

Supplement 1.

To the request of opponent Dr. Csaba CSONKA (Department of Biochemistry, Faculty of Medicine, University of Szeged) we make the following additional/clarifying remarks to the thesis of Dr. Krisztina UNGVÁRI:

The article A. Stájer, **K. Ungvári**, I. K. Pelsőczi, H. Polyánka, A. Oszkó, E. Mihalik, Z. Rakonczay, M. Radnai, L. Kemény, A. Fazekas, K. Turzó: Corrosive effects of fluoride on titanium: investigation by X-ray photoelectron spectroscopy, atomic force microscopy and human epithelial cell culturing. *J Biomed Mater Res A* 2008; 87:450-458 is directly related to two different PhD theses as of the thesis of the first author Dr. Anette Stájer (2012) and the second author (Dr. Krisztina Ungvári, present). In the aforementioned paper, the first author A. Stájer was responsible for the atomic force microscopy (AFM), X-ray photoelectron spectroscopy (XPS), and the scanning electron microscope (SEM) measurements, while the second author K. Ungvári performed the human epithelial cell culturing experiments. Therefore, the results of this article were divided before the submissions of any of the PhD thesis as refined in a statement by the first author, which is attached to the present thesis. In agreement with the statement, A. Stájer utilized the AFM, XPS and SEM results in her PhD thesis (2012) and K. Ungvári presented the epithelial cell culture results in her present PhD thesis.

In order to a better understanding of the result of the thesis of K Ungvári, the paragraph *4.1.1. Surface characterization by AFM and XPS* had to be included in the *Results and Discussion* chapter because without these results the conclusions of the epithelial cell viability (MTT) and protein concentration cannot be understood. However, in this supplement we clearly state that the results represented in the first part of paragraph *4.1.1.* (page 37, including Fig 21 and 22, but excluding Fig 23) were presented in the thesis of A. Stájer and, therefore, are not considered as part of the results section of this thesis, and do not represent thesis points of this thesis.

In the body of the thesis in paragraph *5.1. Prophylactic agents used in dentistry* (as a part of chapter 5. *Summary and Conclusions*), we also clearly stated which are the thesis points of the thesis and that the AFM, XPS and SEM results are presented in details in Stájer et al. and the PhD thesis of A. Stájer (2012).

The thesis points of the author refer only to the own results of the candidate K. Ungvári, which are in the second (**K. Ungvári**, I. K. Pelsőczi, B. Kormos, A. Oszkó, Z. Rakonczay, L. Kemény, M. Radnai, K. Nagy, A. Fazekas, K. Turzó: Effects on titanium implant surfaces of chemical agents used for the treatment of peri-implantitis. *J Biomed Mater Res B Appl Biomater* 2010;94:222–229) and third (**K. Ungvári**, I. K. Pelsőczi, B. Kormos, A. Oszkó, M. Radnai, K.

Nagy, A. Fazekas, K. Turzó: Dekontamináló anyagok hatása a titán felszín biointegrációs tulajdonságaira: *in vitro* humán epithel sejt kultúra vizsgálatok. Fogorvosi Szemle 2011;104:9-18) publications of the thesis (page 3) and the epithelial cell culture part of the first article (A. Stájer, **K. Ungvári**, I. K. Pelsőczy, H. Polyánka, A. Oszkó, E. Mihalik, Z. Rakonczay, M. Radnai, L. Kemény, A. Fazekas, K. Turzó: Corrosive effects of fluoride on titanium: investigation by X-ray photoelectron spectroscopy, atomic force microscopy and human epithelial cell culturing. *J Biomed Mater Res A* 2008; 87:450-458) where she is the second author.

Szeged, 22th of July, 2013

Dr. Krisztina Ungvári