Supplementary information

Table 1 Sequence of Primers for RT-PCR.

Gene	Primers (F = Forward; R = Reverse)
Nestin	F: GTGACGGCACTCCCATGTG
	R: TTTTTGAAGCGGAGGCATTAC
GFAP	F: CAGCAGCTTGCGTTAGAATGAG
	R: CAACAGTTTCCATAACAACAGGAATC
β-tubulin III	F: GGCCTGACAATTTCATCTTTGG
	R: ACCACATCCAGGACCGAATC
NF-L	F: ACCAGCGTGGGAAGCATAAC
	R: GCGGGTGGACATCAGATAGG
NF-M	F: CAGAAAACTCCTGGAGGGTGAA
	R: TGGGTTTCTGAATCTTACTGGATATTG
NF-H	F: GTCATCAGGCCGACATTGC
	R: TCCAGAGCCATCTTGACATTGA
ALP	F: ACCACCACGAGAGTGAACCA
	R: CGTTGTCTGAGTACCAGTCCC
Runx2	F: TGGTTACTGTCATGGCGGGTA
	R: TCTCAGATCGTTGAACCTTGCTA
AP2	F: CACCGACCTCCAGGACTACA
	R: CAGTCTCCAGACATTCCACCA
LPL	F: TCATTCCCGGAGTAGCAGAGT
	R: GGCCACAAGTTTTGGCACC
Sm22	F: ATGGCACGGTGCTATGTGAG
	R: CCCACCCAGATTCATCAGCG
Acta2	F: AAAAGACAGCTACGTGGGTGA
	R: GCCATGTTCTATCGGGTACTTC
Sox9	F: AGCGAACGCACATCAAGAC
	R: CTGTAGGCGATCTGTTGGGG
GAPDH	F: AACGACCCCTTCATTGAC
	R: TCCACGACATACTCAGCAC

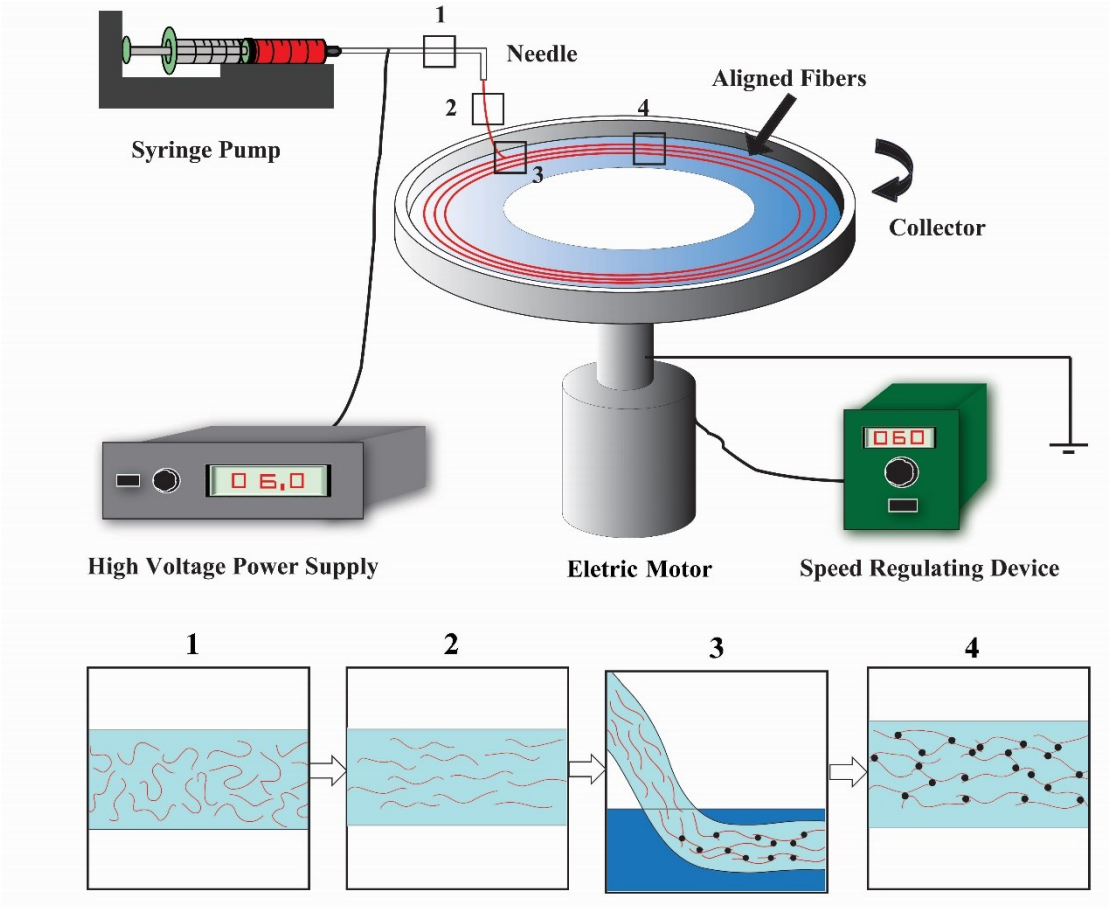

Fig.s1 A schematic diagram of the electrospinning equipment and preparation process. 1. The fibrinogen molecule was randomly distributed in the electrospinning solution. 2. The molecule in the solution was straightened under the electric potential. 3-4. Fibrin fiber formed in the collection solution by the reaction of thrombin and fibrinogen.

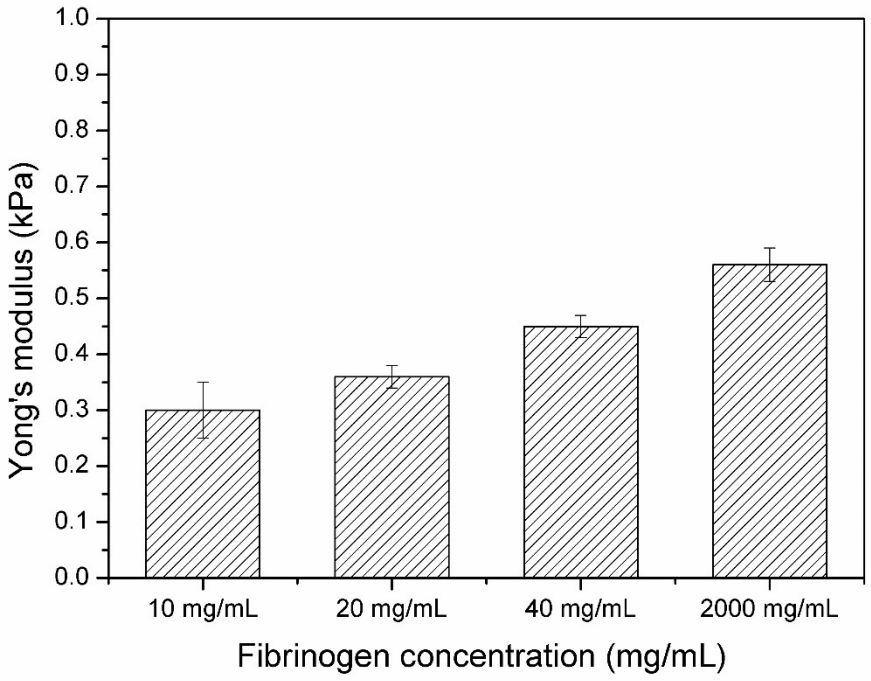

Fig.s2 Young's modulus of RFG fabricated with different concentrations of fibrinogen. RFG prepared with fibrinogen concentrations of 2000 mg/mL, 40 mg/mL, 20 mg/mL and 10 mg/mL, the Young's modulus are 0.56 ± 0.03 kPa, 0.45 ± 0.02 kPa, 0.36 ± 0.02 kPa and 0.30 ± 0.05 kPa respectively.