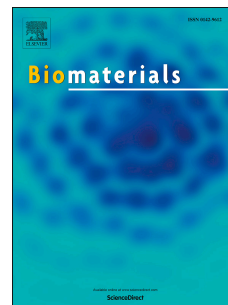


# Accepted Manuscript

Electroactive Biodegradable Polyurethane Significantly Enhanced Schwann Cells Myelin Gene Expression and Neurotrophin Secretion for Peripheral Nerve Tissue Engineering

Yaobin Wu, Ling Wang, Baolin Guo, Yongpin Shao, Peter X. Ma



PII: S0142-9612(16)00115-0

DOI: [10.1016/j.biomaterials.2016.02.010](https://doi.org/10.1016/j.biomaterials.2016.02.010)

Reference: JBMT 17357

To appear in: *Biomaterials*

Received Date: 6 November 2015

Revised Date: 1 February 2016

Accepted Date: 4 February 2016

Please cite this article as: Wu Y, Wang L, Guo B, Shao Y, Ma PX, Electroactive Biodegradable Polyurethane Significantly Enhanced Schwann Cells Myelin Gene Expression and Neurotrophin Secretion for Peripheral Nerve Tissue Engineering, *Biomaterials* (2016), doi: 10.1016/j.biomaterials.2016.02.010.

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.

**Electroactive Biodegradable Polyurethane Significantly Enhanced Schwann  
Cells Myelin Gene Expression and Neurotrophin Secretion for Peripheral Nerve  
Tissue Engineering**

Yaobin Wu <sup>a†</sup>, Ling Wang <sup>a†</sup>, Baolin Guo <sup>a,\*</sup>, Yongpin Shao <sup>a</sup>, Peter X Ma <sup>b,c,d,e,\*</sup>

<sup>a</sup> *Frontier Institute of Science and Technology, Xi'an Jiaotong University, Xi'an, 710049, China*

<sup>b</sup> *Department of Biomedical Engineering, University of Michigan, Ann Arbor, MI 48109, USA*

<sup>c</sup> *Department of Biologic and Materials Sciences, University of Michigan, 1011, North University Ave., Room 2209, Ann Arbor, MI 48109, USA*

<sup>d</sup> *Macromolecular Science and Engineering Center, University of Michigan, Ann Arbor, MI 48109, USA*

<sup>e</sup> *Department of Materials Science and Engineering, University of Michigan, Ann Arbor, MI 48109, USA*

\* To whom correspondence should be addressed. Tel.:+86-29-83395361. Fax: +86-29-83395131. E-mail: baoling@mail.xjtu.edu.cn, mapx@umich.edu.

† These authors contributed equally to this work.

Download English Version:

<https://daneshyari.com/en/article/6485037>

Download Persian Version:

<https://daneshyari.com/article/6485037>

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