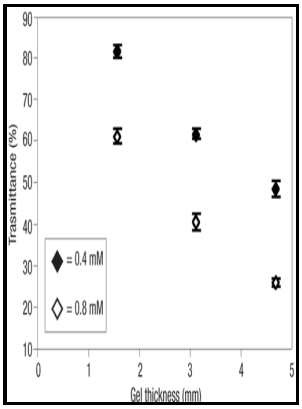
Patterned poly(chlorotrifluoroethylene) guides primary nerve cell adhesion and neurite outgrowth

National Library of Canada - Patterned poly(chlorotrifluoroethylene) guides primary nerve cell adhesion and neurite outgrowth, Journal of Biomedical Materials Research



Description: -
-Patterned poly(chlorotrifluoroethylene) guides primary nerve cell adhesion and neurite outgrowth
-
Canadian theses = -- Thèses canadiennesPatterned poly(chlorotrifluoroethylene) guides primary nerve cell adhesion and neurite outgrowth
Notes: Thesis (M.Sc.) -- University of Toronto, 1999.
This edition was published in 1999

Filesize: 38.79 MB

Tags: #A #photolabile #hydrogel #for #guided #three

Synthesis of cell

In this case, no sharp turn was observed for the neurites. Ex vivo models have evolved from traditional 2D cell culture models to 3D tissue-engineered scaffold systems, bioreactors, and recently organoid test beds.

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

Low-Temperature Metallization of Poly tetrafluoroethylene and Poly chlorotrifluoroethylene by Chemical Vapor Deposition. It is well-known that contact guidance of neurites can be exerted by topographic features. Chemistry of Materials 1999, 11 8 , 1980-1985.

A photolabile hydrogel for guided three

These results clearly demonstrate that aligned nanofibers could promote DRG adhesion and enhance the neurite guidance and extension as compared to random fibers.

Neurite Outgrowth on Nanofiber Scaffolds with Different Orders, Structures, and Surface Properties

These models should provide simple relationships of myelination to microenvironmental biophysical and biochemical properties to inform improved therapeutic approaches. The greatest neurite outgrowth was observed on poly Dex-MA -co-AEMA hydrogels modified with CPDG YIGSR and CQAAS IKVAV. A spinal cord surrogate with nanoscale porosity for in vitro simulations of restorative neurosurgical techniques.

Synthesis of cell

Materials functionalized with thiolated YIGSR and IKVAV peptides support increased neurite outgrowth Levesque and Shoichet, 2006. In this review, we offer a background on the improvement of distinctive tissue adhesives focusing on the chemistry of some of these products that have

been a commercial success from the clinical application perspective. Here, we compare the mechanical properties and the degradation behavior of unmodified and modified alginate hydrogels in which cell adhesive functionality is conferred either by blending or covalently cross-linking with gelatin.

Patterned poly(chlorotrifluoroethylene) guides primary nerve cell adhesion and neurite outgrowth, Journal of Biomedical Materials Research

Adsorption of Alginic Acid and Chondroitin Sulfate-A to Amine Functionality Introduced on Polychlorotrifluoroethylene and Glass Surfaces. This bi-axial pattern clearly demonstrates that neurite outgrowth can be influenced by nanofibers in different layers of a scaffold, rather than the topmost layer only.

Related Books

- Oeuvres de Racine.
- Iraq war 2003
- 75th anniversary exhibition
- Nonlinear controllability via the initial state - with application to the spread of rabies
- Vida nueva