

Figure S1. Appearance of sandwich-structure hydrogel dressing.

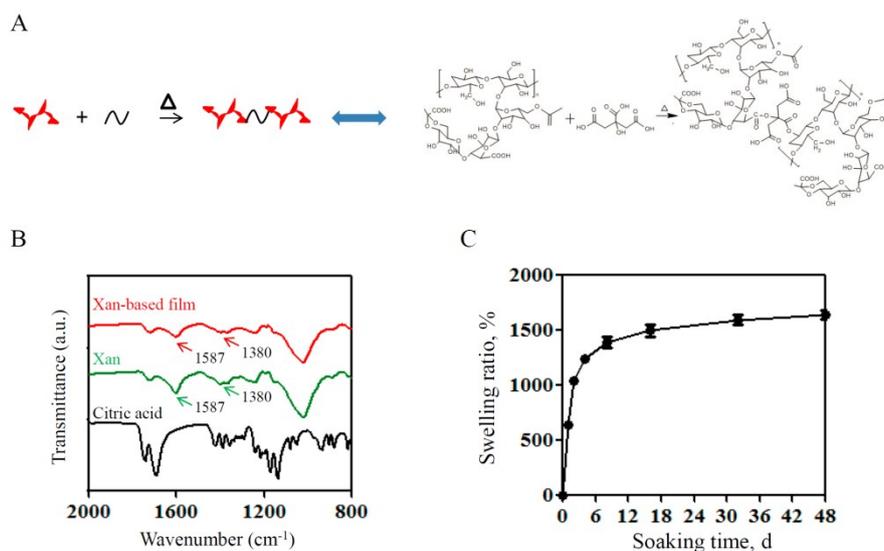


Figure S2. Synthesis of xan-based film. (A) Crosslinking reaction of xan and citric acid. (B) FTIR spectrometry to verify the synthesis of xan-based film. (C) Swelling ratio of xan-based film.

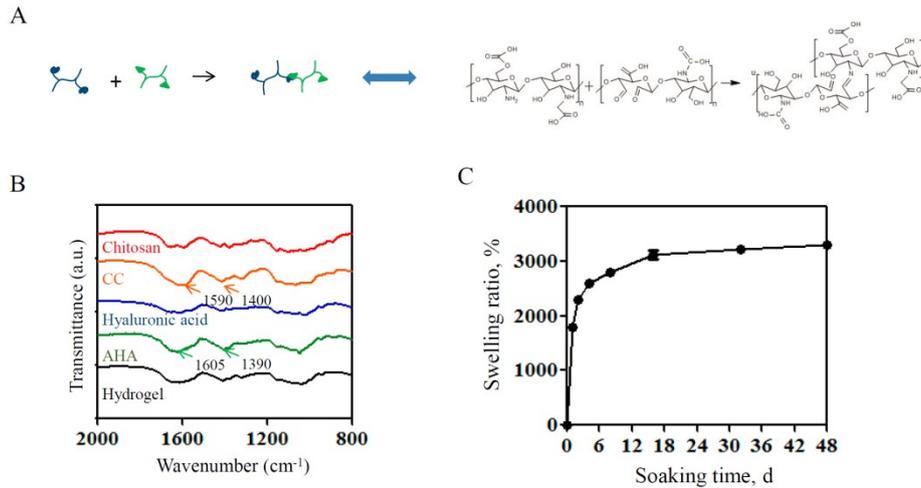


Figure S3. Synthesis of CC/AHA hydrogel. (A) Schiff's base reaction of CC and AHA. (B) FTIR spectrometry to verify the synthesis of CC/AHA hydrogel. (C) Swelling ratio of CC/AHA hydrogel.

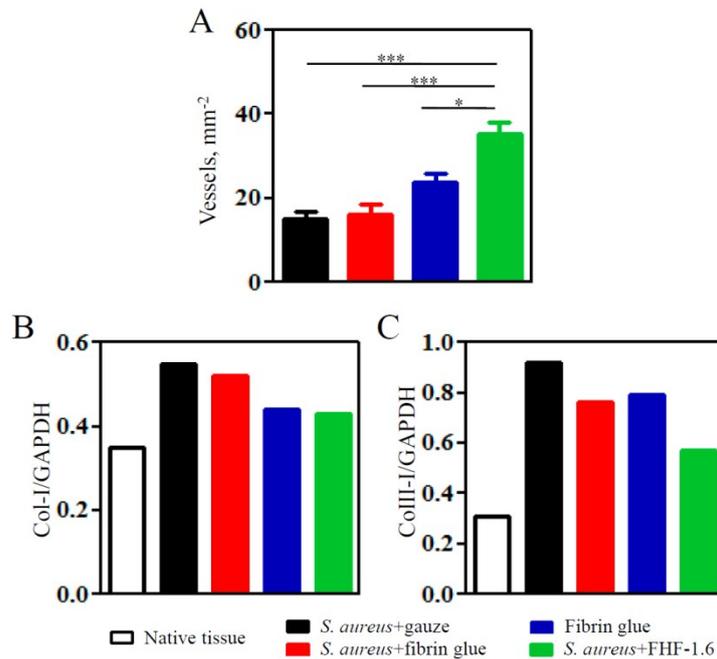


Figure S4. Quantitative analysis results. (A) Vessel density in granulation tissues, analyzed by one-way ANOVA. (B) Relative Collagen-I expression, analyzed by Image J. (C) Relative Collagen-III expression, analyzed by Image J. *, $p < 0.05$; ***, $p < 0.001$.

Gene	Genebank#	Forward (5'-3')	Reverse (5'-3')
β -actin	NM_001101683	CCAAAGTCCCAAAGTTC TGCA	CGATATTTGGAATGACTAT CAAAGAAA
IL-1 β	NM_001082201	CCTCTCTTACCTCTGCCAT TC	CCTCTGGTCTCCTTGGATTA AA
IL-17 β	XM_002710301	CAAAGCCATTCGCCCGTA	CAGGGAGATAGACTCCTCT TGT
Inf- γ	NM_001081991	CCTCACTCTCTCTGAAGC AATG	AGGTGTTCTGTTTCTCTGGT TAG
TNF	NM_001082263	CCTTCCTCTCCTCAGATG TTTC	GCGCTGAGCTTCCAAATAA AT

Table S1. Primer sequences of proinflammatory cytokines.