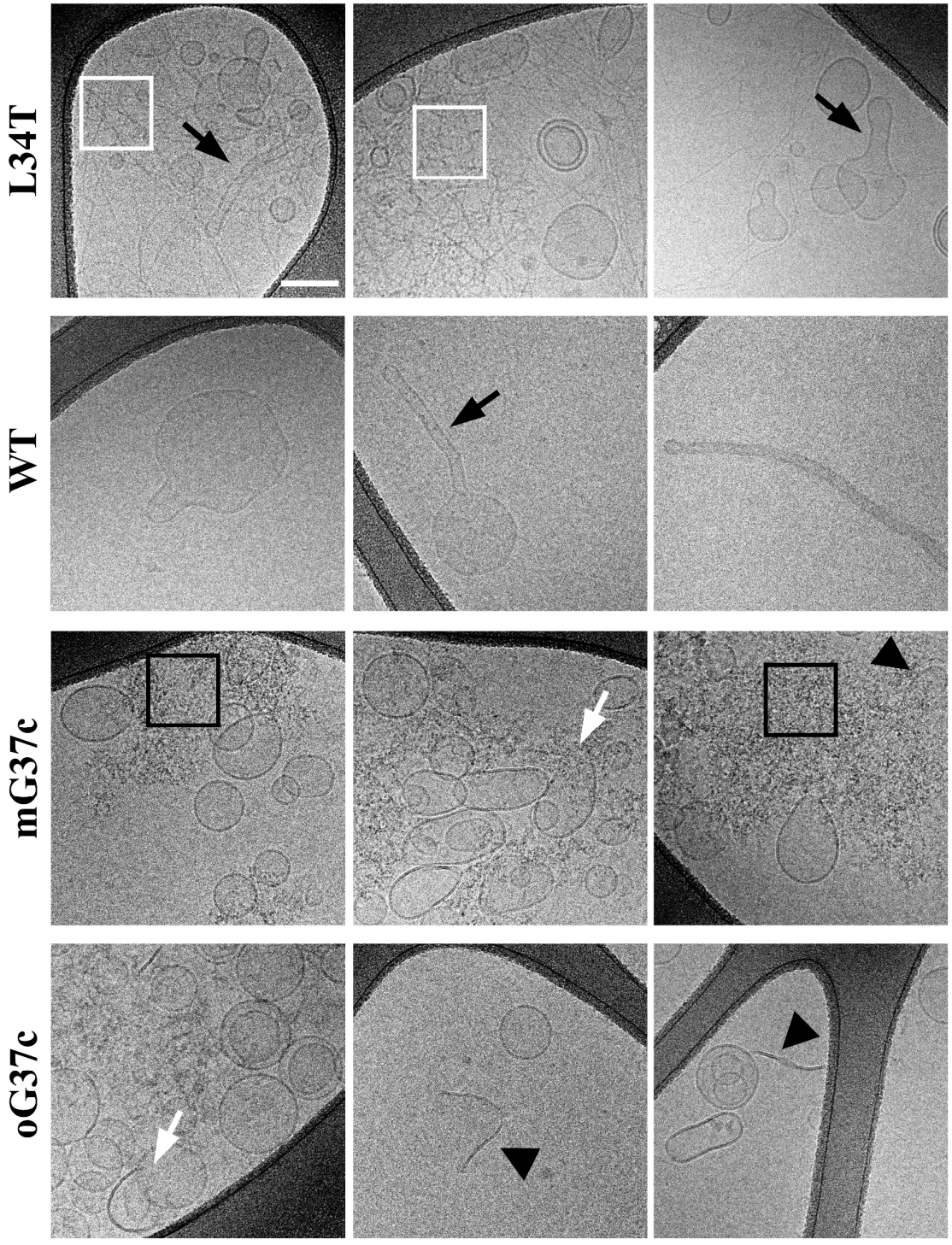


**Figure 2S:** CryoTEM images of DOPG LUVs incubated during 2 h with the four peptides at a peptide lipid ratio of 40µM/20µM in Tris buffer at pH 7.4. White and black squares indicate fibers and aggregates, respectively. White and black arrows indicate liposomes with tubular shape and opened liposomes, respectively whereas arrow head indicates membrane fragments. Scale bar is 100nm.

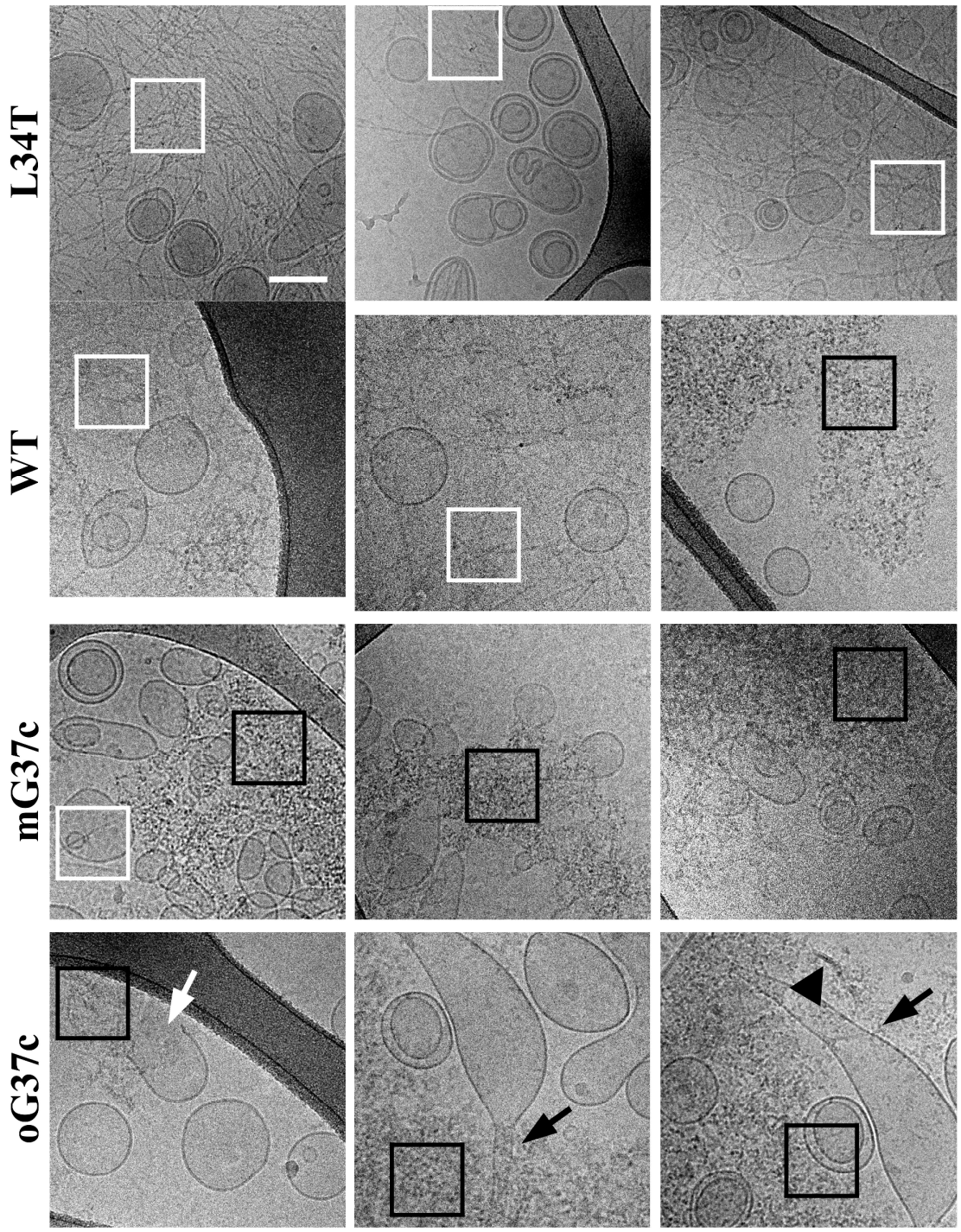


**Figure 3S:** CryoTEM images of DOPG LUVs incubated during 24 h with the four peptides at a protein lipid ratio of 40µM/20µM in Tris buffer at pH 7.4. White and black squares indicate fibers and aggregates, respectively. White and black arrows indicate liposomes with tubular shape and opened liposomes, respectively whereas arrow head indicates membrane fragments. Scale bar is 100nm.