

An Injectable Metal-Phenolic Network Hydrogel for Coordinated PRP Delivery in Osteoarthritis Treatment

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Figure SI 1. Plasticity properties of SM@PRP.

Table SI 1. Analysis of binding strength between MPN and various growth factors

Protein	Binding energy (kcal/mol)	Predicted Ki
EGF	-7.721	$2.16 \times 10^{-6} \text{M}$
IGF-1	-10.116	$3.77 \times 10^{-8} \text{M}$
PDGF	-8.678	$4.28 \times 10^{-7} \text{M}$
TGF- β	-8.770	$3.67 \times 10^{-7} \text{M}$
VEGF	-8.135	$1.07 \times 10^{-6} \text{M}$

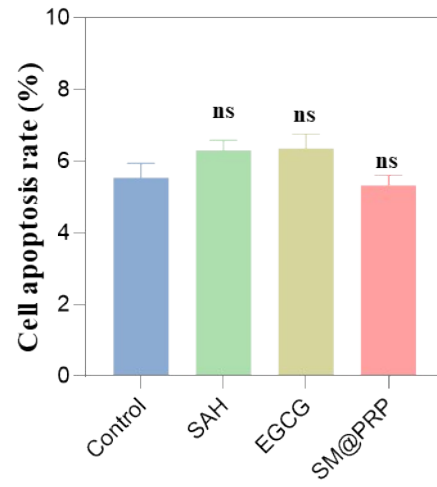


Figure SI 2. Statistical results of the apoptosis rate.

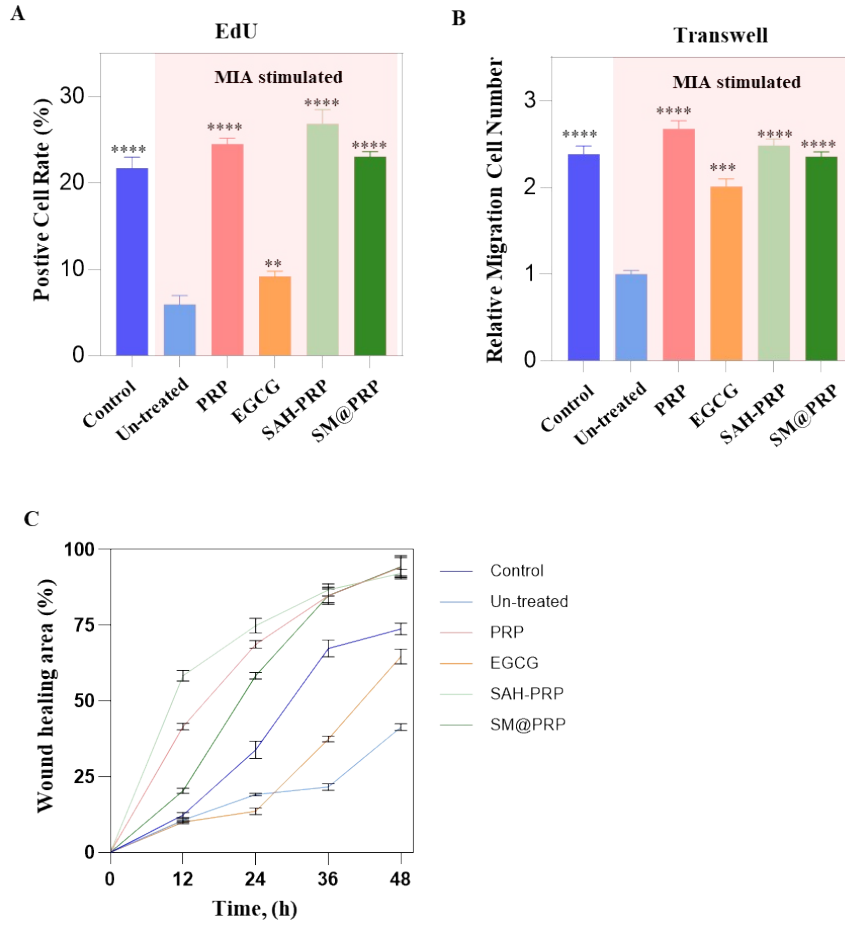


Figure SI 3. Statistical results of the EdU (A), Trans-well (B), and wound healing assays (C).
 : $p < 0.01$, *: $p < 0.001$, ****: $p < 0.0001$

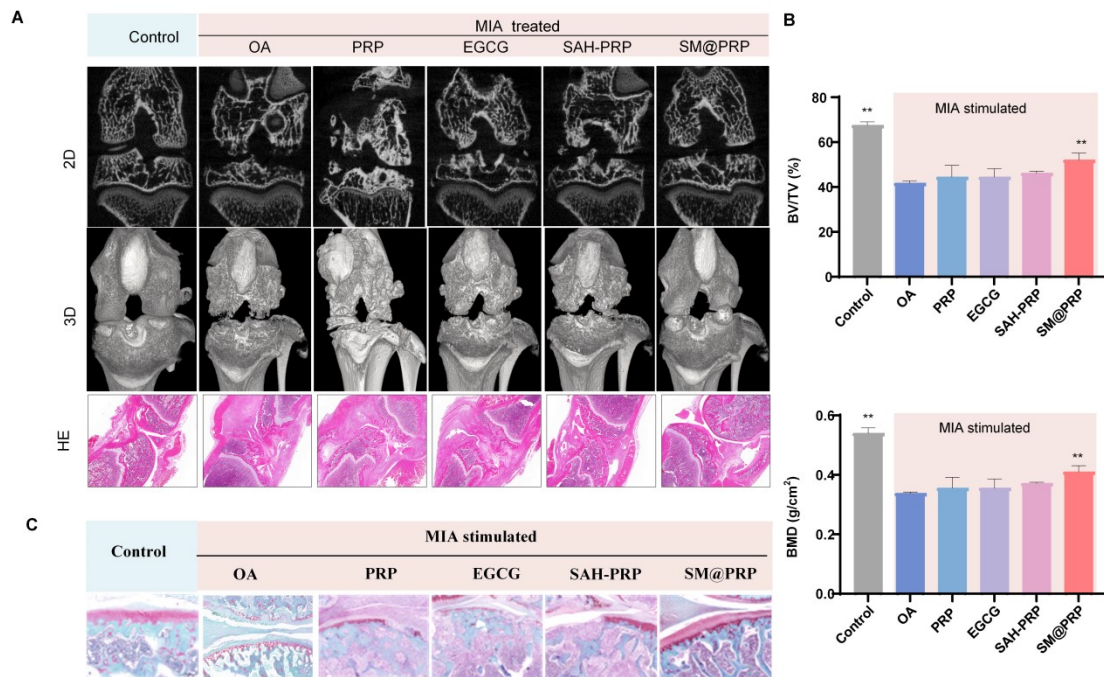


Figure SI 4. A. Representative micro-CT scanning, reconstructed images and HE of the rat knee joints at 7 days after treatment. B. Quantitative analysis of BV/TV and BMD of the rat knee joints in different groups at 7 days after treatment. C. Safranin O-Fast green of the rat knee joints at 7 days after treatment. **: $p < 0.01$

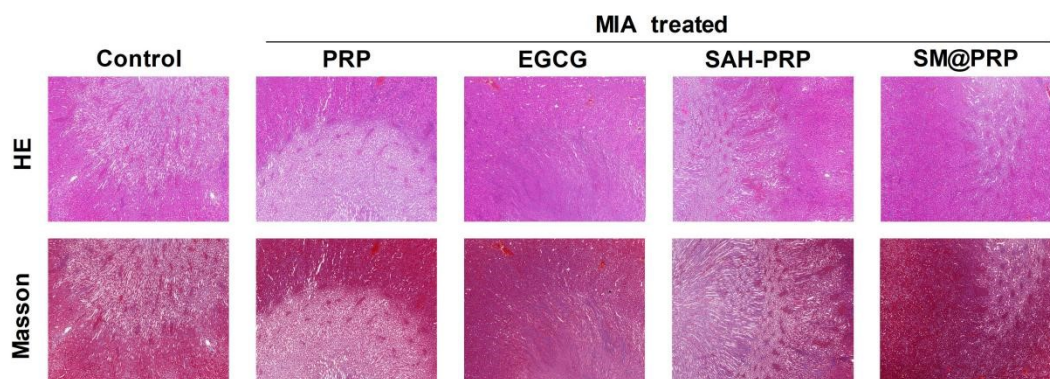


Figure SI 5. Renal toxicity 7 days after treatment in rats.

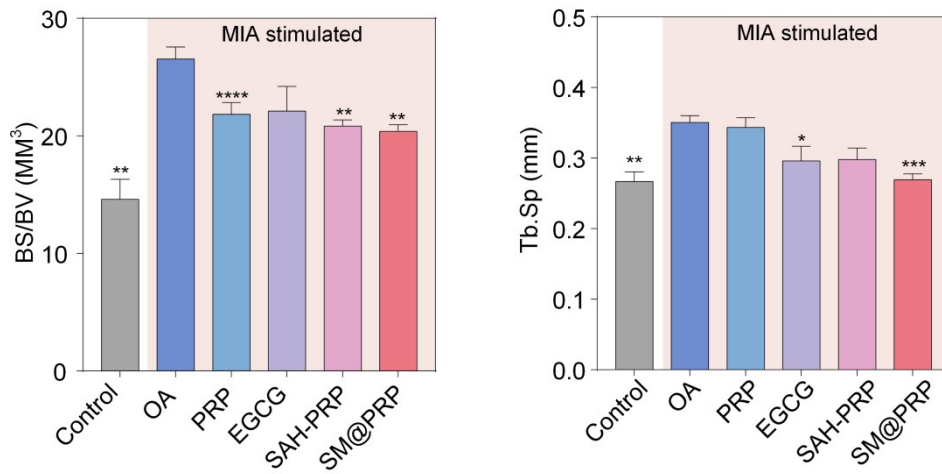


Figure SI 6. Quantitative analysis of BS/BV and Tb.Sp of the rat knee joints in different groups at 14 days after treatment. *: $p < 0.05$, **: $p < 0.01$, ***: $p < 0.001$, ****: $p < 0.0001$