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Supplemental Information for the article

Plasma-Coated Polycaprolactone Nanofibers with Covalently Bonded Platelet-Rich Plasma Enhance Adhesion and Growth of Human Fibroblasts

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XPS survey scans of the samples

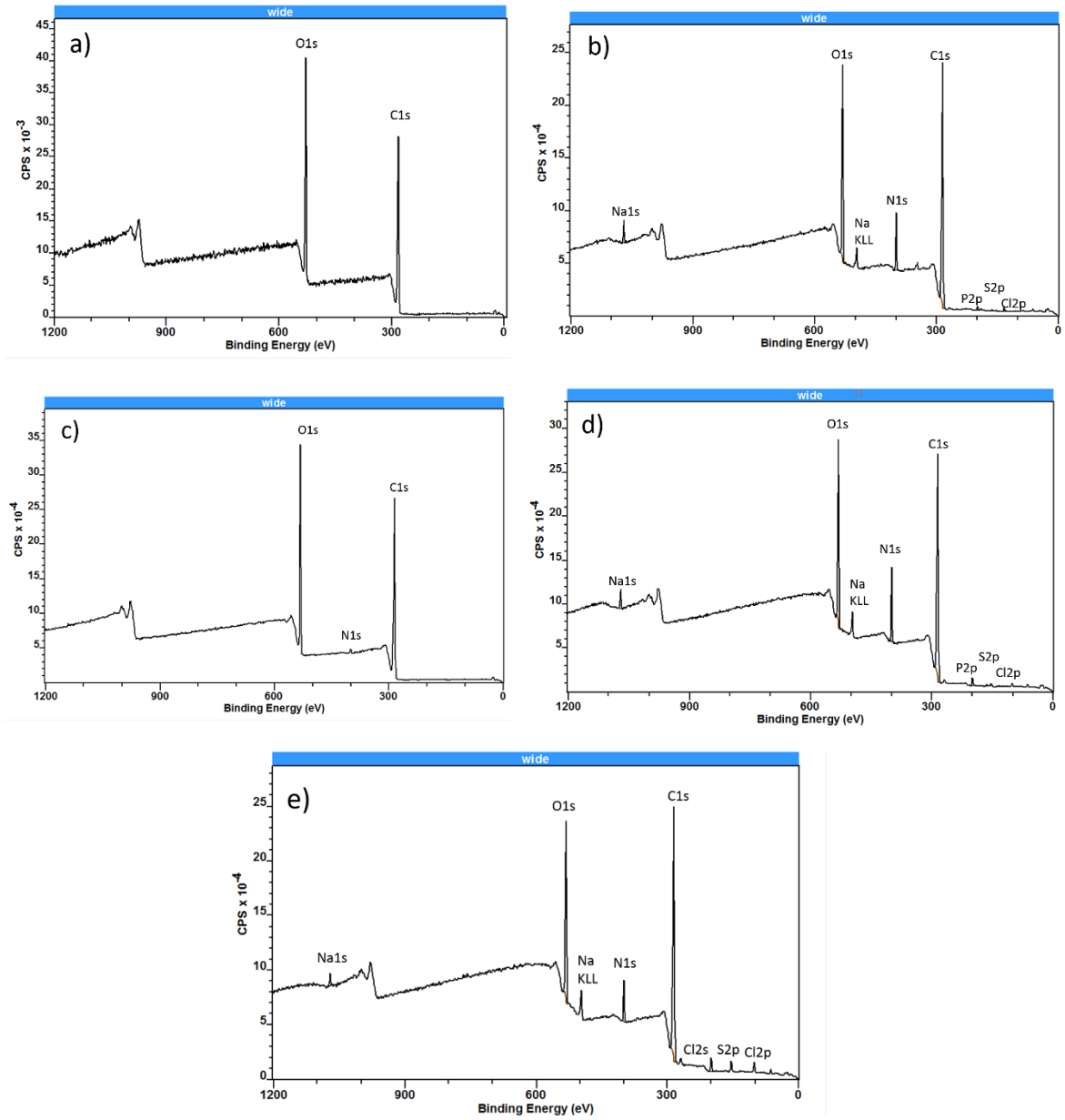

Figure S1. XPS survey spectra of PCL-ref (**a**), PCL-PRP (**b**), PCL-COOH (**c**), PCL-COOH-PRP1 (**d**) and PCL-COOH-PRP-2 (**e**).

The traces of sodium (<1 at.%), chrorine (<1 at.%) and phosphorus (<0.5 at.%) were also detected on survey scans (see Figure S1 in Supporting Information). These traces are related to the PBS washing of the samples and, therefore, were not takes into account in the Table 1.

XPS O1s curve fitting

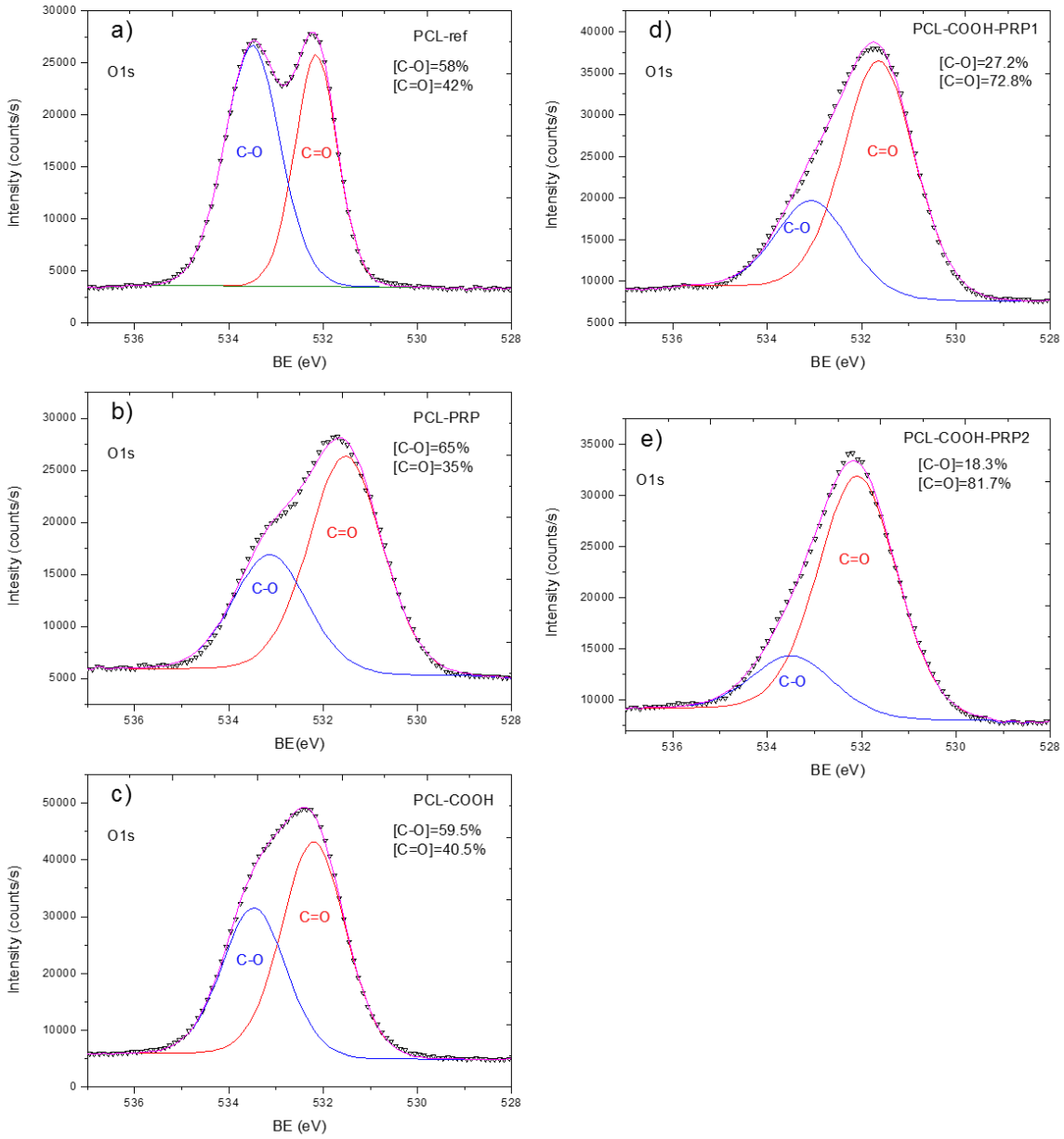

Figure S2. XPS O 1s curve fitting of PCL-ref (**a**), PCL-PRP (**b**), PCL-COOH (**c**), PCL-COOH-PRP1 (**d**) and PCL-COOH-PRP-2 (**e**).

The influence of dynamic disturbance of cell adhesion and spreading on cell proliferation. Representative images of cell adhesion and spreading stages on PCL-ref and PCL-COOH-PRP after 20 min and 2 h.

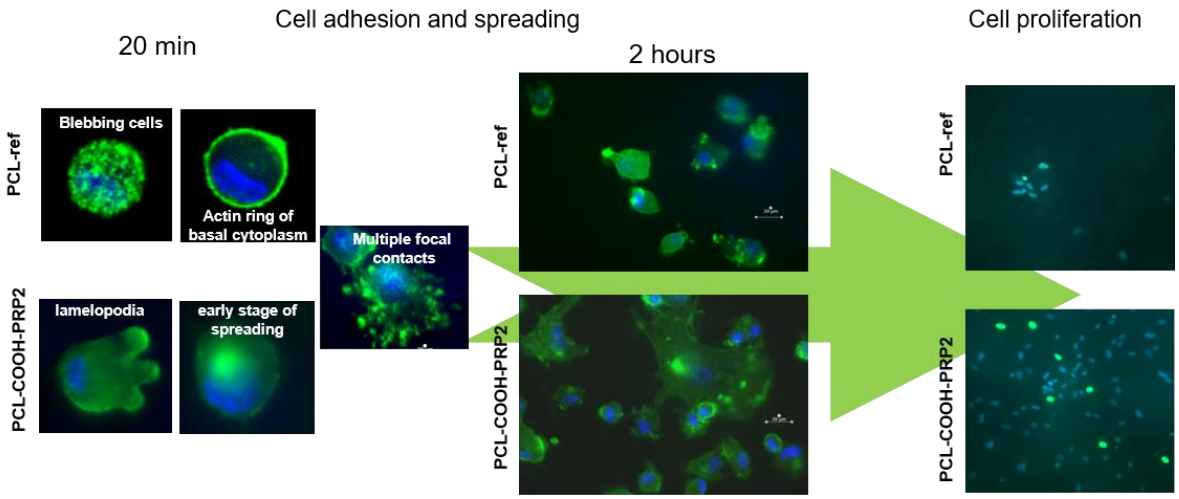

Figure S3. The influence of dynamic disturbance of cell adhesion and spreading on cell proliferation. Representative images of cell adhesion and spreading stage on PCL-ref and PCL-COOH-PRP after 20 min and 2 hours. The second stage of adhesion (2 hours) is significantly slower on PCL-ref. The cells have the same morphology as on the early stage of adhesion (20 min). The cells seeded on PCL-COOH-PRP have a well-spread polygonal shape with a pronounced cytoskeleton and lamellipodia. As a consequence, the level of cell proliferation and the number of cells are the highest on PCL-COOH-PRP. The cell nuclei were stained with Hoechst 33342 (blue) while the nuclei of proliferation cells were stained with Edu (green).