

SUPPORTING INFORMATION

Figure S1. PMSC cross-linked by esterification process with NOCC and PDMS.

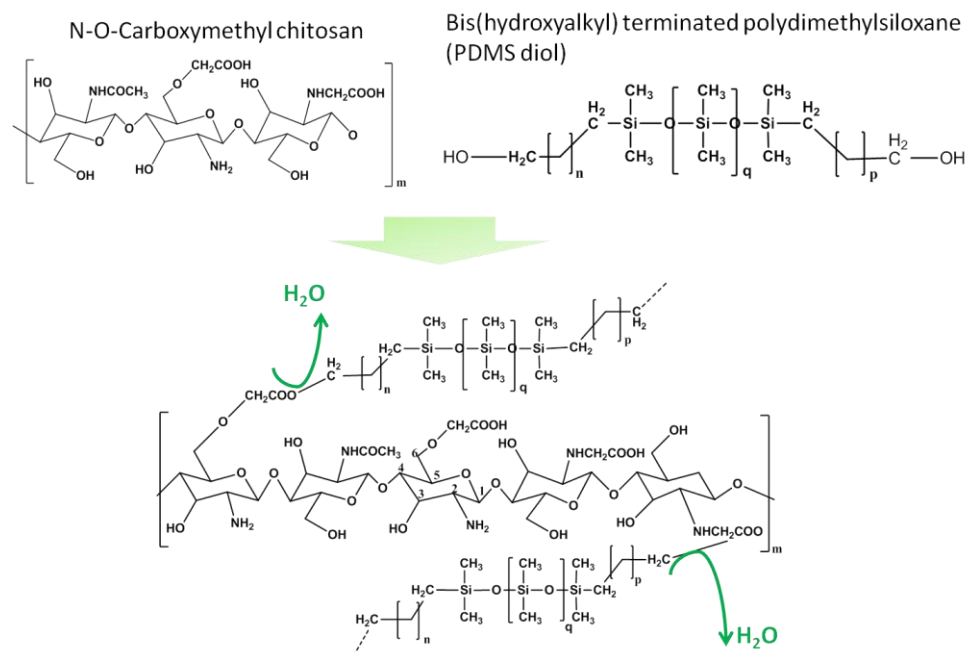


Figure S2. FTIR spectra of NOCC, PMSC-1, PMSC-2 and PMSC-3.

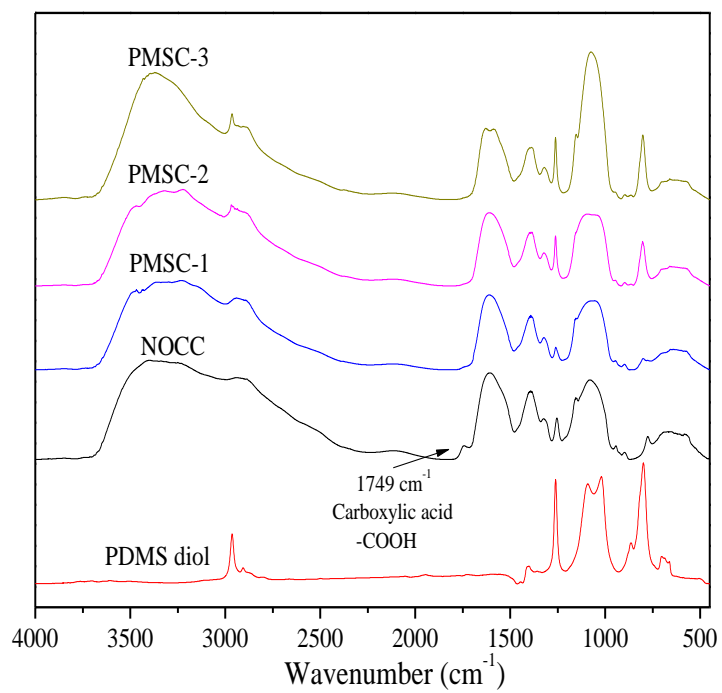


Figure S3. The schematic process of the formation of PMSC hydrogels. (b) The optical microscopic images of PMSC FITC-xerogel. (Because FITC dye is conjugated into the amino groups of NOCC, the darker color represents NOCC-poor area).

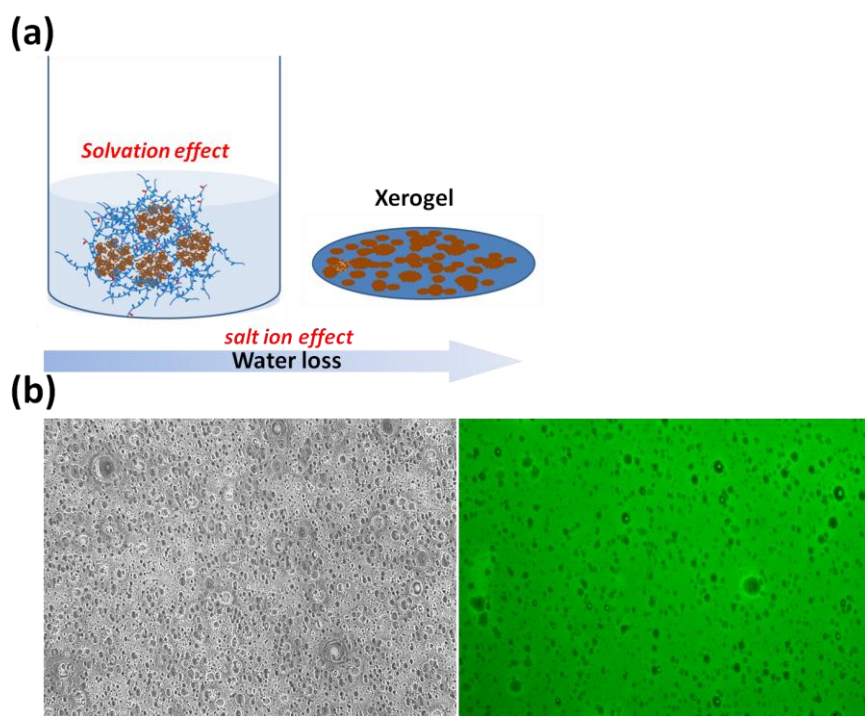


Figure S4. X-ray diffraction patterns of NOCC, PMSC-1, PMSC-2, and PMSC-3

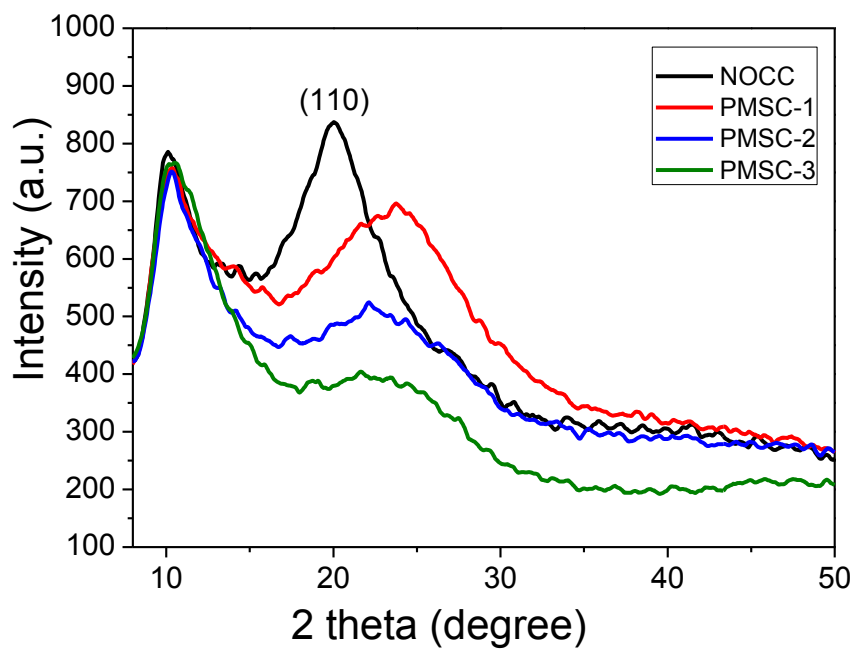


Figure S5. (a) Naked view of PMSC-2 and PMSC-3 after swollen in water for 24h. (b) The stain-stress curve of PMSC-1, PMSC-2, and PMSC-3 with an approximate swelling ratio of 1400%.

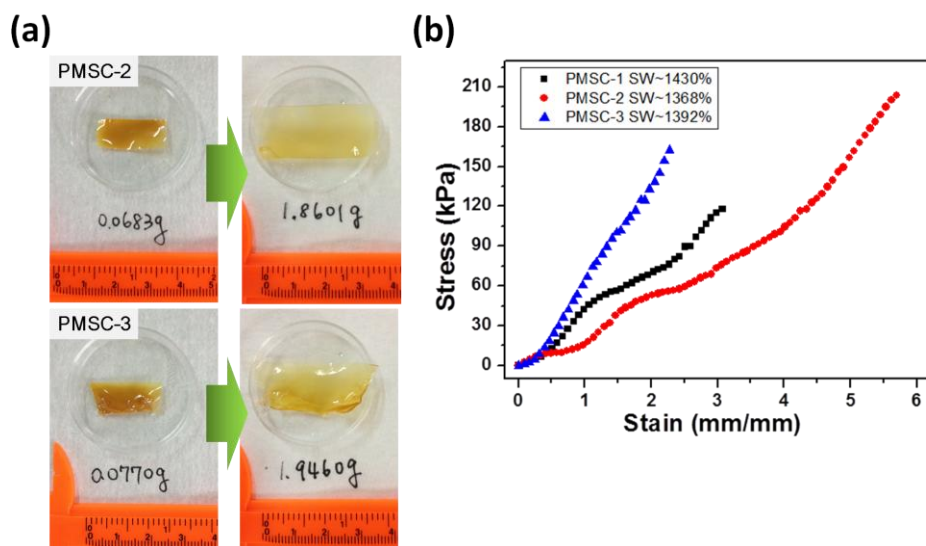


Figure S6. MTT tests were operated by incubating NOCC, PMSC-1, PMSC-2, and PMSC-3 solutions of 1mg/mL, 0.5mg/mL, and 0.1mg/mL with WS1 normal human dermal fibroblast (NHDF). The result demonstrated that compared with NOCC, all PMSC samples an excellent cell viability (>90%) for 24 hours.

