

## Solvent exposure of Tyr10 as a probe of structural differences between monomeric and aggregated forms of the amyloid- $\beta$ peptide

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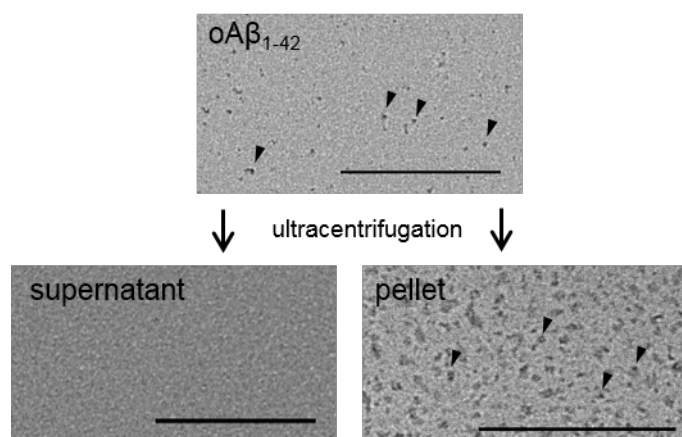
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### Quantification of monomer content in oA $\beta$ <sub>1-42</sub> oligomers

In order to quantify the concentration of monomers that are incorporated into oligomers in the oA $\beta$ <sub>1-42</sub> solutions we used ultracentrifugation to sediment the oA $\beta$ <sub>1-42</sub> species and separate them from potential residual monomers. TEM analysis of the original oA $\beta$ <sub>1-42</sub> solution, the supernatant and the pellet fractions confirmed the presence of oA $\beta$ <sub>1-42</sub> in the initial solution and in the pellet, but not in the supernatant (Figure S1). The peptide content in the original solution, the pellet fraction and the supernatant was thereafter determined by quantitative amino acid analysis. The results showed that 89% of the peptide was in the pellet fraction corresponding to oligomers whereas, 11% remained soluble.



**Figure S1.** TEM images of oA $\beta$ <sub>1-42</sub> before and after ultracentrifugation showing the presence of oligomers in the pellet fraction and absence of oligomers in the supernatant. Arrows indicate oA $\beta$ <sub>1-42</sub>. The scale bars correspond to 500 nm.