Manufacturing Stable and Functional Hydrogel Nanofibers from Metal Ion Containing Polymer Blends (CMMI-1462859)

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Hypothesis: The location of nanoparticles on fibers is determined by metal ion diffusion rate and reaction rate.

Transmission electron microscopy (TEM) images of nanoparticles produced from different metal ions in hydrogel fibers through different reactions. a) Calcium carbonate nanoparticles, b) hydroxyapatite, c) iron and d) ceria nanoparticles.

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