



FIGURE 9. Aβ and Zn²⁺ cross-seeding. A, Maximal ThT fluorescence of Aβ₍₁₋₄₀₎ (grey) and Aβ₍₁₋₄₂₎ (black) with 0.4 equivalents of Zn²⁺, which after a week was used to seed monomeric Aβ (1st seeding), which in turn was also used to seed monomeric Aβ (2nd seeding), which again was used to seed monomeric Aβ (3rd seeding). Seeds were 10 % of final volume. Fluorescence is presented as a percentage of ThT fluorescence for mature Aβ₍₁₋₄₀₎ and Aβ₍₁₋₄₂₎ fibres grown in the absence of Zn²⁺ the dotted line. Fibre growth was carried out at pH 7.4, with 10 μM Aβ, 30 mM HEPES, 10 mM NaCl and agitation, at 30 °C. B – E. Representative TEM images of Aβ₍₁₋₄₂₎ and Aβ₍₁₋₄₀₎ grown with 0.4 equivalents of Zn²⁺ (B,C); 2nd seeding for Aβ₍₁₋₄₂₎ and Aβ₍₁₋₄₀₎ contains 0.004 equivalents of Zn²⁺ (D,E). Samples were stained with phosphotungstic acid. Scale bars are 500 nm. Zn²⁺ generated assemblies could not seed similar assemblies once Zn²⁺ was diluted.