

Supporting Information

Virus-like Silica Nanoparticles Improve Permeability of Macromolecules across the Blood–Brain Barrier In Vitro

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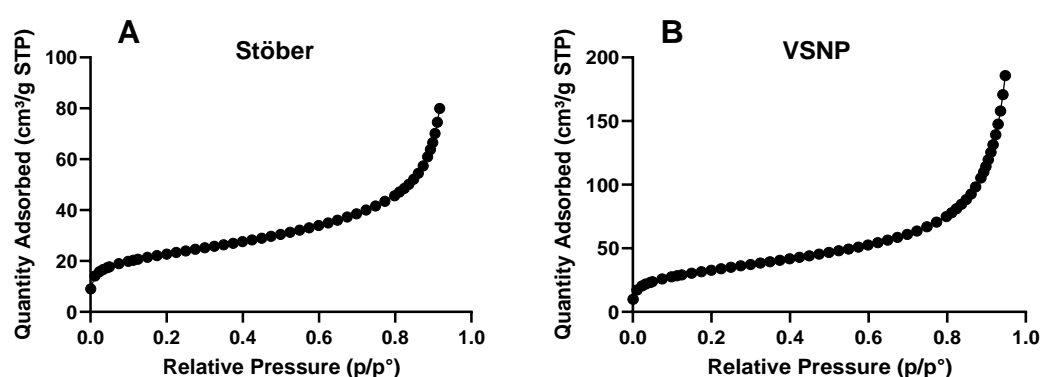


Figure S1. Nitrogen adsorption–desorption isotherms of (A) Stöber and (B) VSNP.

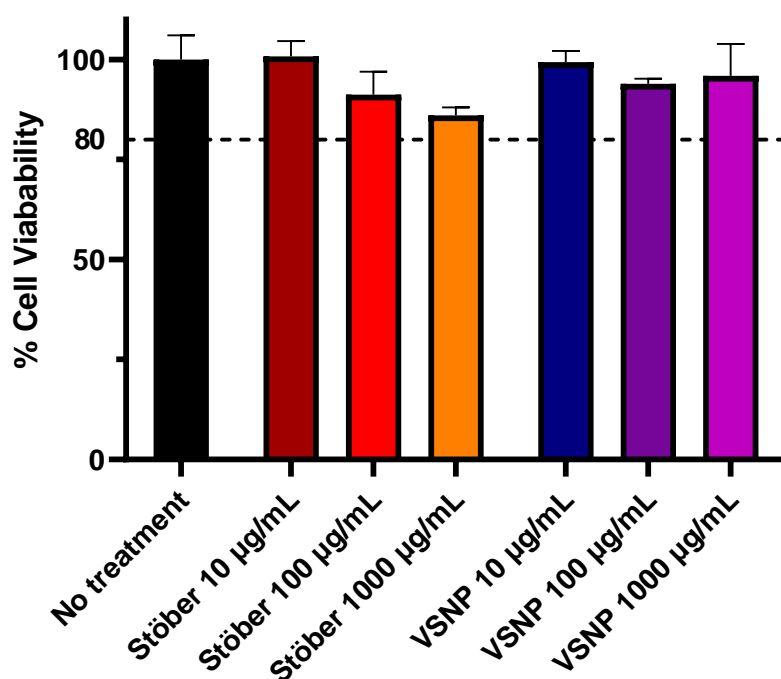


Figure S2. Cell viability was tested in hCMEC/D3 brain endothelial cell line. Cell treated with either Stöber and VSNP for 4 hours (concentration from 10 μ g/mL to 1000 μ g/mL) showed no significant toxicity and cell viability was above 80% at all concentrations. AlamarBlue assay was performed to study the cytotoxicity, n=5 for treatment groups and n=10 for no treatment group.

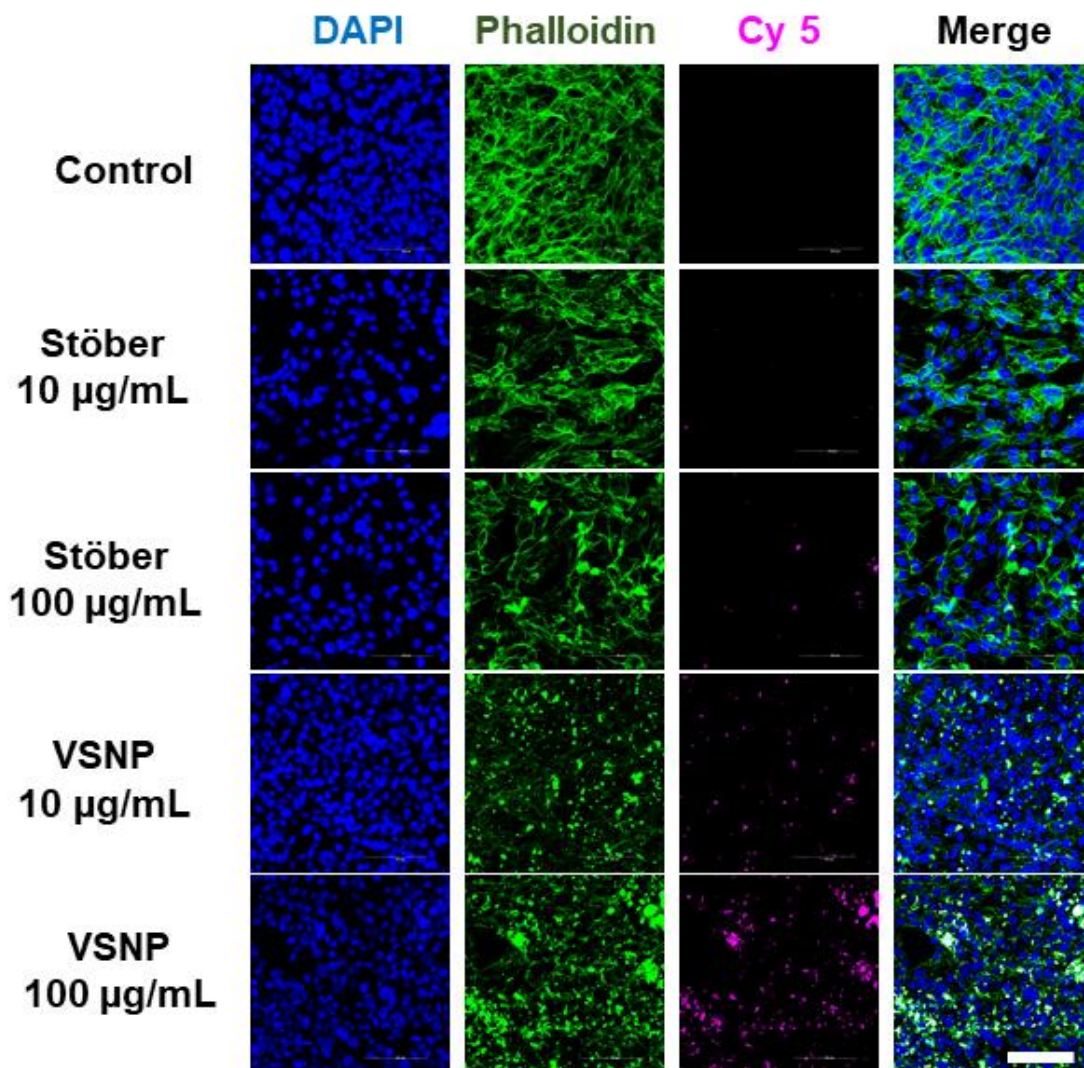


Figure S3. Uptake of Stöber and VSNP nanoparticles into human brain endothelial cells hCMEC/D3 analysed by confocal microscopy. Scale bar, 100 μ m. Blue DAPI staining nuclei, green Phalloidin staining cytoskeleton and pink Cy5 labelled silica nanoparticles.