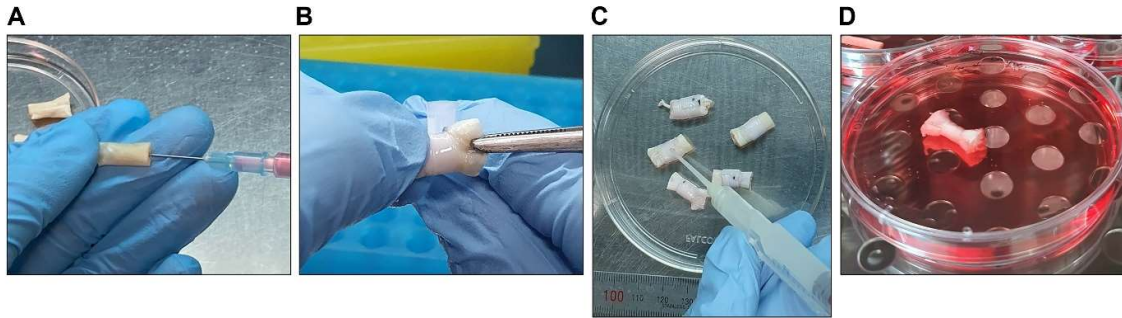


**Supplemental information**

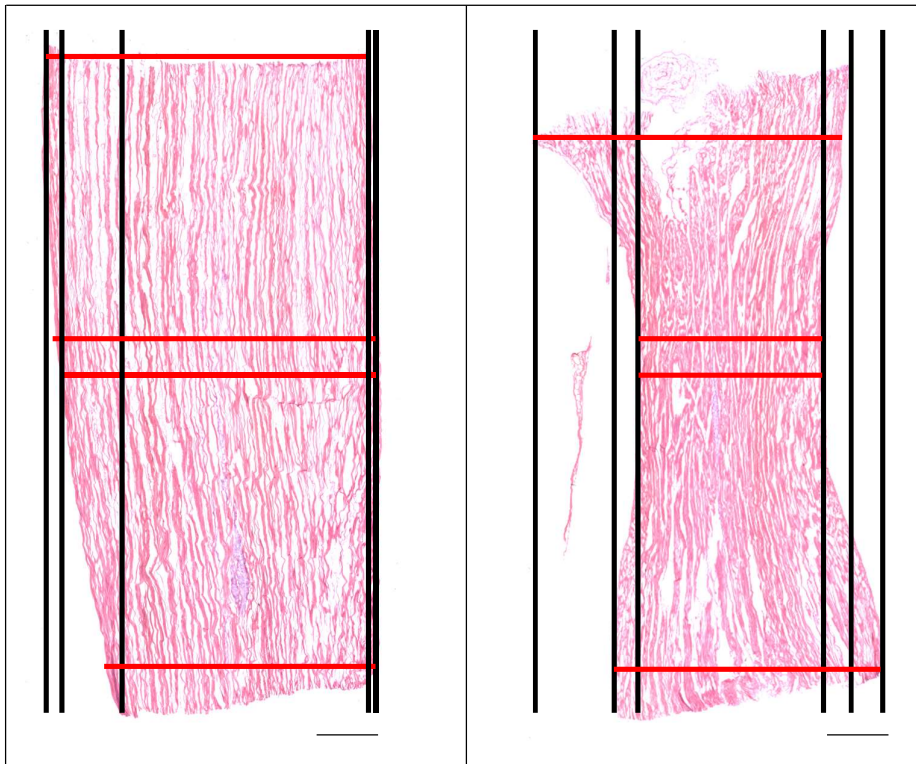
**Scaffold-induced compression enhances  
ligamentization potential of decellularized  
tendon graft reseeded with ACL-derived cells**

**Jinsung Park, Hyunsoo Soh, Sungsin Jo, Subin Weon, Seung Hoon Lee, Jeong-Ah Park, Myung-Kyu Lee, Tae-Hwan Kim, Il-Hoon Sung, and Jin Kyu Lee**

## Supplementary figures



**Supplementary figure 1. Experimental design. Related to Figure 1.** (A) A total of  $1 \times 10^6$  ACL-derived cells was injected with cell suspension into the tendon allograft. The tendon allograft-injected ACL-derived cells were manually wounded with a nanofiber scaffold 4-5 times (B) and sealed with Tissel, a sealant solution (C). (D) The tendon allograft was incubated in DMEM containing 10% serum for one, seven, or 14 days.



Scale bar: 1.5 mm

**Supplementary figure 2. Compression ratio measurement. Related to Figure 1.** The ratio of inner to outer diameter of samples from the compression and non-compression groups was measured. The locations for these measurements are demonstrated by the parallel red lines in the figure. Frozen tissue blocks were cryo-sectioned longitudinally at uniform thickness. The most representative slide with the broadest tissue diameter was chosen. Image J software was used for measurements. The ratio was 73.51% in the comparison group and 98.54% in the non-compression group.

**Supplementary table**

**Primer sequences for RT-qPCR**

YAP-F	5'-TGCTGTCCCAGATGAACGTC-3'
YAP-R	5'-GGTTCATGGCAAACGAGGG-3'
COL1-F	5'-AGTGGTTTGGATGGTGCCAA-3'
COL1-R	5'-GCACCATCATTTCCACGAGC-3'
COL3-F	5'-CTTCTCTCCAGCCGAGCTTC-3'
COL3-R	5'-CCAGTGTGTTTCGTGCAACC-3'
TNC-F	5'-GGTTGCTGGAGACTGTGGAA-3'
TNC-R	5'-AGGTTTTCCAGAAGGGGCAG-3'
TNMD-F	5'-AATGAACAGTGGGTGGTCCC-3'
TNMD-R	5'-TTGCCTCGACGGCAGTAAAT-3'
SMA-F	5'-GTGATGGTGGGAATGGGACAA-3'
SMA-R	5'-AGTGGTGCCAGATCTTTTCCA-3'
GAPDH-F	5'-CAAGATCATCAGCAATGCC-3'
GAPDH-R	5'-CTGTGGTCATGAGTCCTTCC-3'

**Table S1. All primer sequence information mentioned in the article. Related to STAR Methods.**