Electronic Supplementary Information (ESI):

Electromagnetic Fields-assisted Cell-laden 3D Printed Poloxamer-407 Hydrogel for Enhanced Osteogenesis

Sayan Deb Dutta, Jin Bin, Keya Ganguly, Dinesh K. Patel, and Ki-Taek Lim

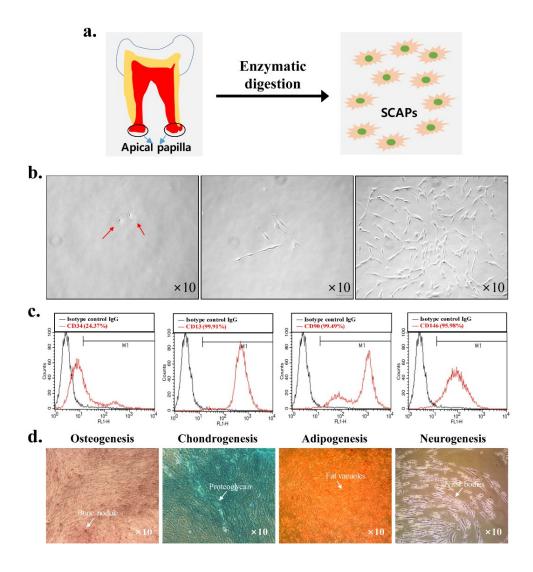


Fig. S1. Isolation and characterization of stem cells from apical papilla (SCAPs). (a) Schematic presentation of SCAPs isolation from human molar tooth, (b) The primary culture of SCAPs at indicated time interval (magnification $\times 10$), (c) Flow cytometry analysis of SCAPs, and (d) The multilineage differentiation potential of SCAPs after 21 days of culture under different induction media (magnification $\times 10$).

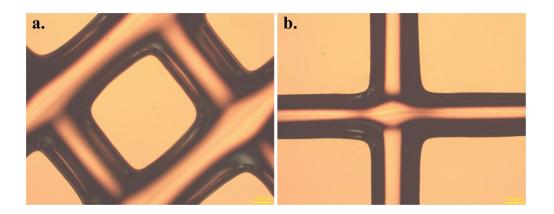


Fig. S2. Optical micrographs of the **(a)** pore geometry, **(b)** cross-connecting strand at a printing speed of 5 mm s⁻¹. Scale bar: $100 \mu m$.

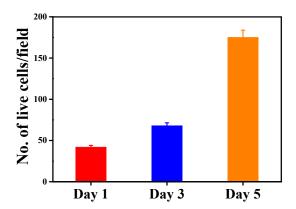


Fig. S3. Quantification of Live/Dead assay at indicated time intervals.

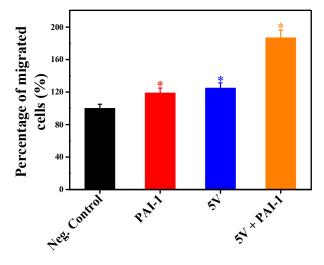


Fig. S4. Quantification of transwell cell migration assay after 12h. Data are mean \pm SD of triplicated experiments, statistical significance at *p < 0.05.