

Supplementary information

Nanobeads-on-string composites for tendon tissue engineering

Chiara Rinoldi^a, Ewa Kijeńska^a, Adrian Chlanda^a, Emilia Choinska^a, Nabyl Khenoussi^b, Ali Tamayol^{c,d,e,f}, Ali Khademhosseini^{c,d,e,g,h}, Wojciech Swieszkowski^{a*}

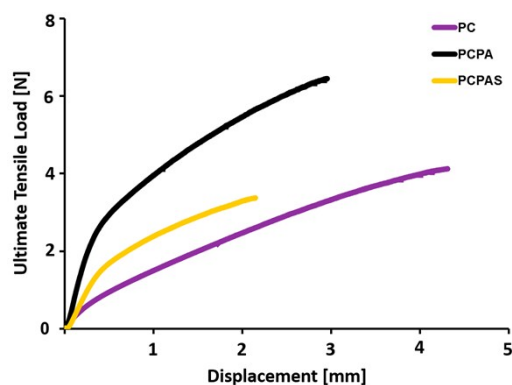


Figure S1. Mechanical properties of electrospun scaffolds: load-displacement curves. ($n=5$)

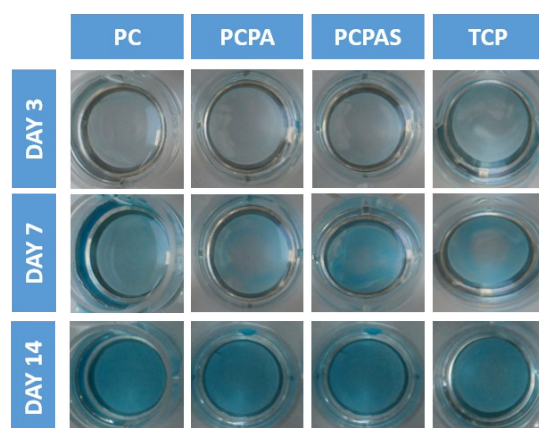


Figure S2. GAG deposition by L929 fibroblasts cultured on electrospun structures and TCP: Alcian Blue staining performed after 3, 7 and 14 days of culture. ($n=3$)

Material	Fiber dimension [nm]	Contact angle [°]	Elastic modulus [MPa]	Ultimate Tensile Stress [MPa]	Ultimate Strain [%]
PC	139 ± 13	139.8 ± 1.4	2.5 ± 0.5	10.3 ± 1.0	83.3 ± 8.5
PCPA	126 ± 14	133.2 ± 2.8	4.7 ± 0.8	15.6 ± 0.6	55.4 ± 6.3
PCPAS	136 ± 17	126.1 ± 1.9	41.0 ± 3.9	8.1 ± 0.9	40.6 ± 4.7

Table S1. Morphological, mechanical and surface properties of PC, PCPA and PCPAS nanofibrous scaffolds.