Supplementary material

# Micro-spherical cochleate composites: method development for monodispersed cochleate system

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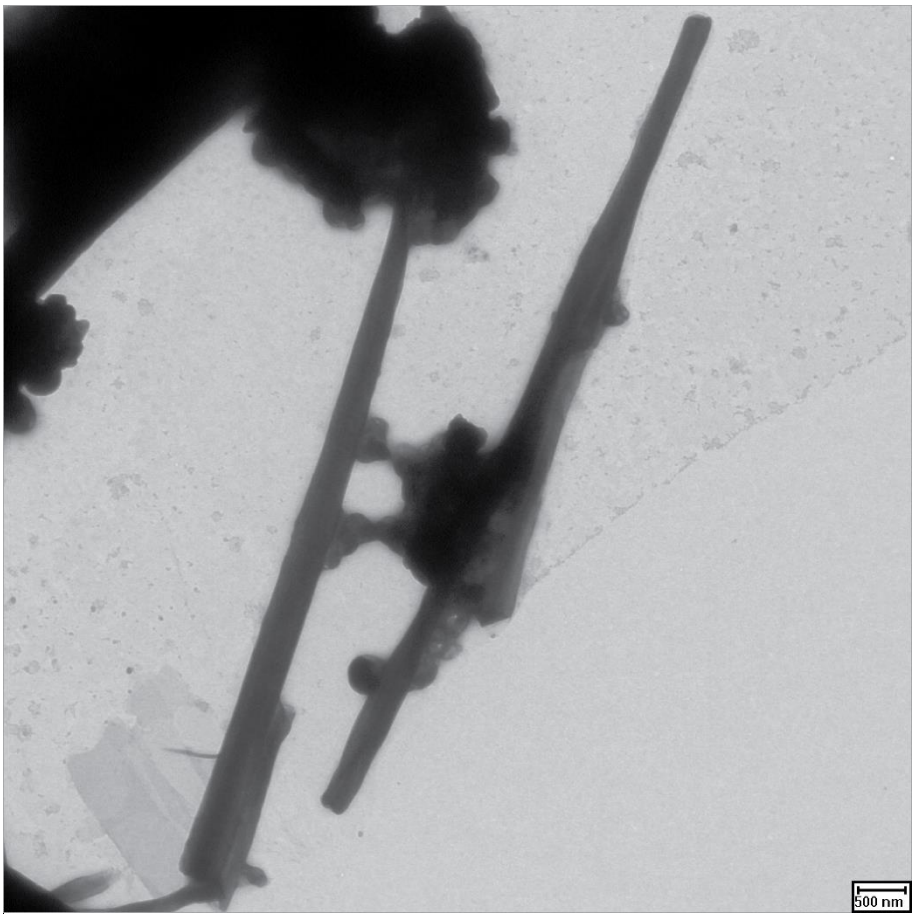


**Figure S1:** TEM micrograph showing long cylindrical cochleates. Sample was prepared in NanoAssemblr™ by mixing the $CaCl_2$ buffer (in 10 mM Tris) solution with DOPS liposomes (1 mg/ml) extruded through 100 nm polycarbonate membrane. Long cylindrical cochleate particles were prepared when DOPS was precipitated in complete absense of ethanol. Flow rate was 6 ml/min and mixing ratio for the two streams was 1:1.

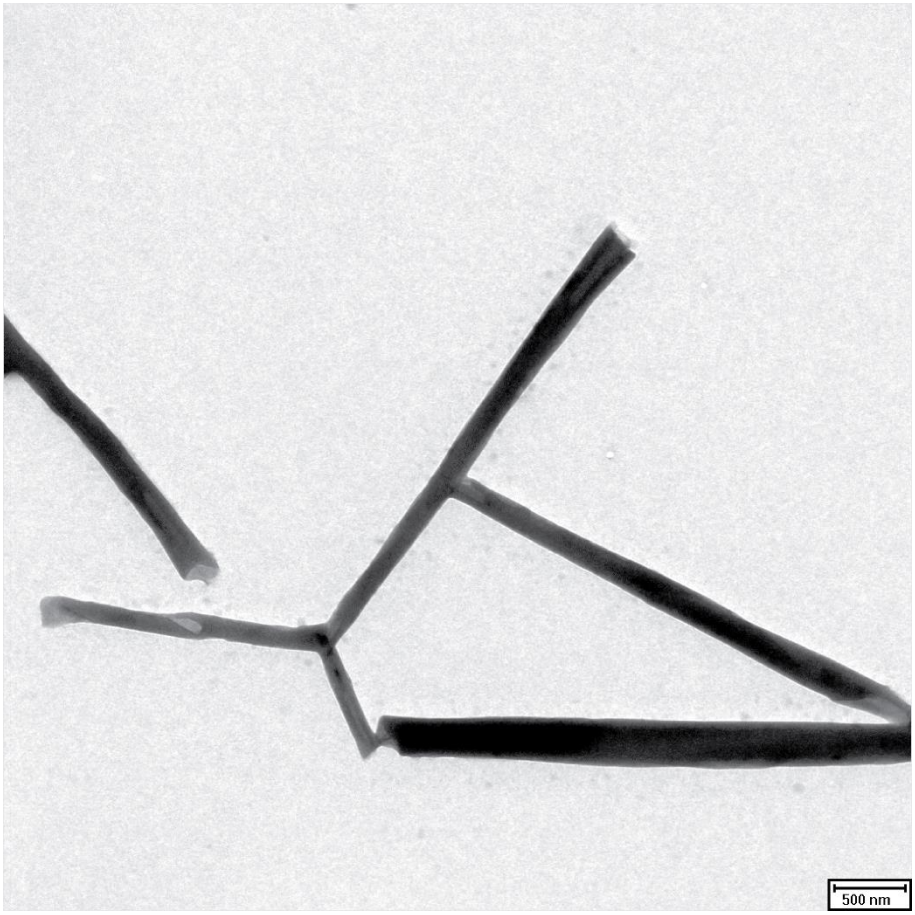


**Figure S2:** Long cylindrical cochleates observed when high aqueous component was used in the mixture. Ratio of $CaCl_{2(aqueous)}$ : $DOPS_{(ethanolic)}$ (3:1), mixing rate 12 ml/min and concentration of ethanolic DOPS was 1 mg/ml.

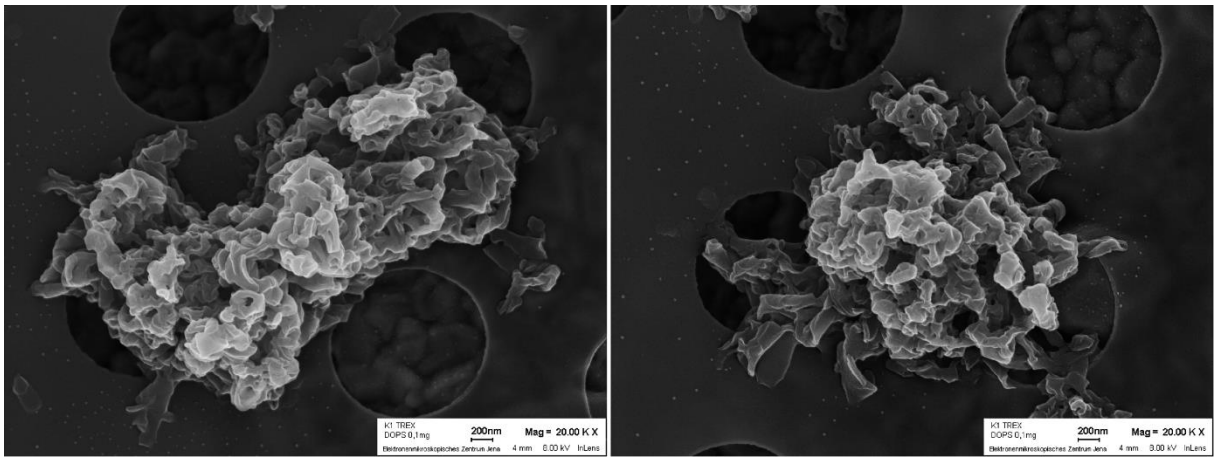


**Figure S3:** Cochleate composites prepared using the modified trapping method (using T-25 Ultra-Turrax® homogenizer) showed irregular non-spherical morphology.

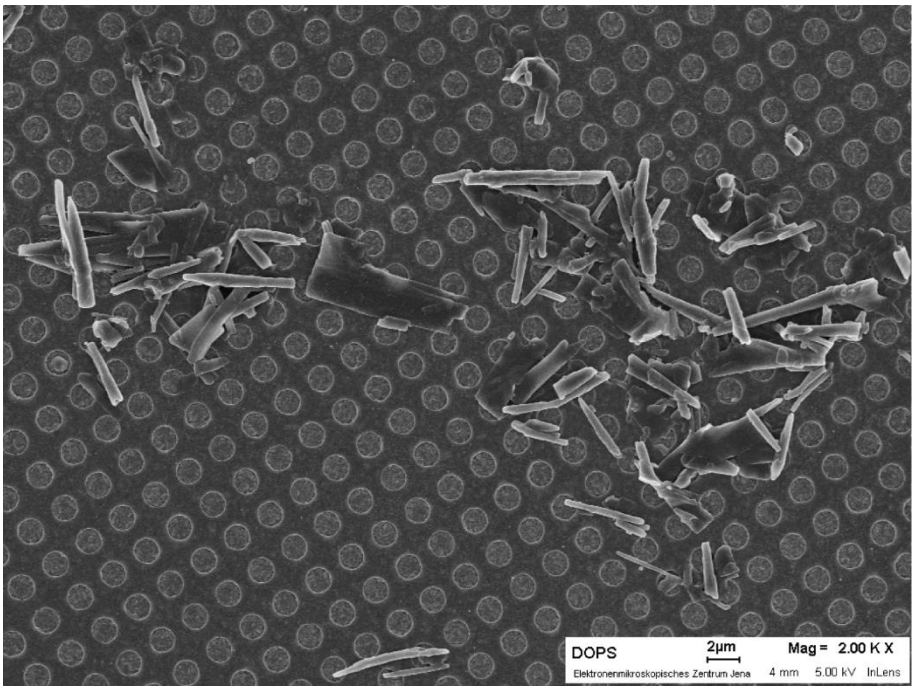


**Figure S4:** SEM micrograph showing an overview of the conventional DOPS cochleates prepared by trapping method.