

Accepted Manuscript

Title: In Vivo Measurements and Numerical Analysis of the Biomechanical Characteristics of the Human Periodontal Ligament

Author: L. Keilig M. Drolshagen K.L. Tran I. Hasan S. Reimann J. Deschner K.T. Brinkmann R. Krause M. Favino C. Bourauel



PII: S0940-9602(15)00112-0
DOI: <http://dx.doi.org/doi:10.1016/j.aanat.2015.08.004>
Reference: AANAT 50979

To appear in:

Received date: 31-1-2014
Revised date: 31-7-2015
Accepted date: 24-8-2015

Please cite this article as: Keilig, L., Drolshagen, M., Tran, K.L., Hasan, I., Reimann, S., Deschner, J., Brinkmann, K.T., Krause, R., Favino, M., Bourauel, C., In Vivo Measurements and Numerical Analysis of the Biomechanical Characteristics of the Human Periodontal Ligament, *Annals of Anatomy* (2015), <http://dx.doi.org/10.1016/j.aanat.2015.08.004>

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.

1 **In Vivo Measurements and Numerical Analysis of the**
2 **Biomechanical Characteristics of the Human Periodontal Ligament**

3 L. Keilig¹, M. Drolshagen², K.L. Tran³, I. Hasan¹, S. Reimann¹, J. Deschner⁴,
4 K.T. Brinkmann⁵, R. Krause⁶, M. Favino⁷, C. Bourauel⁸

5 ¹Senior Scientist, Endowed Chair of Oral Technology and Department of
6 Prosthetic Dentistry, Preclinical Education and Materials Science, Rheinische
7 Friedrich-Wilhelms-University, Welschnonnenstr. 17, 53111 Bonn, Germany

8 ²Junior Scientist, Endowed Chair of Oral Technology, Rheinische Friedrich-
9 Wilhelms-University, Welschnonnenstr. 17, 53111 Bonn, Germany

10 ³PhD student, Endowed Chair of Oral Technology, Rheinische Friedrich-
11 Wilhelms-University, Welschnonnenstr. 17, 53111 Bonn, Germany

12 ⁴Professor, Experimental Dento-Maxillo-Facial Medicine, Rheinische
13 Friedrich-Wilhelms-University, Welschnonnenstr. 17, 53111 Bonn, Germany

14 ⁵Professor, Helmholtz Institute for Radiation and Nuclear Physics, Rheinische
15 Friedrich-Wilhelms-University, Nussallee. 14-16, 53115 Bonn, Germany

16 ⁶Professor and Head, Institute of Computational Science, University of
17 Lugano, Via Giuseppe Buffi 13, 6906 Lugano, Switzerland

18 ⁷PhD student, Institute of Computational Science, University of Lugano, Via
19 Giuseppe Buffi 13, 6906 Lugano, Switzerland

20 ⁸Professor and Head, Endowed Chair of Oral Technology, Rheinische
21 Friedrich-Wilhelms-University, Welschnonnenstr. 17, 53111 Bonn, Germany

22

23 **Correspondence to:** Dr. Ludger Keilig, Endowed Chair of Oral Technology,
24 Rheinische Friedrich-Wilhelms University, Welschnonnenstr. 17, 53111 Bonn,
25 Germany. Tel: +49 228/287-22073. E-mail: ludger.keilig@uni-bonn.de

26

27 **Words in abstract:** 238

28 **Words in text:** 2,320

29

Download English Version:

<https://daneshyari.com/en/article/8460804>

Download Persian Version:

<https://daneshyari.com/article/8460804>

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