

# Supporting Information

## Exploring the potential of benzene-1,3,5-tricarboxamide supramolecular polymers as biomaterials

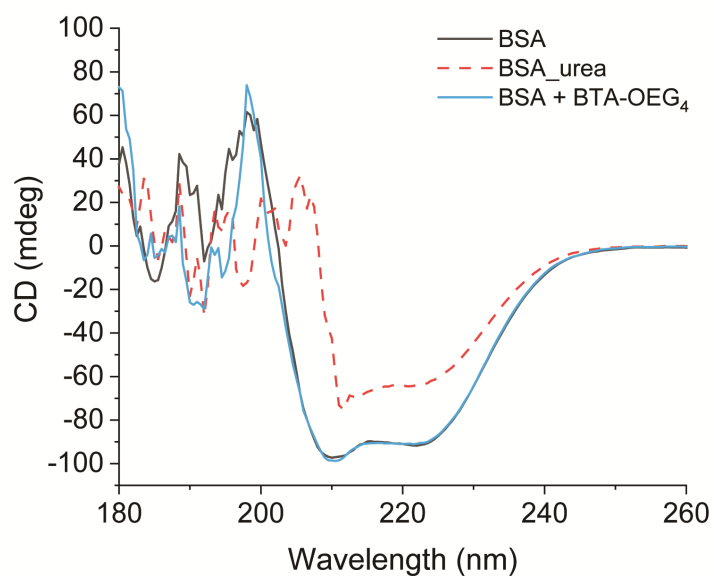
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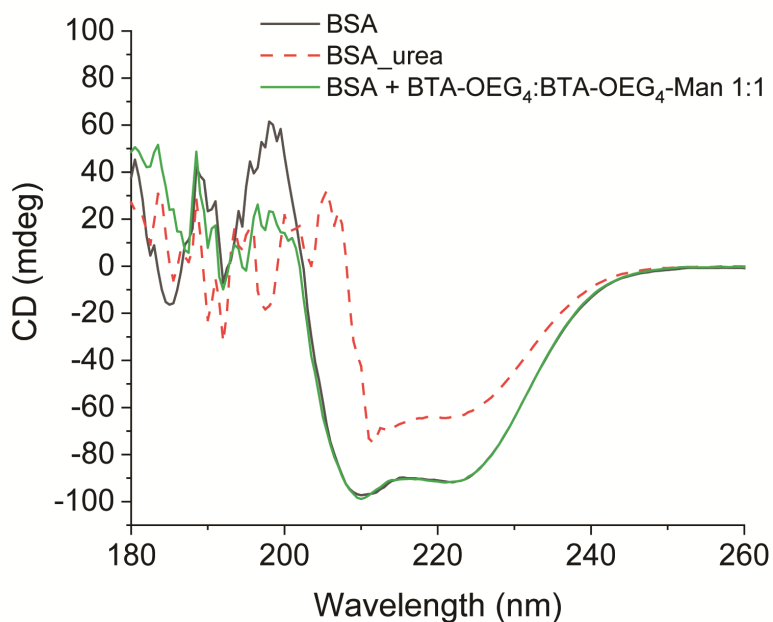
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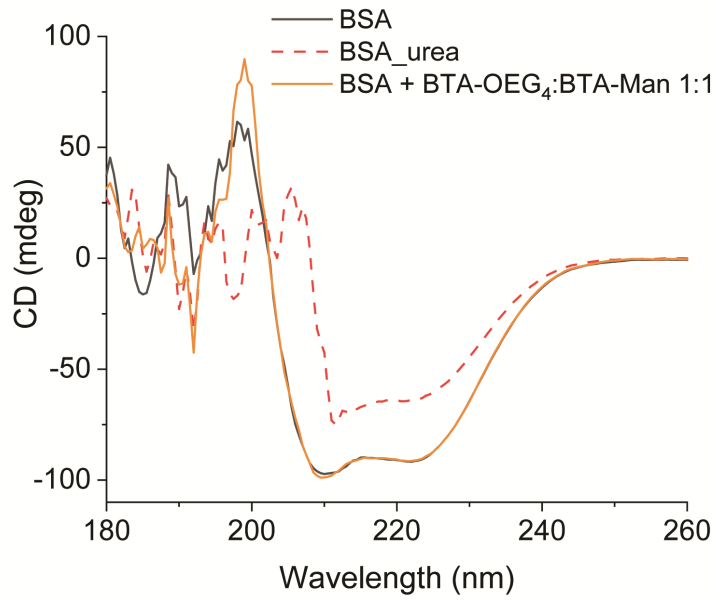
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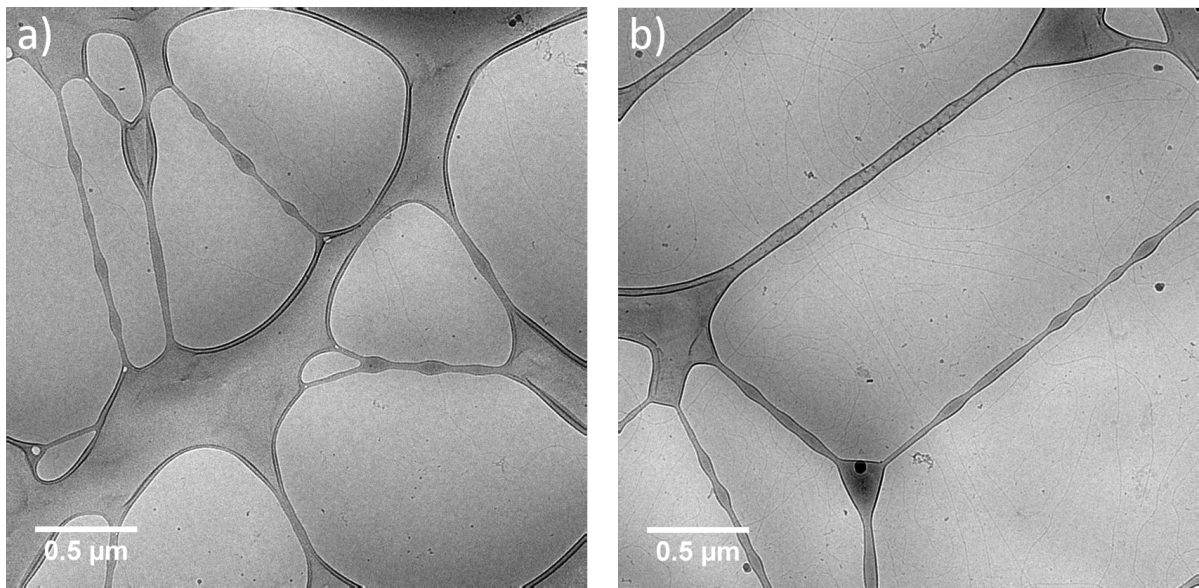
**Figure S1.** CD spectrum of **BTA-OEG<sub>4</sub>** incubated with BSA compared with native BSA and BSA denatured by urea.



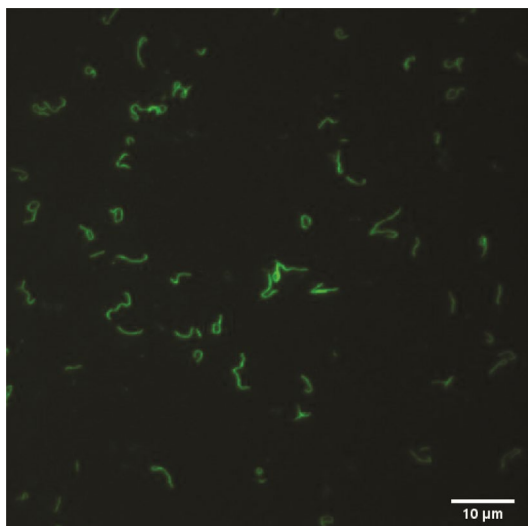
**Figure S2.** CD spectrum of **BTA-OEG<sub>4</sub>-Man/ BTA-OEG<sub>4</sub>** incubated with BSA compared with native BSA and BSA denatured by urea.



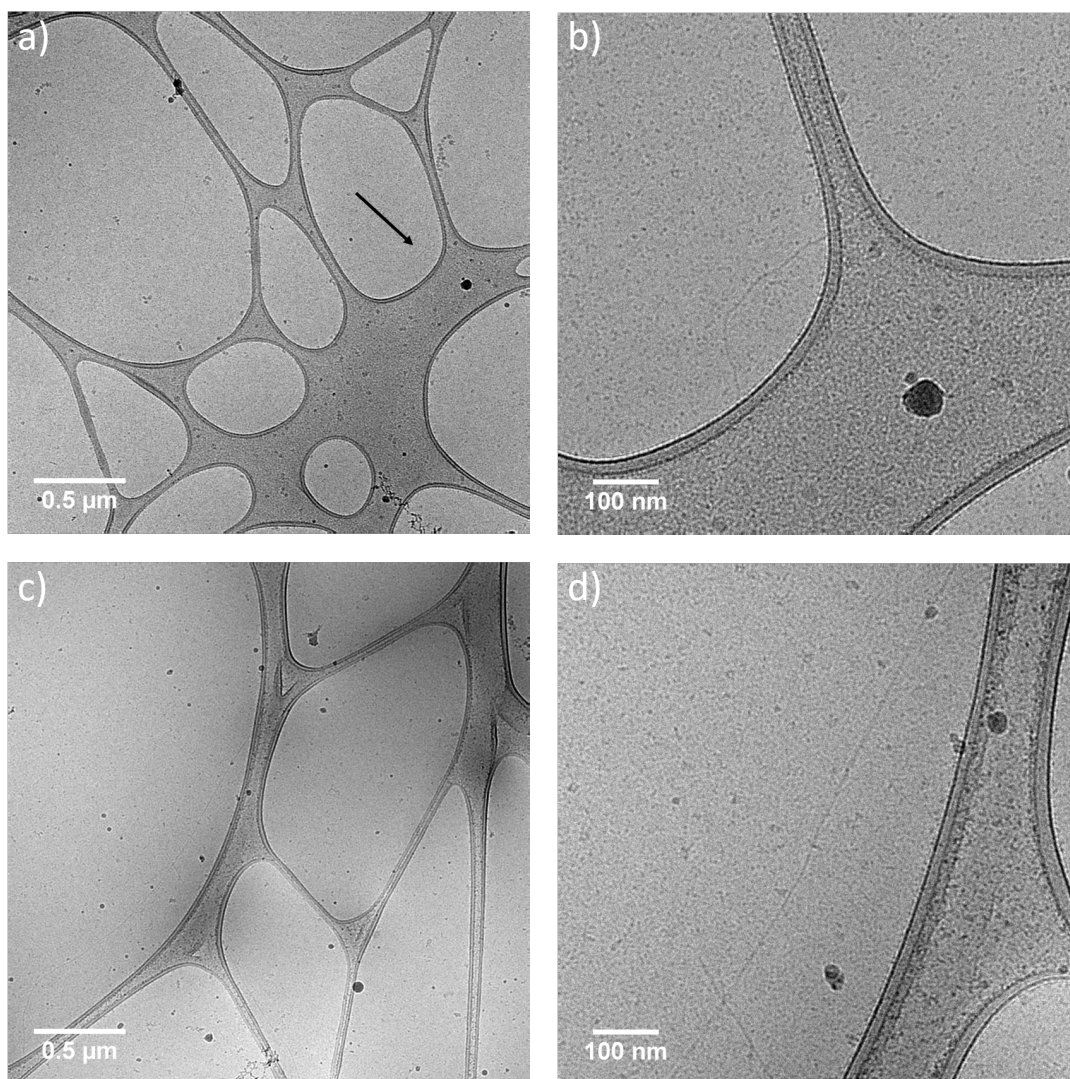
**Figure S3.** CD spectrum of **BTA-Man/ BTA-OEG<sub>4</sub>** incubated with BSA compared with native BSA and BSA denatured by urea.



**Figure S4.** CryoTEM of **BTA-OEG<sub>4</sub>** (a) and **BTA-OEG<sub>4</sub>** incubated with BSA (b). The BTA concentration is 250  $\mu$ M.



**Figure S5.** TIRF image of Cy3-BTA-OEG<sub>4</sub> in PBS.



**Figure S6.** CryoTEM of BTA-OEG<sub>4</sub> in MEM (a and b) and BTA-OEG<sub>4</sub> in DMEM (c and d). The BTA concentration is 250 μM.

	BSA + 100 BTA monomers	BSA + BTA fiber	$\Delta$ (fiber-monomers)
LJ energy <b>per-BTA monomer</b> (kcal/mol)	$-2682.68 \pm 0.14$	$-2684.79 \pm 0.14$	<b>-2.11</b> (in favor of the fiber)
Total potential energy <b>per-BTA monomer</b> (kcal/mol)	$-2643.59 \pm 0.06$	$-2645.76 \pm 0.14$	<b>-2.17</b> (in favor of the fiber)

**Table S1.** Values of the total potential energy and the Lennard Jones LJ energy in the systems (per-monomer), computed on the equilibrated phase of 400 ns of the CG-MD simulations.