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Self-Assembled Collagen-like Peptide Fibers as Templates for Metalic Nanowires

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Electronic Supplementary Information

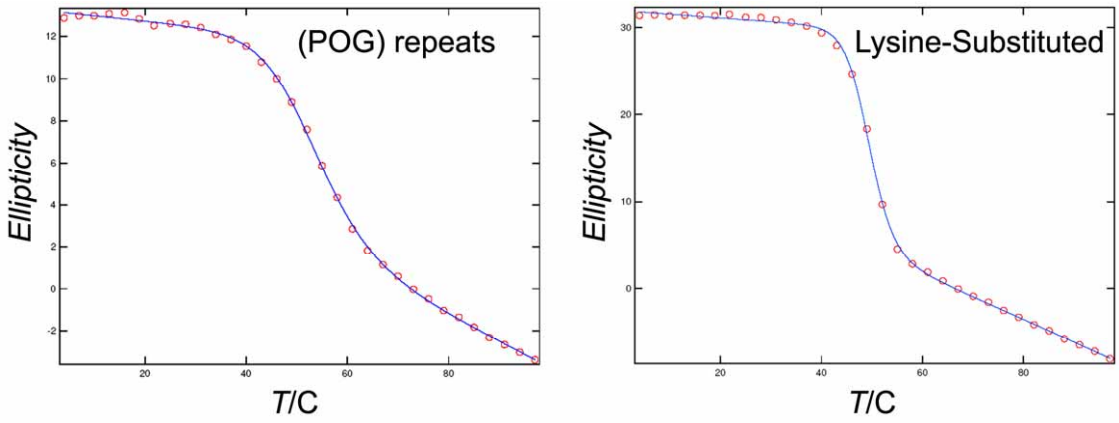

Fig. S1. Circular Dichroism (CD) Spectroscopy. Peptide solutions (0.25 mM in water) were stored at 4 °C for 16–24 h, incubated at room temperature for 2–4 h, and then heated to 37 °C for 16–24 h. CD melting curves were recorded on an Aviv Associates 202SF CD spectrometer. Spectra were recorded in 1-nm increments with a 3-s averaging time, 1-nm bandpass, and 0.1-cm path length. Ellipticity at 225 nm was monitored from 4–92 °C with at a rate of 1-°C/min, increments of 3 °C, and an equilibration time of 5 min. A comparison of these thermal denaturation curves indicates that the lysine-substituted sequence has a slightly lower T_m value (49 °C) compared to that of the $(POG)_{10}$ sequence (53 °C), indicative of an only slightly destabilized triple helix.