Supporting Information

Schwann cell-matrix coated PCL-MWCNT multifunctional nanofibrous scaffolds for neural regeneration

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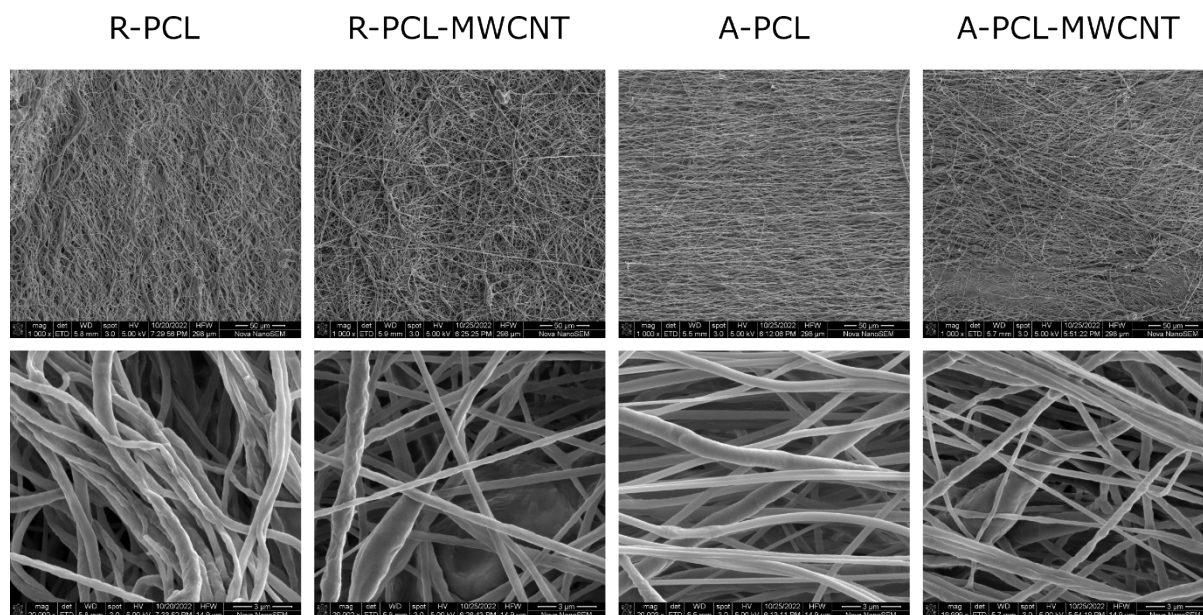[f] Department of Chemistry, Faculty of Science, King Abdelaziz University, Jeddah 21589, Saudi Arabia
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Supporting Information

Figure S1. SEM images of different scaffolds with different morphologies (random and aligned) with and without MWCNT. Scale bars – first row (50 μm) and second row (3 μm).

Table S1. Static water contact angle measured on different scaffolds with different morphologies (random and aligned) with and without MWCNT and ACM coating. Data is presented as average ± standard deviation (n=3).

Samples	Left angle (°)	Right angle (°)
R-PCL	130.8 ± 3.7	132.4 ± 3.2
R-PCL-MWCNT	137.3 ± 3.2	135.7 ± 4.1
R-PCL+ ACM	42.0 ± 3.2	41.6 ± 1.06
R-PCL-MWCNT+ACM	53.9 ± 1.7	54 ± 2.2
A-PCL	132.7 ± 0.4	132.2 ± 1.6
A-PCL-MWCNT	129.6 ± 2.1	129.2 ± 3.3
A-PCL+ACM	39.4 ± 2.4	37.2 ± 2.8
A-PCL-MWCNT+ACM	50.1 ± 0.6	53.6 ± 1.2

Table S2. Mechanical data in tensile strength and elongation at break of different scaffolds with different morphologies (random and aligned) with and without MWCNT. Data is presented as average ± standard deviation (n=3).

Samples	Tensile strength (MPa)	Elongation at break (%)
R-PCL	3.31 ± 1.75	131.05 ± 21.66
R-PCL-MWCNT	6.10 ± 1.70	145.37 ± 33.62
A-PCL	15.73 ± 5.74	46.74 ± 3.38
A-PCL-MWCNT	5.20 ± 2.40	72.44 ± 13.39

	Alcian blue	Masson's trichome	Picrosirius red	Safranin O
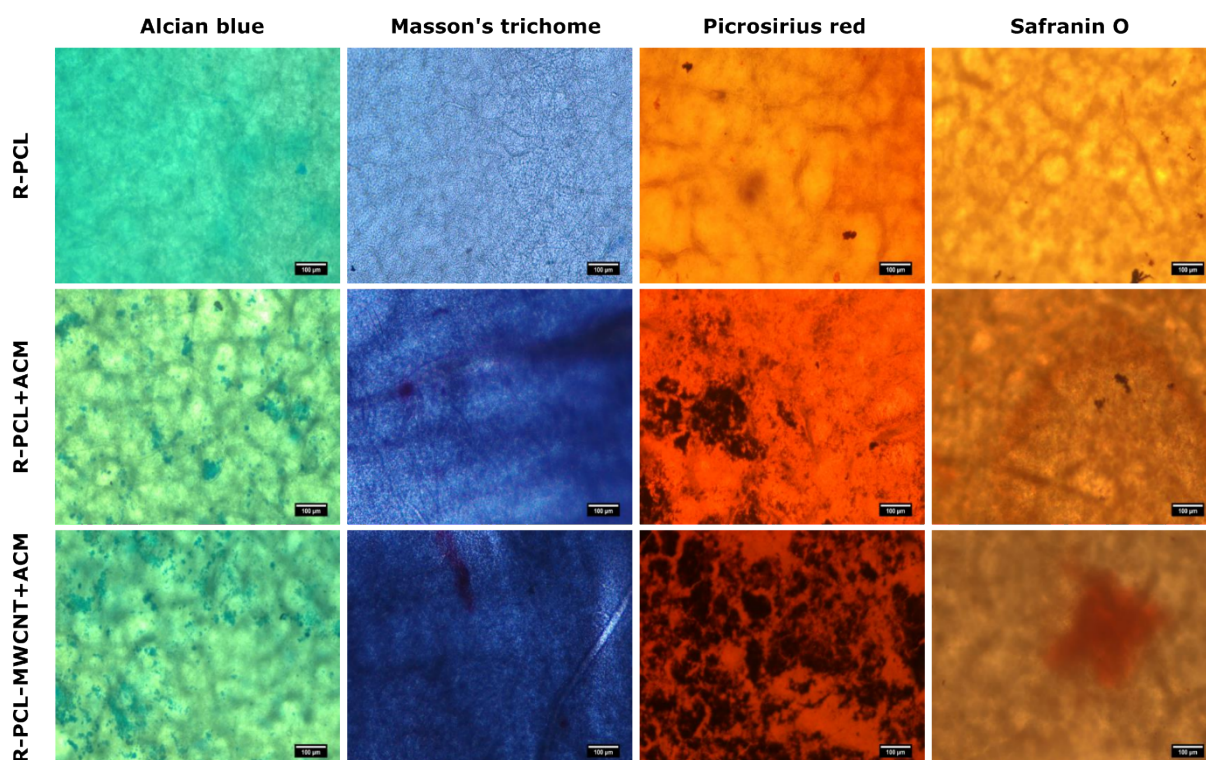
Figure S2. Cytochemical staining of different scaffolds with and without MWCNT and ACM coating showing different components of ACM.