



Interaction of poly(L-lysine)/polysaccharide complex nanoparticles with human vascular endothelial cells

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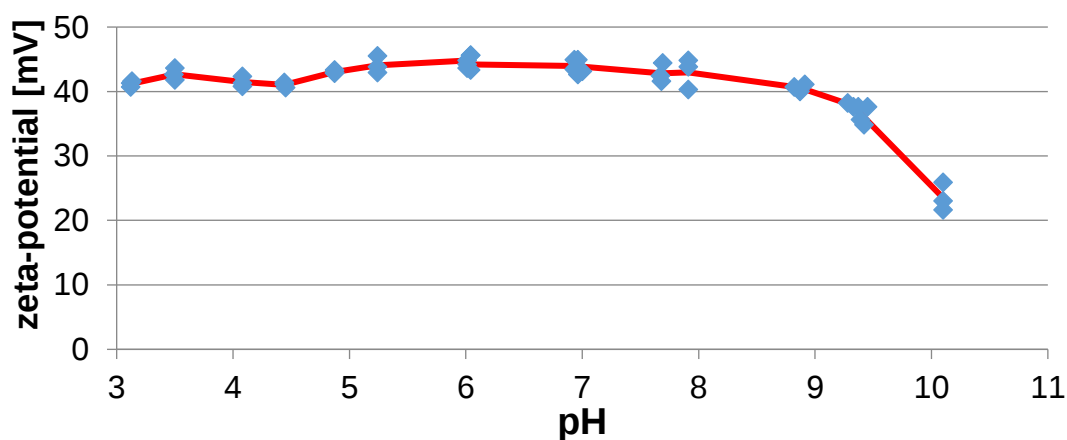
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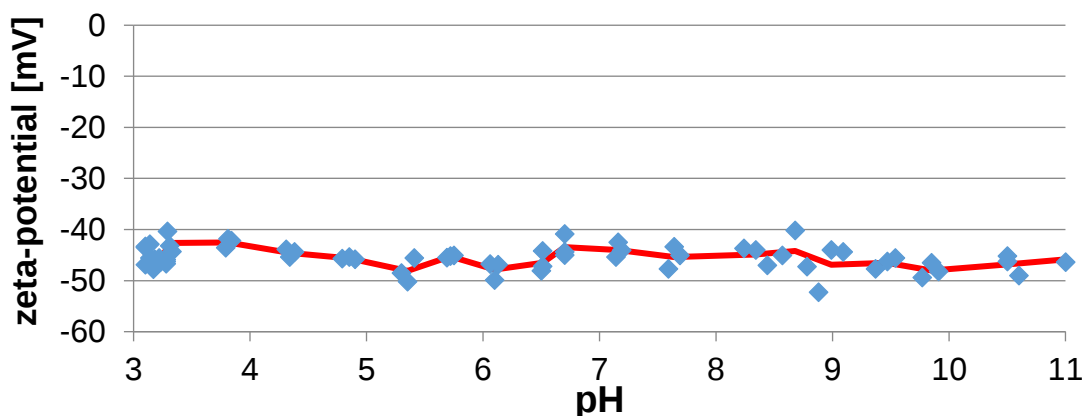
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1. Zeta-potential/pH profiles of PECNP



(a)



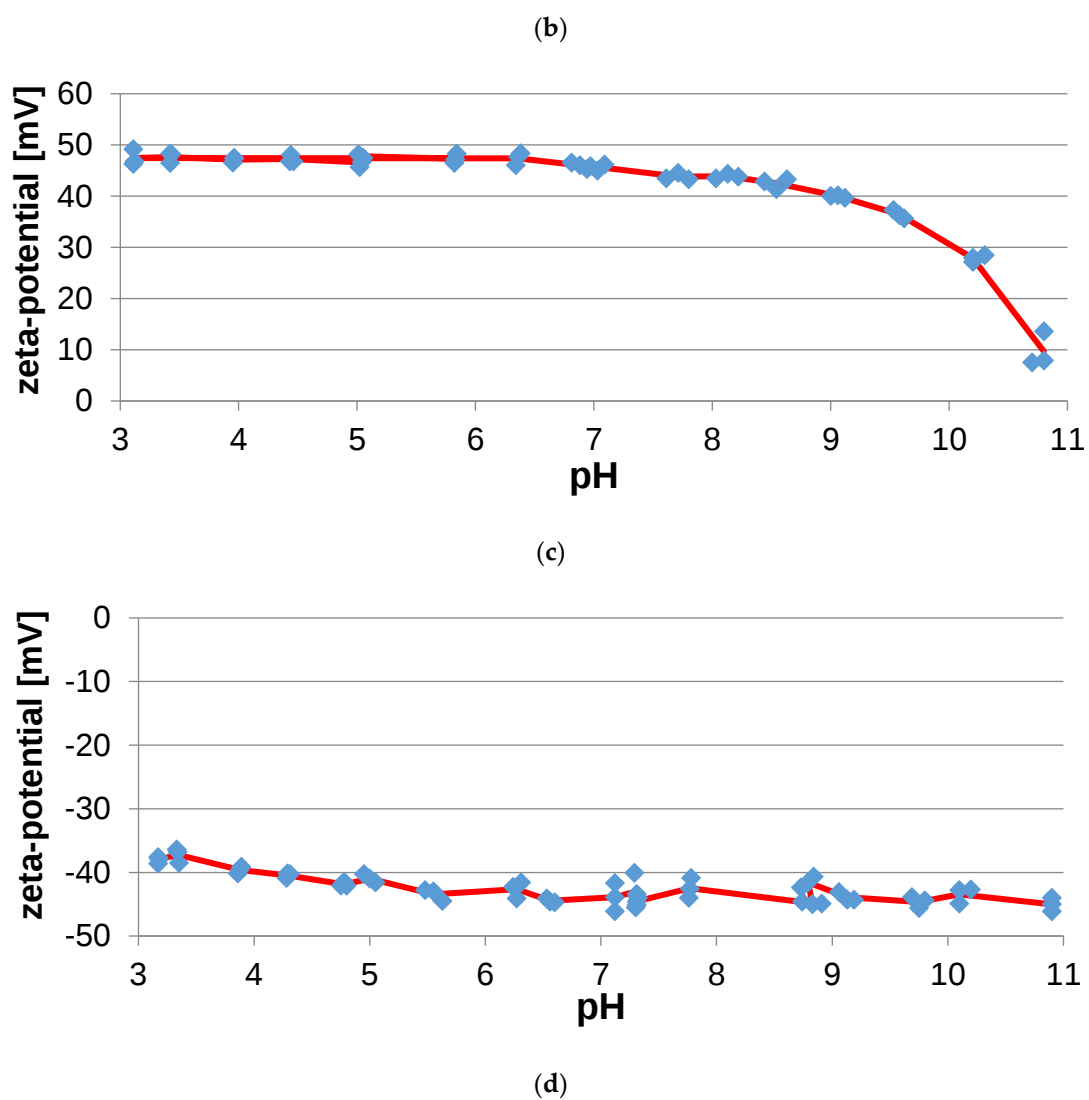


Figure SM1. Zeta-potential/pH profiles of PECNP: (a) PECNP-0.9 PLL/CS-2m, native pH = 6.95; (b) PECNP-1.1 PLL/CS-2mM, native pH = 6.61; (c) PECNP-0.9 PLL/DS-2mM, native pH = 6.10; (d) PECNP-1.1 PLL/DS-2mM, native pH = 7.19.

2. PLL conformation in PECNP samples

2.1. CD spectroscopy at dispersed PECNP in the volume phase

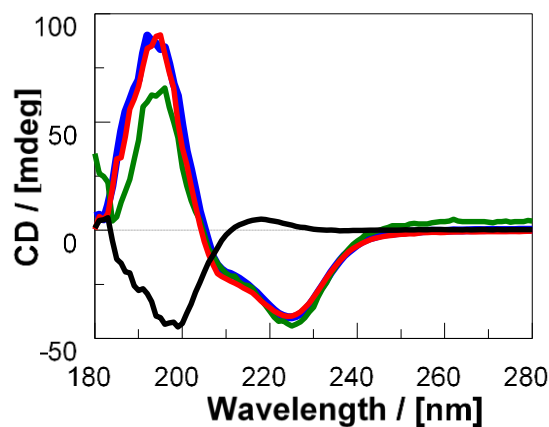


Figure SM2. CD spectra on pure PLL solution (black) and PECNP dispersions of PLL/CS (blue), PLL/DS (red) and PLL/HEP (green) for $n/n+ = 1.1$, concentration $c = 0.002\text{M}$ and $\text{pH}=7.4$.

2.2. ATR-FTIR spectroscopy at PECNP bound to polystyrene (PS) substrate

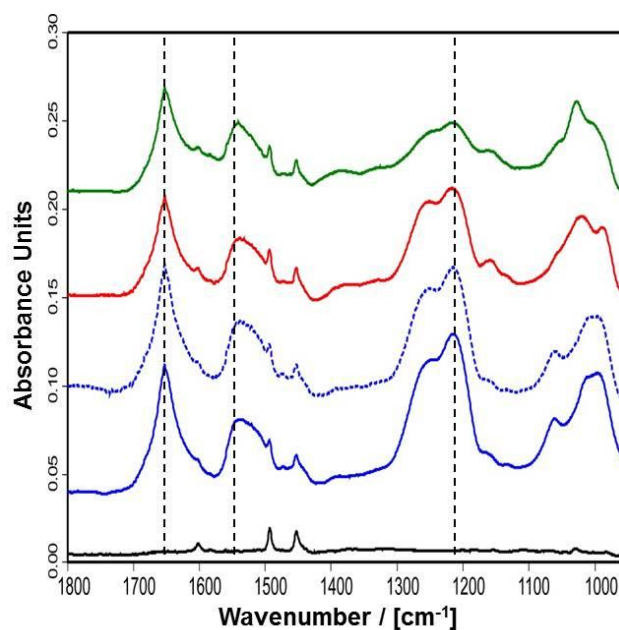


Fig. SM3. ATR-FTIR spectra on spin-coated PS film (at Ge model substrate) (black) and thereupon casted PECNP dispersions of PLL/CS-1.1 (blue, full), PLL/CS-0.9 (blue, broken), PLL/DS-1.1 (red) and PLL/HEP-1.1 (green), concentration $c = 0.002\text{M}$ after rinsing in HEPES buffer ($\text{pH} = 7.4$).

3. Morphology of PECNP at poly(styrene) (PS) found by scanning force microscopy (SFM)

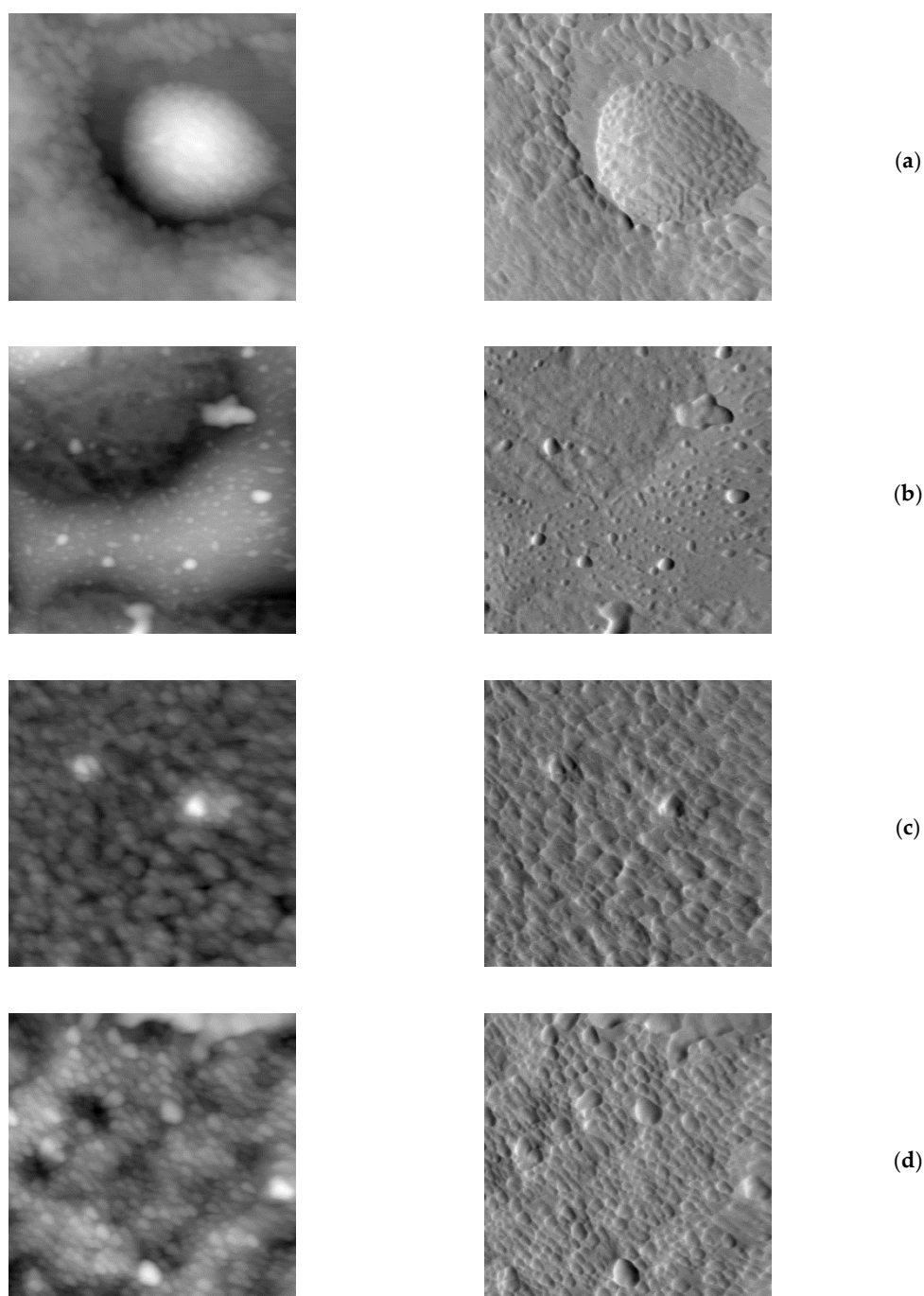


Fig. SM4. Morphology of PECNP at poly(styrene) (PS) found by scanning force microscopy (SFM): SFM images ($2 \times 2 \text{ }\mu\text{m}$; topography images top row; error images, bottom row) of casted PLL/CS-0.9 (a), PLL/CS-1.1 (b), PLL/DS-1.1 (c) and PLL/HEP-1.1 (b) dispersions (0.002M, 50 microliters, pH = 7.4) at polystyrene (PS) film spin-coated onto germanium model substrate after rinsing in HEPES buffer. The samples are identical to Fig. SM3.

