Accepted Manuscript

Short communication: repeatability of strain magnitude and strain rate measurements in the periodontal ligament using fibre bragg gratings: An ex vivo study in a swine model

Dan L. Romanyk, Raymond Guan, Paul W. Major, Christopher R. Dennison

PII: S0021-9290(17)30082-9

DOI: http://dx.doi.org/10.1016/j.jbiomech.2017.01.047

Reference: BM 8119

To appear in: Journal of Biomechanics

Accepted Date: 28 January 2017



Please cite this article as: D.L. Romanyk, R. Guan, P.W. Major, C.R. Dennison, Short communication: repeatability of strain magnitude and strain rate measurements in the periodontal ligament using fibre bragg gratings: An ex vivo study in a swine model, *Journal of Biomechanics* (2017), doi: http://dx.doi.org/10.1016/j.jbiomech.2017.01.047

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.

CCEPTED MANUSCRIPT

SHORT COMMUNICATION: REPEATABILITY OF STRAIN MAGNITUDE AND STRAIN RATE MEASUREMENTS IN THE PERIODONTAL LIGAMENT USING FIBRE **BRAGG GRATINGS:** AN EX VIVO STUDY IN A SWINE MODEL

Dan L. Romanyk^a*; Raymond Guan^{a,b}; Paul W. Major^a; and Christopher R. Dennison^b

^aFaculty of Medicine and Dentistry, School of Dentistry, University of Alberta

^bBiomedical Instrumentation Lab, Department of Mechanical Engineering, University of Alberta

Article length: 3,480 (Including Introduction to Conclusion)

Keywords: periodontal ligament; dental biomechanics; fibre Bragg grating; strain measurement

*Corresponding author: Dan L Romanyk

Research Faculty Service Officer

Faculty of Medicine and Dentistry, School of Dentistry

7-020 Katz Group Centre University of Alberta Edmonton, AB T6G 2X8

Phone: 780-974-7486

Email: dromanyk@ualberta.ca

Download English Version:

https://daneshyari.com/en/article/5032178

Download Persian Version:

https://daneshyari.com/article/5032178

<u>Daneshyari.com</u>