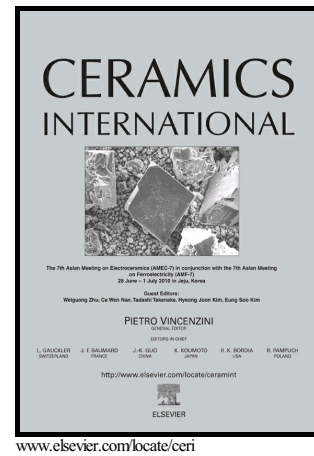


Author's Accepted Manuscript

The effects of laser patterning 10CeTZP-Al₂O₃ nanocomposite disc surfaces: osseous differentiation and cellular arrangement in vitro

Lidia Goyos-Ball, Catuxa Prado, Raquel Díaz, Elisa Fernández, Arnold Ismailov, Tero Kumpulainen, Erkki Levänen, Ramón Torrecillas, Adolfo Fernández



PII: S0272-8842(18)30474-7
DOI: <https://doi.org/10.1016/j.ceramint.2018.02.164>
Reference: CER117566

To appear in: *Ceramics International*

Received date: 17 January 2018
Revised date: 19 February 2018
Accepted date: 20 February 2018

Cite this article as: Lidia Goyos-Ball, Catuxa Prado, Raquel Díaz, Elisa Fernández, Arnold Ismailov, Tero Kumpulainen, Erkki Levänen, Ramón Torrecillas and Adolfo Fernández, The effects of laser patterning 10CeTZP-Al₂O₃ nanocomposite disc surfaces: osseous differentiation and cellular arrangement in vitro, *Ceramics International*, <https://doi.org/10.1016/j.ceramint.2018.02.164>

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 galley proof before it is published in its final citable 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.

**The effects of laser patterning 10CeTZP-Al₂O₃ nanocomposite disc surfaces:
osseous differentiation and cellular arrangement in vitro**

Lidia Goyos-Ball^{a, b*}, Catuxa Prado^a, Raquel Díaz^a, Elisa Fernández^a, Arnold Ismailov^c, Tero Kumpulainen^d, Erkki Levänen^c, Ramón Torrecillas^a and Adolfo Fernández^{a, b}.

* Corresponding author

E-mail addresses: l.goyos@cinn.es, l.goyos@nanoker.com (Lidia Goyos-Ball)

Telephone number: +34 985 733 644

Fax number: +34 984 086 810

- a. *Nanomaterials and Nanotechnology Research Centre (CINN), Consejo Superior de Investigaciones Científicas (CSIC), Universidad de Oviedo (UO), Principado de Asturias (PA), Avenida de la Vega, 4-6. 33940 El Entrego, Asturias, Spain*
- b. *Nanoker Research, Pol. Ind. Olloniego, Parcela 22A, Nave 5, 33660 Oviedo, Spain*
- c. *Department of Materials Science, Tampere University of Technology, Tampere, Finland*
- d. *Department of Mechanical Engineering and Industrial Systems, Tampere University of Technology, Tampere, Finland*

Download English Version:

<https://daneshyari.com/en/article/7887937>

Download Persian Version:

<https://daneshyari.com/article/7887937>

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