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Name of Journal: *World Journal of Transplantation*

Manuscript NO: 31626

Manuscript Type: Original Article

Basic Study

Copper as an alternative antimicrobial coating for implants - an *in vitro* study

Claudia Bergemann, Sarah Zaatreh, Katharina Wegner, Kathleen Arndt, Andreas Podbielski, Rainer Bader, Cornelia Prinz, Ulrich Lembke, J Barbara Nebe

Abstract

Aim: Osteoconductive and antimicrobial properties of a titanium-copper-nitride film and an additional BONIT® coating on titanium substrates was investigated.

Methods: For micro-structuring, the surface of titanium test samples was modified by titanium plasma spray (TPS). On the TPS-coated samples, the titanium-copper-nitride (TiCuN) layer was deposited by physical vapor deposition. The BONIT®

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