

## Accepted Manuscript

Title: Cobalt-containing bioactive glasses reduce human mesenchymal stem cell chondrogenic differentiation despite HIF-1 $\alpha$  stabilisation

Authors: E. Littmann, H. Autefage, A.K. Solanki, C. Kallepitis, J.R. Jones, M. Alini, M. Peroglio, M.M. Stevens



PII: S0955-2219(17)30524-1  
DOI: <http://dx.doi.org/doi:10.1016/j.jeurceramsoc.2017.08.001>  
Reference: JECS 11396

To appear in: *Journal of the European Ceramic Society*

Received date: 28-2-2017  
Accepted date: 1-8-2017

Please cite this article as: Littmann E, Autefage H, Solanki AK, Kallepitis C, Jones JR, Alini M, Peroglio M, Stevens M.M. Cobalt-containing bioactive glasses reduce human mesenchymal stem cell chondrogenic differentiation despite HIF-1 $\alpha$  stabilisation. *Journal of The European Ceramic Society* <http://dx.doi.org/10.1016/j.jeurceramsoc.2017.08.001>

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.

**Cobalt-containing bioactive glasses reduce human mesenchymal stem cell chondrogenic differentiation despite HIF-1 $\alpha$  stabilisation**

**E Littmann<sup>a,b,c</sup>, H Autefage<sup>a,b,c,l\*</sup>, AK Solanki<sup>a,b,c</sup>, C Kallepitis<sup>a,b,c</sup>, JR Jones<sup>a</sup>, M Alini<sup>d</sup>, M Peroglio<sup>d</sup>, MM Stevens<sup>a,b,c\*</sup>**

**Authors:**

Dr. Elena Littmann<sup>a,b,c</sup>

<sup>a</sup>Department of Materials, Imperial College London, London SW7 2AZ, United Kingdom

<sup>b</sup>Department of Bioengineering, Imperial College London, London SW7 2AZ, United Kingdom

<sup>c</sup>Institute of Biomedical Engineering, Imperial College London, London SW7 2AZ, United Kingdom

[e.littmann@imperial.ac.uk](mailto:e.littmann@imperial.ac.uk)

Dr. H el ene Autefage<sup>a,b,c,l\*</sup>

<sup>a</sup>Department of Materials, Imperial College London, London SW7 2AZ, United Kingdom

<sup>b</sup>Department of Bioengineering, Imperial College London, London SW7 2AZ, United Kingdom

<sup>c</sup>Institute of Biomedical Engineering, Imperial College London, London SW7 2AZ, United Kingdom

[helene.autefage.work@gmail.com](mailto:helene.autefage.work@gmail.com)

Phone number: [+46 852487115](tel:+46852487115)

<sup>l</sup>Current address: Division of Biomaterials, Department of Medical Biochemistry and Biophysics, Karolinska Institutet, Scheeles v ag 2, 17177 Stockholm, Sweden

Dr. Anu Kishor Solanki<sup>a,b,c</sup>

<sup>a</sup>Department of Materials, Imperial College London, London SW7 2AZ, United Kingdom

<sup>b</sup>Department of Bioengineering, Imperial College London, London SW7 2AZ, United Kingdom

<sup>c</sup>Institute of Biomedical Engineering, Imperial College London, London SW7 2AZ, United Kingdom

Dr. Charalambos Kallepitis<sup>a,b,c</sup>

<sup>a</sup>Department of Materials, Imperial College London, London SW7 2AZ, United Kingdom

<sup>b</sup>Department of Bioengineering, Imperial College London, London SW7 2AZ, United Kingdom

<sup>c</sup>Institute of Biomedical Engineering, Imperial College London, London SW7 2AZ, United Kingdom

Prof. Julian Raymond Jones<sup>a</sup>

<sup>a</sup>Department of Materials, Imperial College London, London SW7 2AZ, United Kingdom

Prof. Mauro Alini<sup>d</sup>

<sup>d</sup>AO Research Institute Davos, Clavadelerstrasse 8, 7270, Davos, Switzerland

Dr. Marianna Peroglio<sup>d</sup>

<sup>d</sup>AO Research Institute Davos, Clavadelerstrasse 8, 7270, Davos, Switzerland

Download English Version:

<https://daneshyari.com/en/article/7898530>

Download Persian Version:

<https://daneshyari.com/article/7898530>

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