

**Supporting Information for:**

**Order-Order Morphological Transitions for Dual**

**Stimulus-Responsive Diblock Copolymer Vesicles**

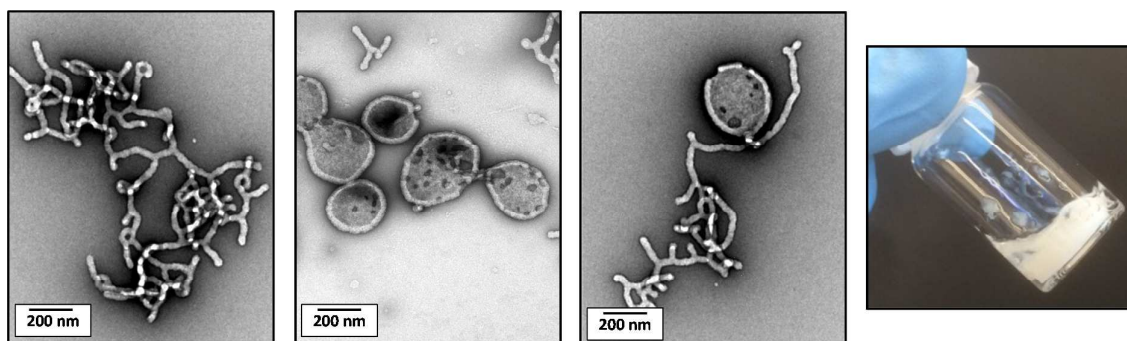
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**Figure S1.** Representative TEM images obtained for a 0.1 % w/w aqueous dispersion of HOOC-PGMA<sub>43</sub>-PHPMA<sub>250</sub> diblock copolymer vesicles after cycling from pH 3.5 at 25 °C to pH 6.0 at 5 °C to pH 3.5 at 25 °C. The final dispersion contains a mixture of worms and vesicles and is no longer colloidally stable, indicating irreversible changes in the copolymer morphology.