

## Accepted Manuscript

Title: Influence of biodegradable polymer coatings on corrosion, cytocompatibility and cell functionality of Mg-2.0Zn-0.98Mn magnesium alloy

Author: Agnieszka Witecka Akiko Yamamoto Joanna Idaszek  
Adrian Chlanda Wojciech Świąszkowski



PII: S0927-7765(16)30278-8  
DOI: <http://dx.doi.org/doi:10.1016/j.colsurfb.2016.04.021>  
Reference: COLSUB 7814

To appear in: *Colloids and Surfaces B: Biointerfaces*

Received date: 26-1-2016  
Revised date: 25-3-2016  
Accepted date: 9-4-2016

Please cite this article as: Agnieszka Witecka, Akiko Yamamoto, Joanna Idaszek, Adrian Chlanda, Wojciech Świąszkowski, Influence of biodegradable polymer coatings on corrosion, cytocompatibility and cell functionality of Mg-2.0Zn-0.98Mn magnesium alloy, *Colloids and Surfaces B: Biointerfaces* <http://dx.doi.org/10.1016/j.colsurfb.2016.04.021>

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.

## Graphical Abstract

## Highlights

1. Water permeability and degradation rate of polymer coating controls ZM21 corrosion.
2. Initial protective effect of the coating is more important than polymer degradation.
3. EIS technique is useful to evaluate protective effect of polymers.
4. PLLA-, PHBV- and PHB-coatings support cell growth and following functionalization.
5. PHBV is the most beneficial for cell proliferation and functionalization.

Download English Version:

<https://daneshyari.com/en/article/598853>

Download Persian Version:

<https://daneshyari.com/article/598853>

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