bioengineering

MDPI

Supplementary Materials

Impact of Uniaxial Static Strain on Myoblast Differentiation in Collagen-Coated PCL Microfilament Scaffolds: Role of Onset Time of Mechanical Stimulation

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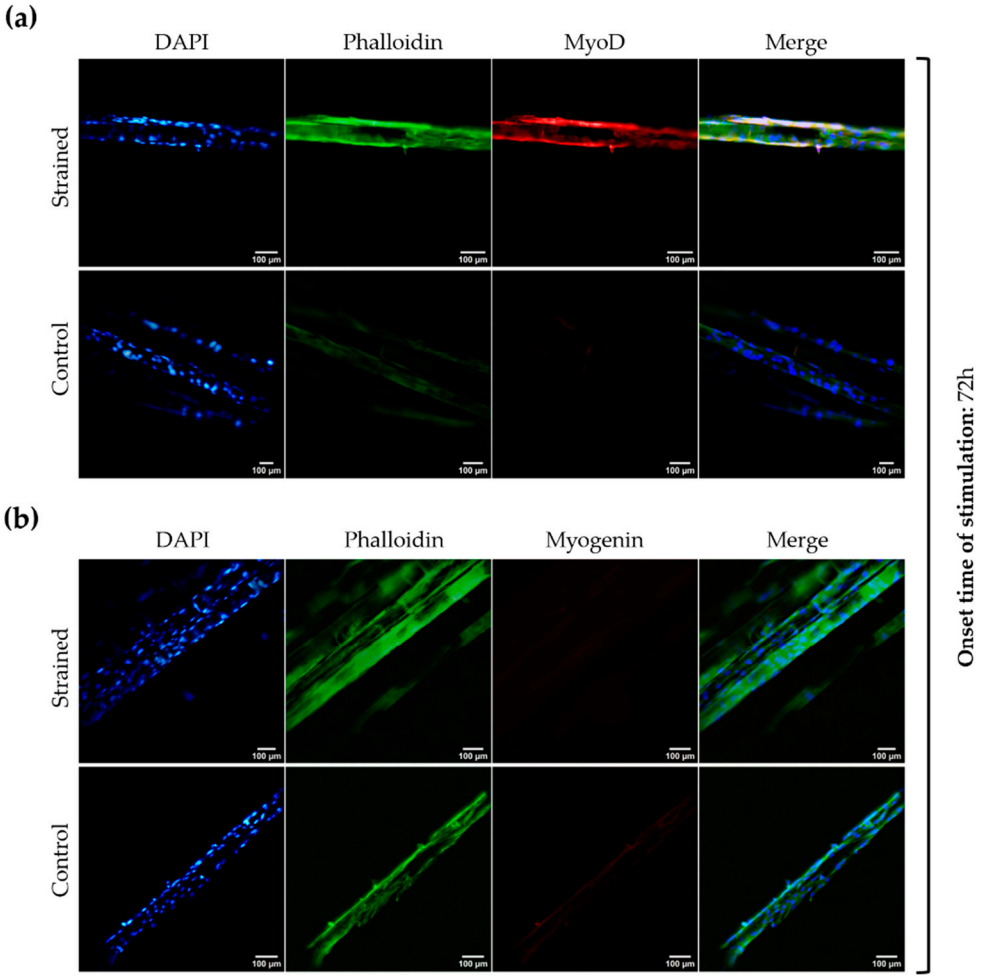

Figure S1. Immunofluorescent staining of cell-seeded scaffold after 24 h of mechanical stimulation. Onset time of mechanical stimulation 72 h. (a) Expression of MyoD myogenic marker. (b) Expression of Myogenin myogenic marker. DAPI (blue), Phalloidin (green) and MyoD/Myogenin (red). Merge shows the overlay of DAPI, Phalloidin and MyoD/Myogenin (blue, green and red) (20x).

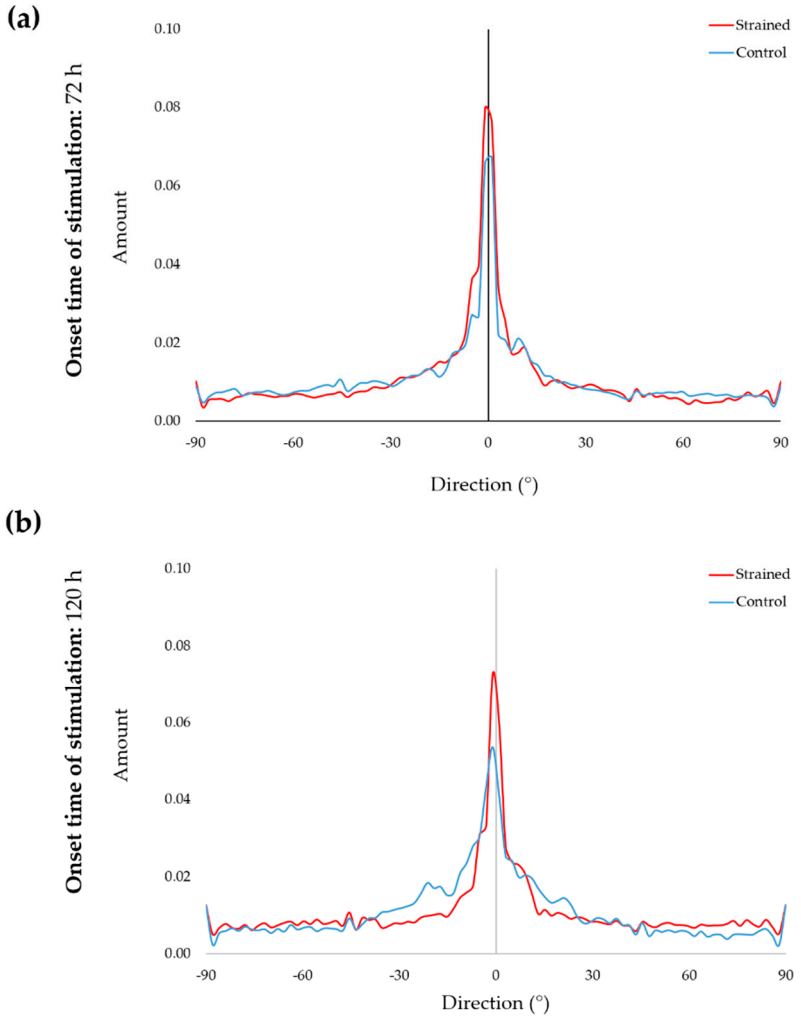

Figure S2. Directionality histograms of strained and control cell-seeded scaffolds. Onset time of mechanical stimulation 72 h and 120 h. *No significant differences were found between the data (p≥0.05).*

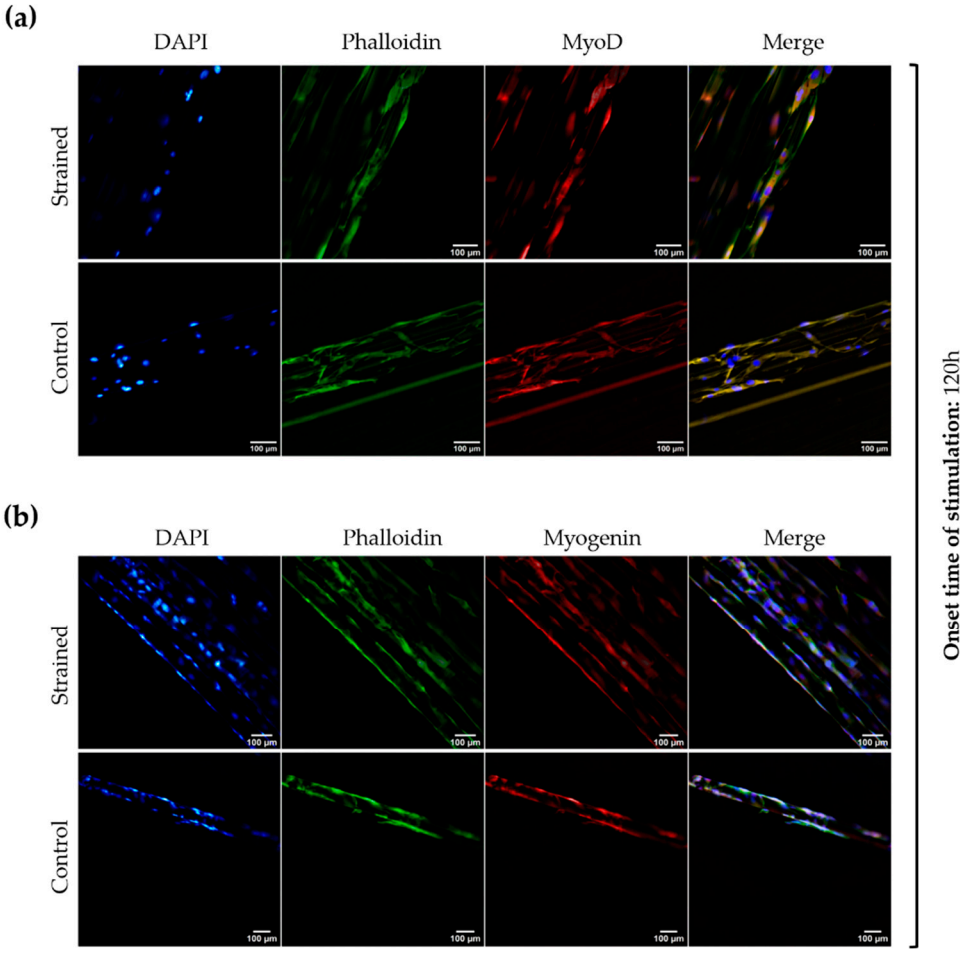

Figure S3. Immunofluorescent staining of cell-seeded scaffold after 24 h of mechanical stimulation. Onset time of mechanical stimulation 120 h. (a) Expression of MyoD myogenic marker. (b) Expression of Myogenin myogenic marker. DAPI (blue), Phalloidin (green) and MyoD/Myogenin (red). Merge shows the overlay of DAPI, Phalloidin and MyoD/Myogenin (blue, green and red) (20x).