

Supplementary Information

Environmentally responsive self-assembly of mixed poly(*tert*-butyl acrylate)/polystyrene brush-grafted silica nanoparticles in selective polymer matrices

Saide Tang,^a Tara L. Fox,^b Ting-Ya Lo,^c Jonathan M. Horton,^d Rong-Ming Ho,^c Bin Zhao,^{*d}
Phoebe L. Stewart^{*b} and Lei Zhu^{*a}

^a *Department of Macromolecular Science and Engineering, Case Western Reserve University, Cleveland, Ohio 44106-7202, United States*

^b *Department of Pharmacology, Case Western Reserve University, Cleveland, Ohio 44106, United States*

^c *Department of Chemical Engineering, National Tsing Hua University, Hsinchu 30013, Taiwan*

^d *Department of Chemistry, University of Tennessee, Knoxville, Tennessee 37996, United States*

I. Comparison of Mixed Brush Morphology in Bulk and Thin Film Nanocomposites

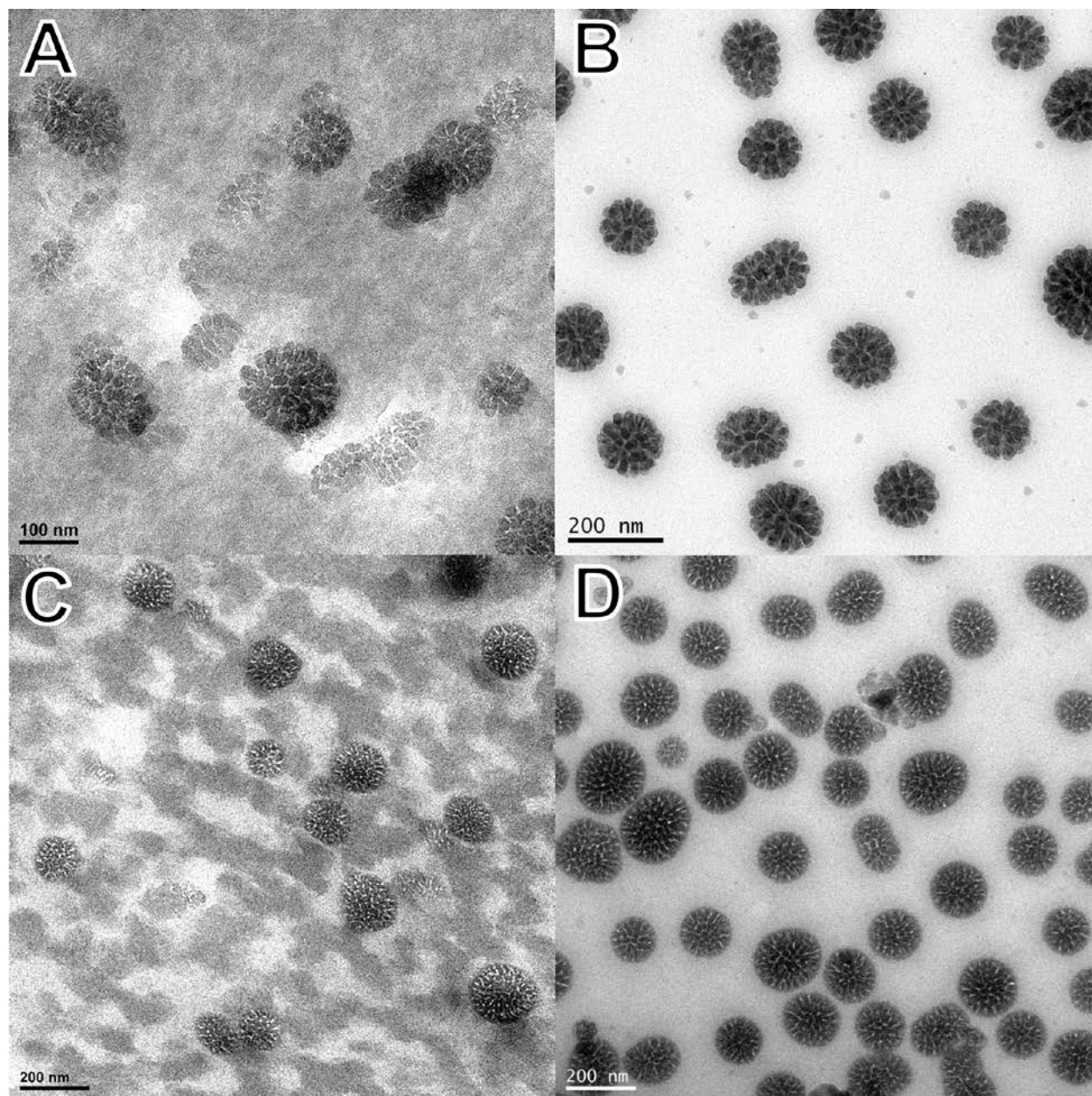


Fig. S1. Bright-field TEM micrographs for the mixed PtBA/PS brush-grafted 67 nm silica nanoparticles in (A & B) PtBA 5 kDa and (C & D) PCHMA 3 kDa matrices. (A & C) are microtomed thin slices from the bulk samples and (B & D) are the drop-cast film samples.