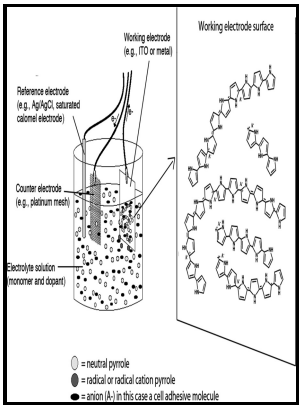
Patterned poly(chlorotrifluoroethylene) guides primary nerve cell adhesion and neurite outgrowth

National Library of Canada - Neurite Outgrowth on Nanofiber Scaffolds with Different Orders, Structures, and Surface Properties



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Introduction of carboxylic acid, aldehyde, and alcohol functional groups onto the surface of poly(chlorotrifluoroethylene)

A poly ethylene glycol modified with tyramine was grafted onto a chitosan backbone to enhance the solubility of the chitosan and to crosslink into three-dimensional networks. It covers 3D printing techniques including laser printing stereolithography, two-photon polymerization , extrusion printing 3D plotting, direct ink writing , inkjet printing, 3D bioprinting, 4D printing and 4D bioprinting.

Axonal guidance channels in peripheral nerve regeneration

PEG coating on the substrate might be beneficial to the neurite guidance by nanofibers in that PEG is one of the best-known non-fouling biomaterials with extremely low energy and non-adhesive surfaces. B Typical morphology of DRG cultured at the border between random and aligned PCL nanofibers bare. Two different kinds of cells C2C12 myoblasts and human umbilical vein endothelial cells HUVEC were encapsulated in the hydrogels by self-healing effect.

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Polymer 2003, 44 23 , 7157-7164.

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We found that the neurites extended radially outward from the DRG main body without specific directionality when cultured on a nonwoven mat of randomly oriented nanofibers.

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