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DLP-printed macroencapsulated human liver organoids preserve hepatic stellate cell quiescence for transplantation in immunocompetent mice

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Running title: DLP-printed organoids maintain HSC quiescence

Supplementary File

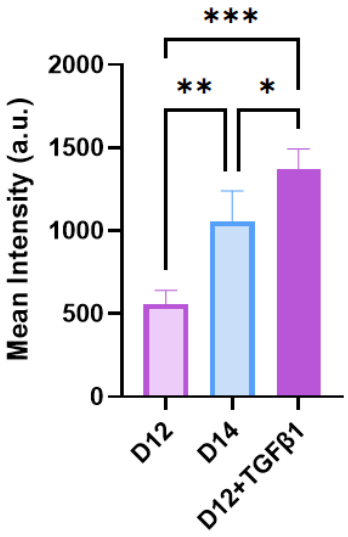

Figure S1 Quantitative analysis of immunofluorescence intensity of α-SMA staining for HSCs at different days. Data are mean ± SD; ns, not significant; *p < 0.05, **p < 0.01, ***p < 0.001.

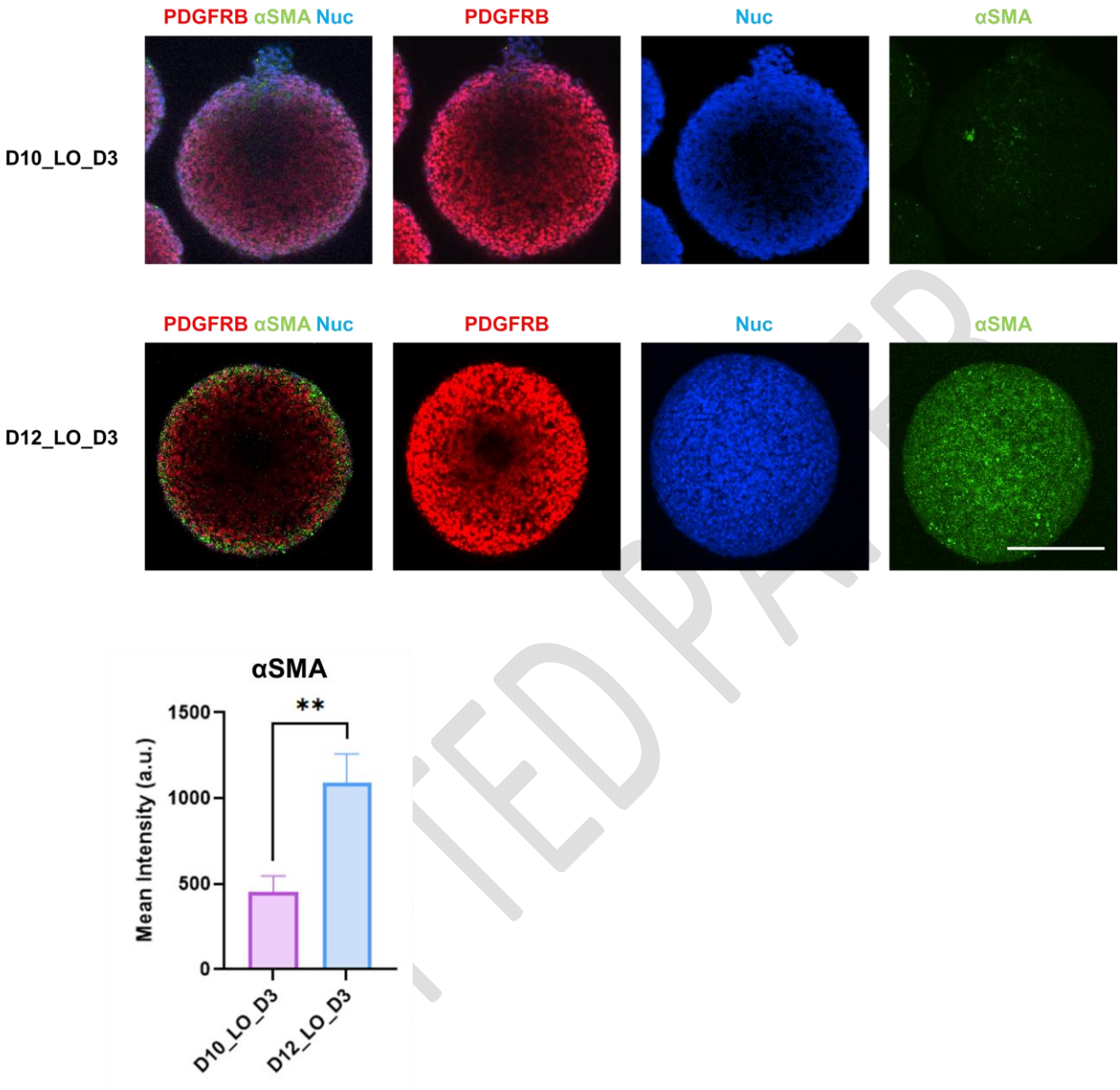

Figure S2 Quantitative analysis of immunofluorescence intensity of α-SMA staining for HSCs at different days. The upper panel is the single immunofluorescence image of Figure 2b, scale bars, 50 μm; the lower one presents αSMA fluorescence quantification. The Data are mean ± SD; **p < 0.01.

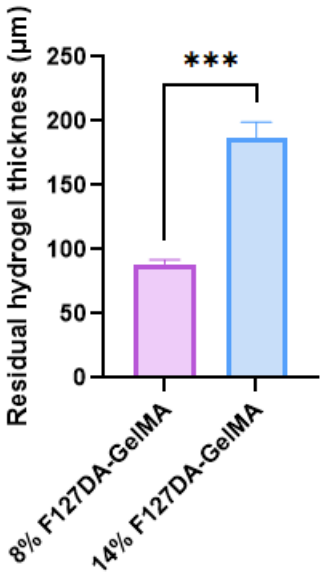

Figure S3 Quantitative analysis of the residual hydrogel scaffolds after in vivo implantation. Data are mean ± SD; ***p < 0.001.

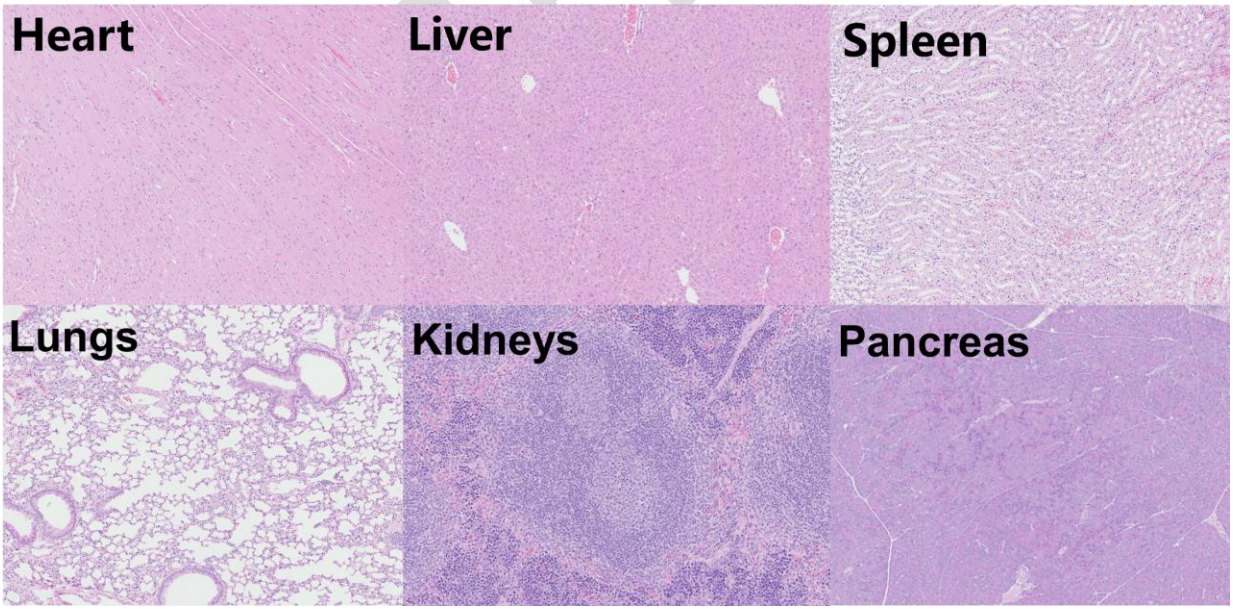

Figure S4 A representative histological HE staining of major tissues after in vivo implantation of F127DA. Scale bar, 200 μm.

Table S1 Primer list

Symbol	Forward sequence (5'-3')	Reverse sequence (5'-3')
KDR	GGAACCTCACTATCCGCAGAGT	CCAAGTTCGTCTTTTCCTGGGC
ACTA2	CTATGCCTCTGGACGCACAACT	CAGATCCAGACGCATGATGGCA
VIM	AGGCAAAGCAGGAGTCCACTGA	ATCTGGCGTTCCAGGGACTCAT
PDGFRB	TGCAGACATCGAGTCCTCCAAC	GCTTAGCACTGGAGACTCGTTG
NGFR	CCTCATCCCTGTCTATTGCTCC	GTTGGCTCCTTGCTTGTTCTGC
ALCAM	TCCAGAACACGATGAGGCAGAC	GTAGACGACACCAGCAACAAGG
RELN	GTCTACCTTCCACTCTCCACCA	GTCCAGCATCACAAATCCCTCG
HGF	GAGAGTTGGGTTCTTACTGCACG	CTCATCTCCTCTTCCGTGGACA
COL1A1	GATTCCCTGGACCTAAAGGTGC	AGCCTCTCCATCTTTGCCAGCA
PPARG	AGCCTGCGAAAGCCTTTTGGTG	GGCTTCACATTCAGCAAACCTGG
LOXL2	TGACTGCAAGCACACGGAGGAT	TCCGAATGTCCTCCACCTGGAT
NCAM1	CATCACCTGGAGGACTTCTACC	CAGTGTACTGGATGCTCTTCAGG
TIMP1	GGAGAGTGTCTGCGGATACTTC	GCAGGTAGTGATGTGCAAGAGTC
GFAP	CTGGAGAGGAAGATTGAGTCGC	ACGTCAAGCTCCACATGGACCT
PCDH7	GAGGAGTCAGAAACACCAAGCAG	TCAGGGCTACATCTGGAAGAGG
GAPDH	GTCTCCTCTGACTTCAACAGCG	ACCACCCTGTTGCTGTAGCCAA
P75NTR	CCTCATCCCTGTCTATTGCTCC	GTTGGCTCCTTGCTTGTTCTGC