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Three-dimensional artificial scaffold for the applications of neuroscience

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Electrospinning technique is being widely used recently because of its potential applications and bulk productivity. High surface area, light weight and ease of manufacturing three dimensional structures are the most attractive features for the biomedical field and applications such as skin regeneration, controlled drug release and artificial scaffolds. In particular, artificial blood vessels aim to replace an injured area of a given blood vessels for a temporary period, and this can be reached using nanofibers as they are structurally able to mimic the behavior of the

extracellular matrix. The composition of co-electro spun nanofibers blend is a new technique that helps in achieving different properties from different polymers such as strength, biocompatibility and rate of biodegradation. We tried co-electrospinning of Cellulose acetate, Poly L-lactic Acid and Polycaprolactone and successfully obtained good results in the shape of artificial blood vessels with smooth morphology.

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