










Supplementary Material for

**Polylactic acid/polyaniline nanofibers subjected to pre- and post-electrospinning plasma treatments for refined scaffold-based nerve tissue engineering applications**

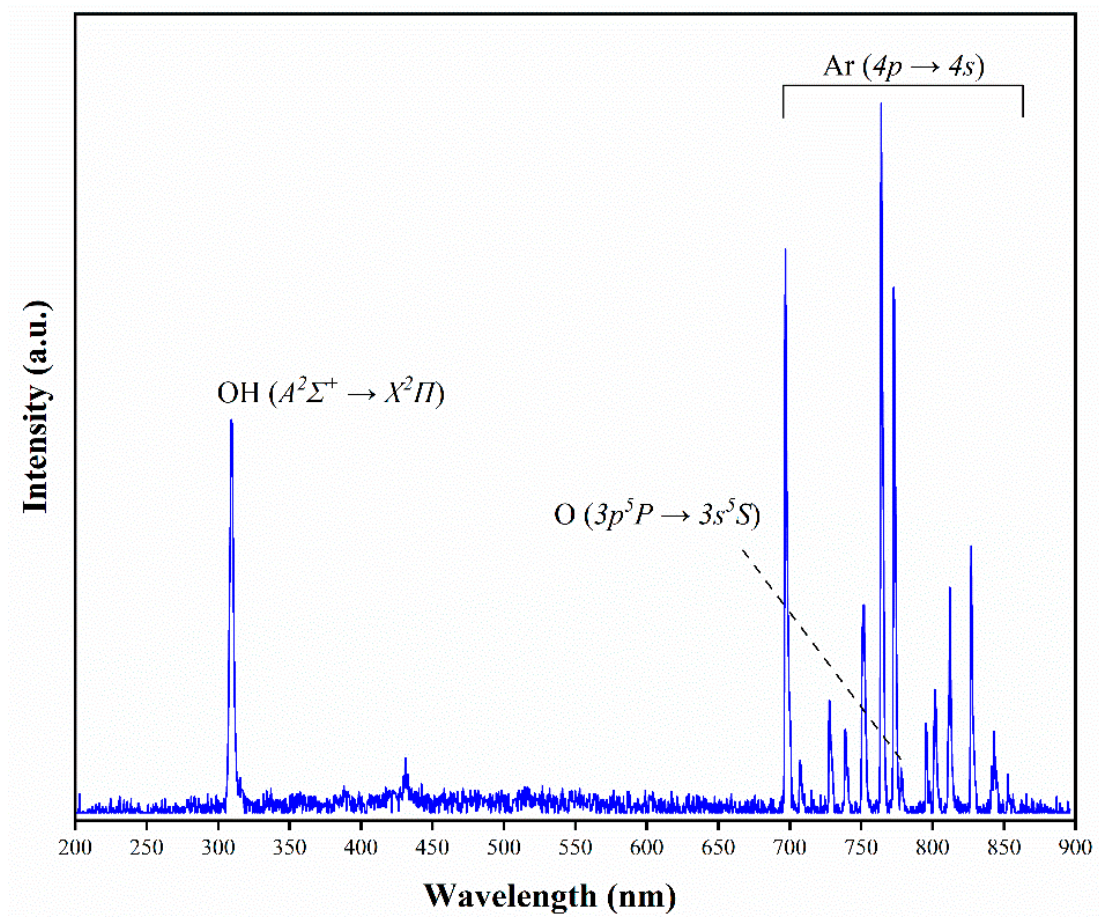
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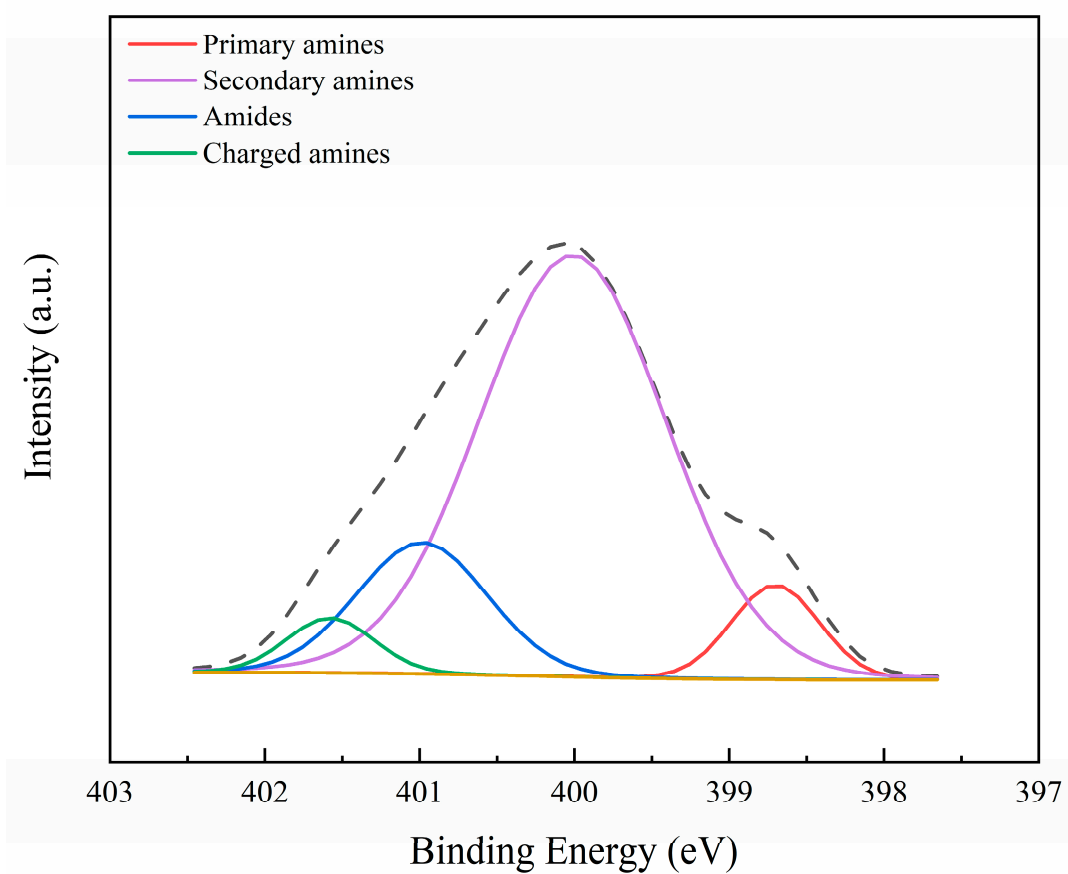
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	PLA	PLA/PAni	PLA/PAni:CSA
Untreated	144.8° 	138.2° 	139.4° 
APPJ	130.5° 	129.5° 	128.2° 
APPJ/DBD <sub>15s</sub>	25.2° 	22.9° 	20.5° 

**Figure S1** Representative WCA images of untreated, APPJ-treated and APPJ/DBD-treated (DBD treatment time: 15 s) PLA, PLA/PAni, and PLA/PAni:CSA scaffolds.



**Figure S2** Optical emission spectrum of the argon plasma jet (APPJ) in CHL:DMF (8:2 v/v).

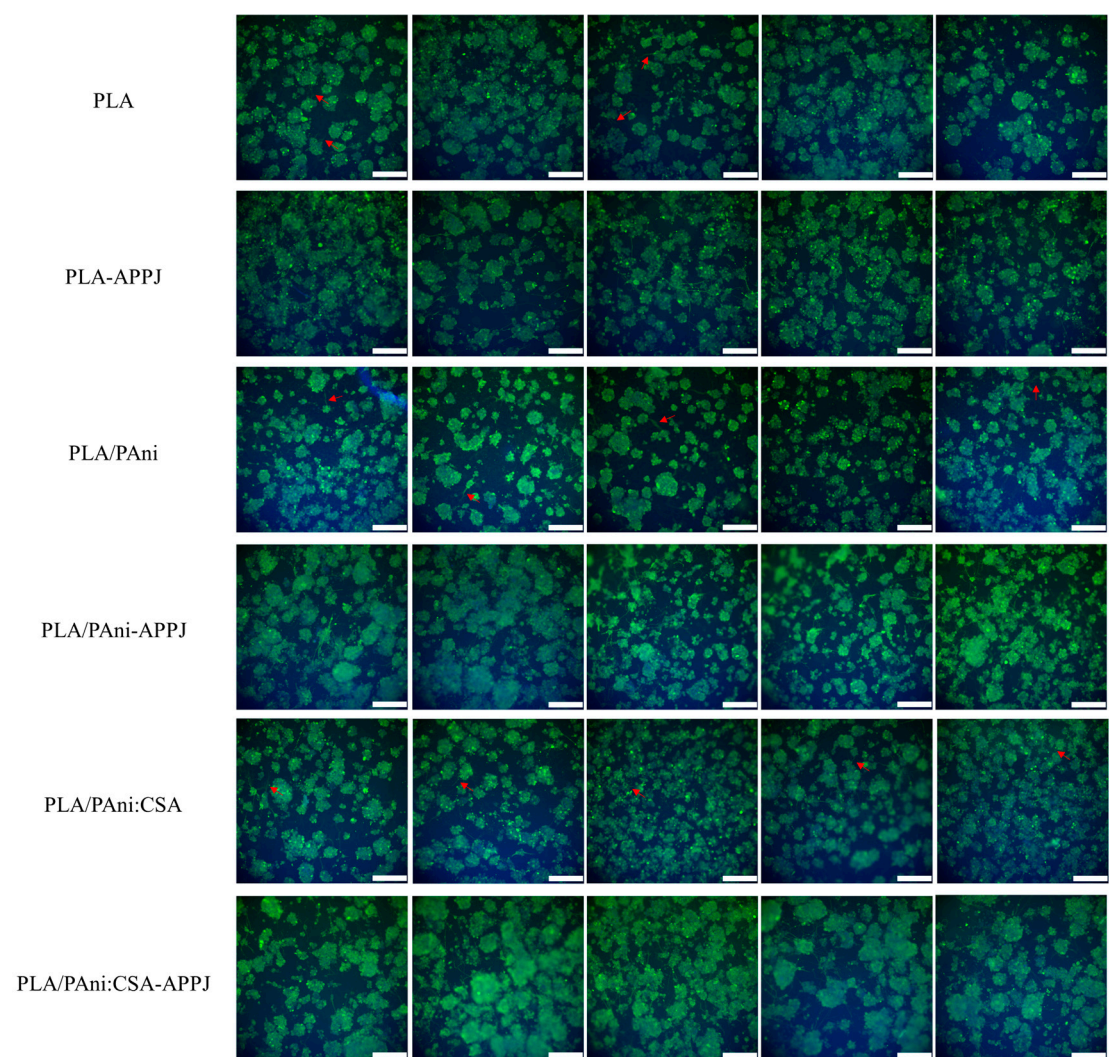


**Figure S3** Example of an N1s curve fitting of APPJ/DBD-treated PLA.

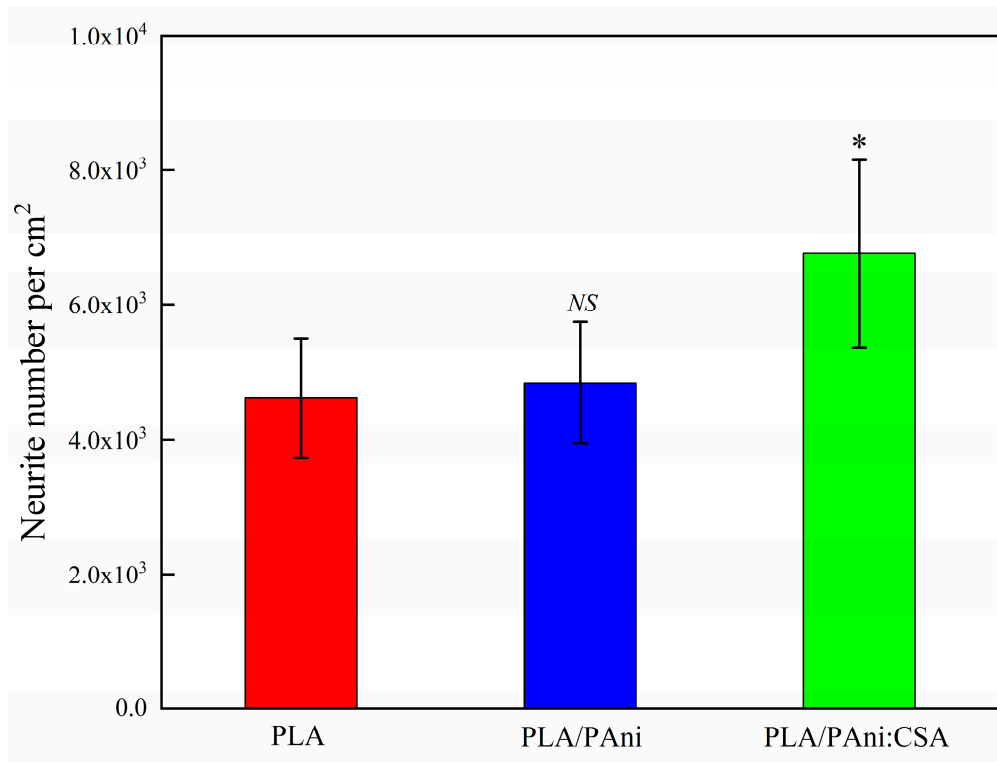
**Table S1**

Relative concentrations (%) of nitrogen-containing functional groups of APPJ/DBD-treated PLA nanofibers.

Peak	primary amines (398.7 eV)	secondary amines (400.0 eV)	amides (400.9 eV)	charged amines (401.6 eV)
Concentration	7.4 ± 6.0	68.3 ± 10.4	16.2 ± 9.7	8.0 ± 6.2



**Figure S4** Fluorescence microscopy images of PC-12 cells cultured on DBD-treated nanofibers for 10 days (Scale bar: 500  $\mu\text{m}$ ).



**Figure S5** Density of extended neurites from PC-12 cells cultured on PLA, PLA/PAni and PLA/PAni:CSA scaffolds,  $n \geq 5$ ,  $*p < 0.05$  compared to PLA scaffolds, *NS*: not significant compared to PLA scaffolds.