Electronic Supplementary Materials

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Biomimetic microchannel network with functional endothelium formed by sacrificial electrospun fibers inside 3D gelatin methacryloyl (GelMA) hydrogel models

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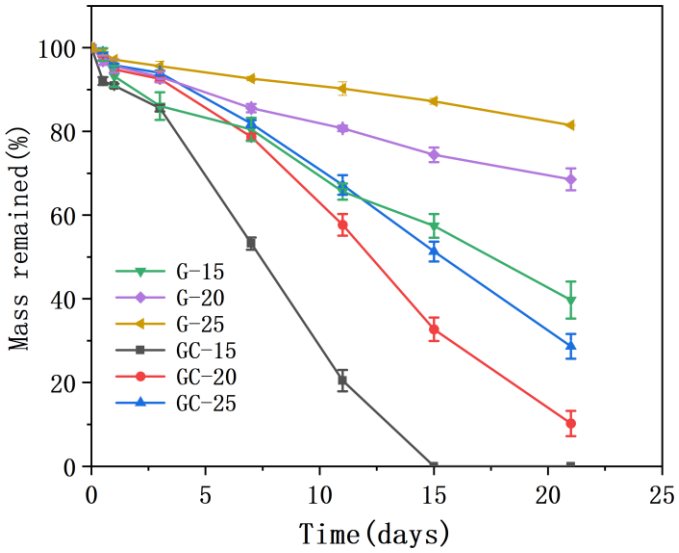

Fig. S1 Degradability of pure GelMA hydrogel and microchannel network GelMA hydrogel scaffolds after swelling ratio.

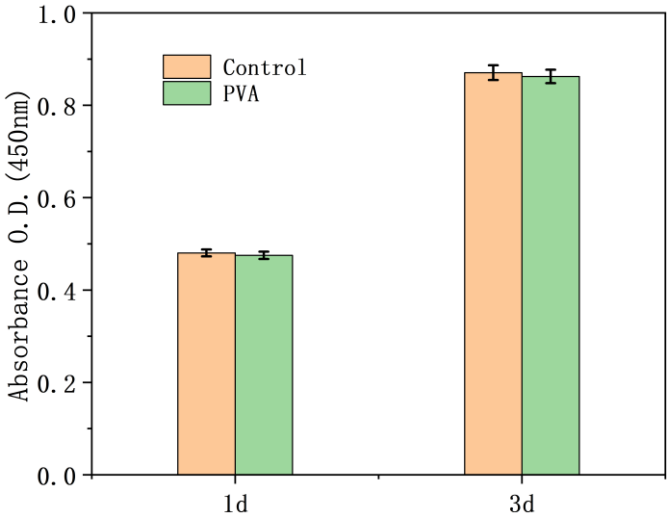

Fig. S2 Cell viability on PVA fiber. Proliferation of HUVECs in PVA fiber extracts.

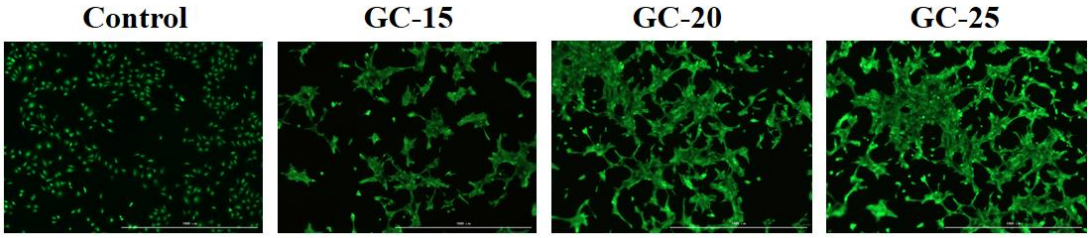

Fig. S3 Representative images of live/dead stained HUVECs in the blank and GC-15, GC-20, and GC-25 scaffold surface at the 3 day time points. Scale bars represent 1000 μm.

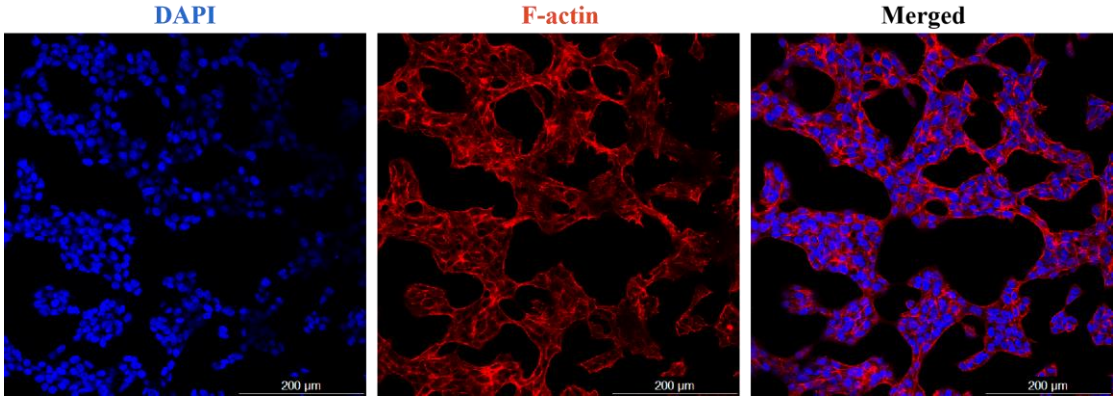

Fig. S4 Representative images of DAPI/F-actin stained HUVECs in GC-20 scaffold surface at the 3 day time points. Scale bars represent 200 μm.

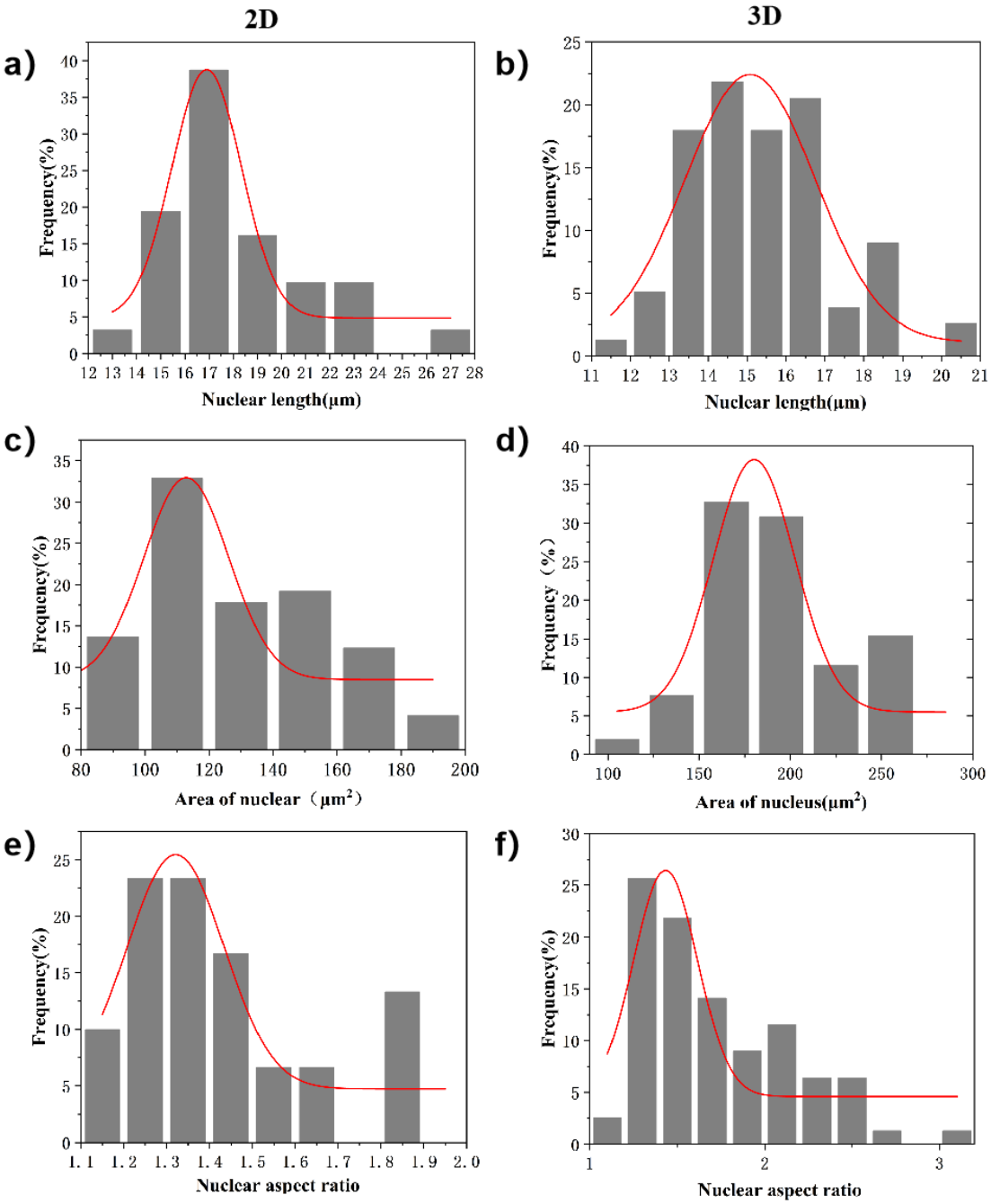

Fig. S5 Quantification of nuclear morphology of HUVECs on the scaffold surface (2D) and intra-scaffold microchannel (3D) after ring/tubing formation.