Electronic Supplementary Material (ESI) for Journal of Materials Chemistry B.

Supplementary Information

Laminin-coated Nerve Guidance Conduits Based on Poly(L-lactide-co-glycolide) Fibers and Yarns for Promoting Schwann Cells Proliferation and Migration

Tong Wu, Dandan Li, Yuanfei Wang, Binbin Sun, Dawei Li, Yosry Morsi, Hany El-Hamshary, Salem S. Al-Deyab, Xiumei Mo

Table S1 Atomic ratios of carbon, oxygen, and nitrogen on the surface of PLGA fibers or yarns with physical adsorbed laminin by X-ray photoelectron spectrometry

Samples	PLGA fibers with physical adsorbed laminin	PLGA yarns with physical adsorbed laminin
C atomic concentration (%)	62.72	64.37
N atomic concentration (%)	0.67	0.36
O atomic concentration (%)	36.61	35.72

Table S2 The amounts of physical adsorbed laminin on different samples

Samples	PLGA fibers with physical adsorbed laminin	PLGA yarns with physical adsorbed laminin
Amounts of laminin per mg of PLGA fibers/yarns	1.61 ± 0.39 μg	1.01 ± 0.24 μg

Table S3 The tensile stress, strain and modulus of PLGA fibers and yarns

Samples	Stress (MPa)	Strain (%)	Modulus (MPa)
PLGA fibers	5.25 ± 0.90	292.07 ± 10.50	70.83 ± 9.10
LC-PLGA fibers	6.52 ± 0.81	174.38 ± 22.79	154.61 ± 17.43
PLGA yarns	18.76 ± 3.70	233.62 ± 26.48	357.59 ± 48.32
LC-PLGA yarns	24.08 ± 5.01	183.13 ± 20.44	697.66 ± 92.60

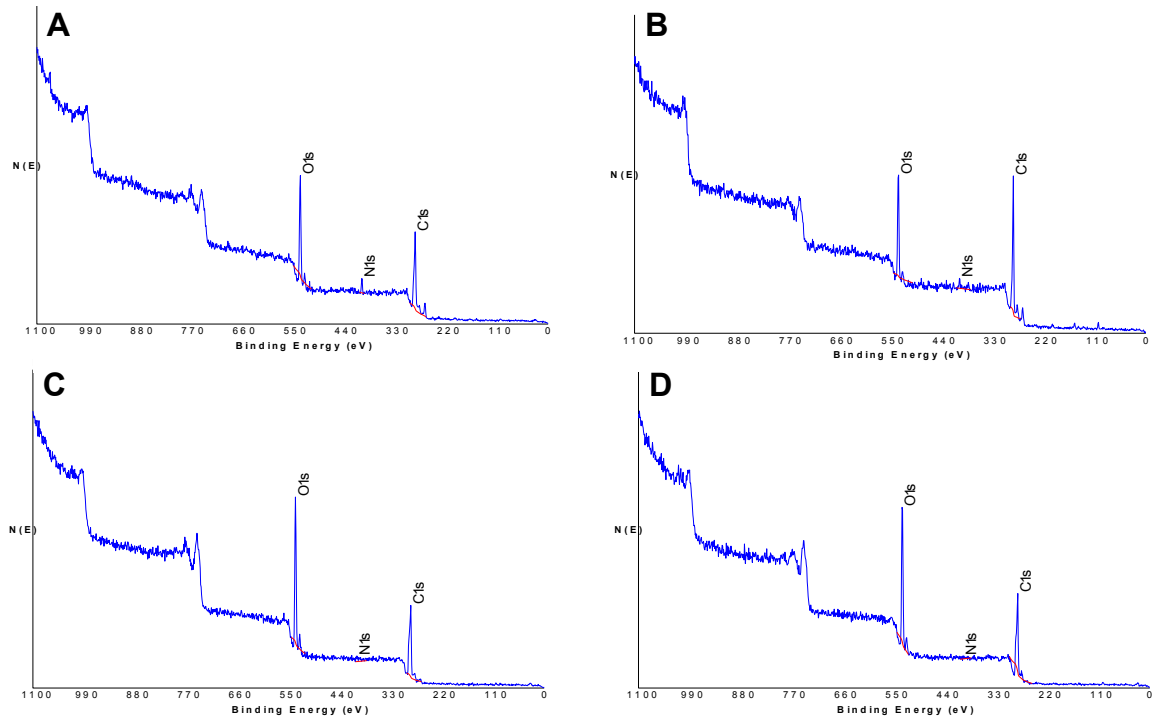

Figure S1. X-ray photoelectron spectrometry (XPS) full spectrum of (A) PLGA fibers with covalent coupling laminin, (B) PLGA yarns with covalent coupling laminin, (C) PLGA fibers with physical adsorbed laminin and (D) PLGA yarns with physical adsorbed laminin.