



2006 FGM MULTISCALE & FUNCTIONALLY GRADED MATERIALS CONFERENCE

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ABSTRACT SUBMISSION CONFIRMATION

Your information was submitted as follows:

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Paper submitted for: General

FGM Serial Number: 0

Proposed Paper Title: Fibrinogen Nanofiber Structure

Abstract: Introduction: Electrospinning has been recognized technique for the fabrication of polymer nanofibers. It uses control the deposition of polymer fibers onto a target substr electrostatic processing strategy can be used to fabricate fiber composed of fiber diameter mostly between 100 nm and 3 μ describe electrospinning of fibrinogen nanofibers in an atten biomimicking tissue in vitro for use as a tissue scaffold. Mat We have used lyophilized human fibrinogen of the product T AG, Austria) to demonstrate fibrinogen electrospinning. Fibr 1,1,1,3,3,3-hexafluoro-2-propanol and sodium chloride solu eletrospun under various conditions. Electrospun fibers o processed for scanning electron microscopy (SEM) evaluatic native gelelectrophoresis. Results and Discussion: The SEM that formed fibers were flat and had large diameter distribu 1000 μ m resulting in approximate fiber diameter of 550 μ m. conditions bead formation occurred. The efficacy of this pro final fiber product, are affected by many factors, including, solution polymer concentration, viscosity of solution, voltage and ground electrode, the distance between the Taylor cone electrode, and environmental conditions such as humidity a Nano fiber similarity in size to native extracellular matrix co dimensional structure allows cells to attach to several fibers geometry. In summary, the electrospinning process is a sim technique for the fabrication of 3D structures composed of f

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