

# Accepted Manuscript

Title: Immunomodulation of Mesenchymal Stem Cells in discogenic pain

Author: Laura Miguélez-Rivera, Saúl Pérez-Castrillo, Maria Luisa González-Fernández, Julio Gabriel Prieto-Fernández, María Elisa López-González, José García-Cosamalón, Vega Villar-Suárez V

PII: S1529-9430(17)30984-1  
DOI: <http://dx.doi.org/doi: 10.1016/j.spinee.2017.09.002>  
Reference: SPINEE 57496

To appear in: *The Spine Journal*

Received date: 13-3-2017  
Revised date: 9-8-2017  
Accepted date: 11-9-2017

Please cite this article as: Laura Miguélez-Rivera, Saúl Pérez-Castrillo, Maria Luisa González-Fernández, Julio Gabriel Prieto-Fernández, María Elisa López-González, José García-Cosamalón, Vega Villar-Suárez V, Immunomodulation of Mesenchymal Stem Cells in discogenic pain, *The Spine Journal* (2017), <http://dx.doi.org/doi: 10.1016/j.spinee.2017.09.002>.

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.



1     **Anti-inflammatory effects of mesenchymal stem cells in a co-culture**  
2                                     **model of disc degeneration**

3     Laura Miguélez-Rivera<sup>1&</sup>, Saúl Pérez-Castrillo<sup>1&</sup>, Maria Luisa González-Fernández<sup>1</sup>,  
4             Julio Gabriel Prieto-Fernández<sup>2</sup>, María Elisa López-González<sup>1</sup>; José García-  
5                                     Cosamalón<sup>2</sup>, Vega Villar-Suárez, V<sup>1,2\*</sup>

6  
7     <sup>1</sup> Department of Anatomy, Faculty of Veterinary Sciences, Campus de Vegazana, Uni-  
8     versity of León, 24071 Spain.

9     <sup>2</sup> Institute of Biomedicine (IBIOMED), Faculty of Veterinary Sciences, Campus de  
10     Vegazana, University of León 24071, Spain.

11     <sup>&</sup>These authors contributed equally to this work.

12     \*Corresponding author:

13     E-mail: [vega.villar@unileon.es](mailto:vega.villar@unileon.es)

14     Institute of Biomedicine, Faculty of Veterinary Sciences, University of León. Campus  
15     de Vegazana s/n. 24071-LEÓN. Spain.

16  
17     **Acknowledgements and Role of the Funding Source**

18             The authors are grateful to Elías Rodríguez-Olivera for the design of primers.

19             This study was financially supported by the Fundación Leonesa Proneurociencias.

20     No separate funding was used specifically for this study. The study sponsor did not have

Download English Version:

<https://daneshyari.com/en/article/8804582>

Download Persian Version:

<https://daneshyari.com/article/8804582>

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