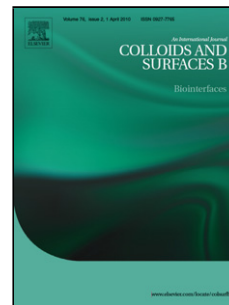


Accepted Manuscript

Title: Fabrication and Characterization of TGF- β 1-loaded Electrospun Poly (lactic-co-glycolic acid) Core-sheath Sutures

Authors: Ziqi Gu, Haiyue Yin, Juan Wang, Linlin Ma, Yosry Morsi, Xiumei Mo



PII: S0927-7765(17)30724-5
DOI: <https://doi.org/10.1016/j.colsurfb.2017.10.066>
Reference: COLSUB 8947

To appear in: *Colloids and Surfaces B: Biointerfaces*

Received date: 25-6-2017
Revised date: 25-10-2017
Accepted date: 26-10-2017

Please cite this article as: Ziqi Gu, Haiyue Yin, Juan Wang, Linlin Ma, Yosry Morsi, Xiumei Mo, Fabrication and Characterization of TGF- β 1-loaded Electrospun Poly (lactic-co-glycolic acid) Core-sheath Sutures, *Colloids and Surfaces B: Biointerfaces* <https://doi.org/10.1016/j.colsurfb.2017.10.066>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Fabrication and Characterization of TGF- β 1-loaded Electrospun Poly (lactic-co-glycolic acid) Core-sheath Sutures

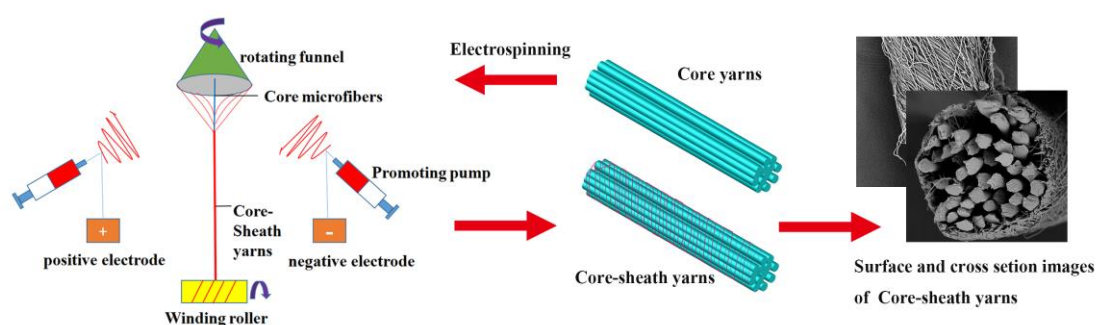
Ziqi Gu¹, Haiyue Yin¹, Juan Wang¹, Linlin Ma¹, Yosry Morsi², Xiumei Mo^{1,3*}

1.State Key Lab for Modification of Chemical Fibers and Polymer Materials, College of Chemistry, Chemical Engineering and Biotechnology, Donghua University, Shanghai 201620, China. *E-mail: xmm@dhu.edu.cn

2.Faculty of Engineering and Industrial Sciences, Swinburne University of Technology, Hawthorn, Vic 3122, Australia

3. Shandong International Biotechnology Park Development Co., Ltd., Yantai 264003, People's Republic of China

Graphical abstract



Highlights

1. A novel species of suture with core-sheath structure was fabricated.
2. TGF- β 1 was loaded in PLGA core-sheath yarns successfully.
3. TGF- β 1 loaded PLGA core-sheath yarns has high mechanical properties and high biocompatibility.

Download English Version:

<https://daneshyari.com/en/article/6980768>

Download Persian Version:

<https://daneshyari.com/article/6980768>

[Daneshyari.com](https://daneshyari.com)