

Accepted Manuscript

Fibronectin promotes elastin deposition, elasticity and mechanical strength in cellularised collagen-based scaffolds

Daniele Pezzoli, Joseph Di Paolo, Heena Kumra, Giulia Fois, Gabriele Candiani, Dieter P. Reinhardt, Diego Mantovani



PII: S0142-9612(18)30490-3

DOI: [10.1016/j.biomaterials.2018.07.013](https://doi.org/10.1016/j.biomaterials.2018.07.013)

Reference: JBMT 18756

To appear in: *Biomaterials*

Received Date: 16 January 2018

Revised Date: 6 July 2018

Accepted Date: 9 July 2018

Please cite this article as: Pezzoli D, Di Paolo J, Kumra H, Fois G, Candiani G, Reinhardt DP, Mantovani D, Fibronectin promotes elastin deposition, elasticity and mechanical strength in cellularised collagen-based scaffolds, *Biomaterials* (2018), doi: 10.1016/j.biomaterials.2018.07.013.

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.

Fibronectin promotes elastin deposition, elasticity and mechanical strength in cellularised collagen-based scaffolds

Daniele Pezzoli^a, Joseph Di Paolo^b, Heena Kumra^b, Giulia Fois^{a,c}, Gabriele Candiani^c, Dieter P. Reinhardt^{b,*}, Diego Mantovani^{a,*}

^aLaboratory for Biomaterials and Bioengineering, Canada Research Chair I in Biomaterials and Bioengineering for the Innovation in Surgery, Department of Min-Met-Materials Engineering, Research Center of CHU de Quebec, Division of Regenerative Medicine, Laval University, Quebec City, QC G1V 0A6, Canada

^bCanada Research Chair I in Cell-Matrix Biology, Faculty of Medicine, Department of Anatomy and Cell Biology, and Faculty of Dentistry McGill University, Montreal, QC H3A 0C7, Canada

^cDepartment of Chemistry, Materials and Chemical Engineering "Giulio Natta", Politecnico di Milano, Milan, 20131, Italy

*co-last and co-corresponding authors

***Corresponding authors:**

Diego Mantovani, **E-mail address:** diego.mantovani@gmn.ulaval.ca; **Fax:** 1-418-656-5343

Dieter P. Reinhardt, **E-mail address:** dieter.reinhardt@mcgill.ca; **Fax:** 1-514-398-5375

Declarations of interest: none

Download English Version:

<https://daneshyari.com/en/article/6484332>

Download Persian Version:

<https://daneshyari.com/article/6484332>

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