Author's Accepted Manuscript

Tribocorrosion behavior of biofunctional titanium oxide films produced by micro-arc oxidation: Synergism and mechanisms

Isabella da Silva Vieira Marques, Maria Fernanda Alfaro, Nilson Cristino da Cruz, Marcelo Ferraz Mesquita, Cortino Sukotjo, Mathew T. Mathew, Valentim Adelino Ricardo Barão



PII: \$1751-6161(15)00504-4 DOI: http://dx.doi.org/10.1016/j.jmbbm.2015.12.030 Reference: JMBBM1745

To appear in: Journal of the Mechanical Behavior of Biomedical Materials

Received date:26 September 2015Revised date:10 December 2015Accepted date:21 December 2015

Cite this article as: Isabella da Silva Vieira Marques, Maria Fernanda Alfaro Nilson Cristino da Cruz, Marcelo Ferraz Mesquita, Cortino Sukotjo, Mathew T Mathew and Valentim Adelino Ricardo Barão, Tribocorrosion behavior of biofunctional titanium oxide films produced by micro-arc oxidation: Synergisn and mechanisms, *Journal of the Mechanical Behavior of Biomedical Materials* http://dx.doi.org/10.1016/j.jmbbm.2015.12.030

This is a PDF file of an unedited manuscript that has been accepted fo publication. As a service to our customers we are providing this early version o 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

ACCEPTED MANUSCRIPT

Tribocorrosion behavior of biofunctional titanium oxide films produced by micro-

arc oxidation: Synergism and mechanisms

Isabella da Silva Vieira Marques,^{a,b,c} Maria Fernanda Alfaro,^b Nilson Cristino da Cruz,^d Marcelo Ferraz Mesquita,^a Cortino Sukotjo,^{b,e} Mathew T. Mathew,^{b,f}. Valentim Adelino Ricardo Barão,^{a,b,c}

^a Department of Prosthodontics and Periodontology, Piracicaba Dental School, University of Campinas (UNICAMP), Av Limeira, 901, Piracicaba, São Paulo, Brazil, 13414-903.

^b IBTN - Institute of Biomaterials, Tribocorrosion and Nanomedicine, USA.

^c IBTN/Br - Institute of Biomaterials, Tribocorrosion and Nanomedicine – Brazilian Branch, Brazil.

^d Laboratory of Technological Plasmas, Engineering College, Univ Estadual Paulista (UNESP), Av Três de Março, 511, Sorocaba, São Paulo, Brazil, 18087-180.

^e Department of Restorative Dentistry, University of Illinois at Chicago, College of Dentistry, 801 S Paulina, Chicago, Illinois, USA, 60612.

^fDepartment of Orthopedic Surgery, Rush University Medical Center, 1611 W Harrison, Chicago, Illinois, USA, 60612.

*Corresponding author:

Av. Limeira, 901, Piracicaba, SP, Brazil 13414-903, Tel.: + 55-19-2106 5719; Fax: +55-19-2106 5218;

e-mail address: vbarao@unicamp.br

Download English Version:

https://daneshyari.com/en/article/7207946

Download Persian Version:

https://daneshyari.com/article/7207946

Daneshyari.com