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## **Support information**

Tunable two-step shape and dimensional changes with temperature of PNIPAM/CNCs hydrogel

Yinghao Xu, Abdellah Ajji\* and Marie-Claude Heuzey\*

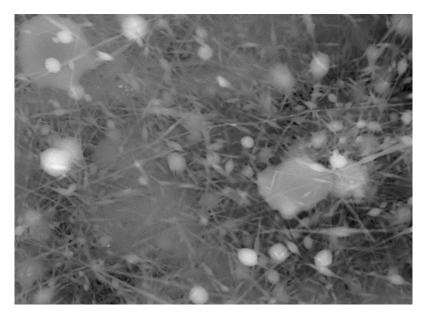


Figure S1. SEM image for PNIPAM/CNC with CNC proportion of 15wt%