

# Supplementary information

## Lyophilized gelatin@non-woven scaffold to promote spheroids formation and enrich cancer stem cell incidence

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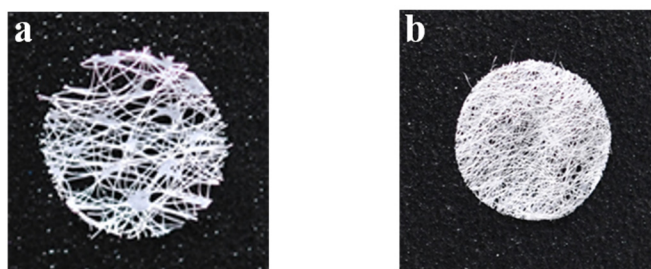
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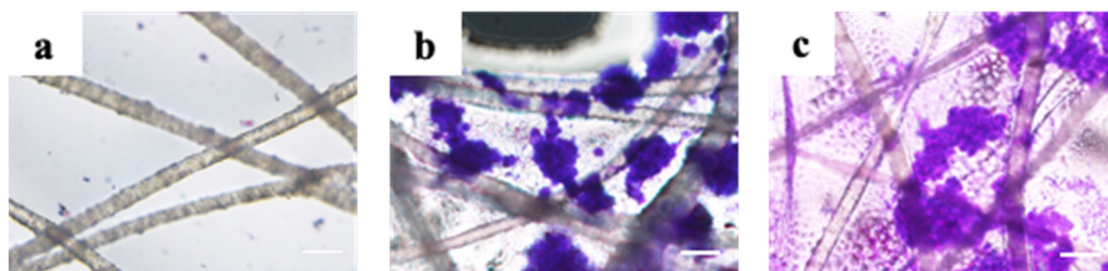
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**Figure S1.** Digital-image-characterization of lyophilizing gelatin@non-woven fabric (NWF) scaffold. (a) primary NWF, (b) gelatin@NWF.



**Figure S2.** Cristal violet stained DU 145 cells which were grown on (a) NWF, (b) 6% gelatin@NWF, and (c) 12% gelatin@NWF, scale bar=50  $\mu$ m.

**Table S1.** Mechanical property of gelatin@NWF

Material	TS (MPa)	EBA%
gelatin film	0.81 $\pm$ 0.14	32.12 $\pm$ 4.51
gelatin@NWF	0.98 $\pm$ 0.25	46.77 $\pm$ 2.14

TS: tensile strength; EBA: elongation at break

**Table S2.** Primers and conditions of qPCR

Gene	Primer	Sequence (5'- 3')	T <sub>M</sub> (°C)
OCT4	forward	AACCGAGTGAGAGGCAACCT	60.0
	reverse	ACAGAACCACACTCGGACCA	60.0
SOX2	forward	TGACCAGCTCGCAGACCTAC	60.0
	reverse	TCGGACTTGACCACCGAAC	60.0
ALDH1A1	forward	CACAGGATCAACAGAGGTTGG	60.0
	reverse	GTCCAAGTCGGCATCAGCTA	56.0
GAPDH	forward	CCAGGTGGTCTCCTCTGACTTCAAC	62.5
	reverse	AGGGTCTCTCTCTTCCTCTTGCTC	62.0