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Effect of Nanofiber Orientation of Electrospun Nanofibrous Scaffolds on Cell Growth and Elastin Expression of Muscle Cells

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✓ Highlights ►

Aligned or random nanofibrous scaffolds were fabricated by electrospinning ► Cell growth and elastin expression on the scaffolds were examined ► Aligned nanofibrous scaffolds maintain cell shapes during the culture process ► Random nanofibrous scaffolds do not maintain cell shapes ► Elastin expression firstly increase and then decrease ► ►

Graphical abstract Aligned electrospun nanofibrous scaffolds could maintain cell shapes of human vascular smooth muscle cells during the culture process.

Abstract

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