Accepted Manuscript

Design and development of a hybrid bioartificial water-induced shape memory polymeric material as an integral component for the anastomosis of human hollow organs

Siriana Paonessa, Niccoletta Barbani, Elisa Cibrario Rocchietti, Claudia Giachino, Caterina Cristallini

PII: S0928-4931(16)31629-0

DOI: doi: 10.1016/j.msec.2017.03.039

Reference: MSC 7547

To appear in: Materials Science & Engineering C

Received date: 5 October 2016 Revised date: 29 December 2016 Accepted date: 4 March 2017

Please cite this article as: Siriana Paonessa, Niccoletta Barbani, Elisa Cibrario Rocchietti, Claudia Giachino, Caterina Cristallini, Design and development of a hybrid bioartificial water-induced shape memory polymeric material as an integral component for the anastomosis of human hollow organs. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Msc(2017), doi: 10.1016/j.msec.2017.03.039

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.



ACCEPTED MANUSCRIPT

Design and development of a hybrid bioartificial water-induced shape memory polymeric material as an integral component for the anastomosis of human hollow organs

Siriana Paonessa ^a, Niccoletta Barbani ^a, Elisa Cibrario Rocchietti ^b, Claudia Giachino ^b and Caterina Cristallini ^c

^a Department of Civil and Industrial Engineering, University of Pisa, Pisa, 56122, Italy

^b Department of Clinical and Biological Sciences, University of Turin, Orbassano (Turin), 10043, Italy

^c Institute for Chemical and Physical Processes, IPCF, C.N.R., Pisa, 56122, Italy

Corresponding authors:

* Institute for Chemical and Physical Processes, C.N.R., uos Pisa, Largo Lucio Lazzarino, 56122 Pisa, Italy. Telephone: (+39)0502217802. Fax: (+39)0502217866. e-mail: c.cristallini@diccism.unipi.it

RUNNING TITLE

A bioartificial water-induced shape memory polymeric material for bowel anastomosis **ABSTRACT**

A large number of pathologies require the resection of the bowel and anastomoses to rejoin the two remaining stumps to regain lumen patency. Various materials have been used to rejoin one bowel end to the other such as catgut, stainless steel, and

دريافت فورى ب متن كامل مقاله

ISIArticles مرجع مقالات تخصصی ایران

- ✔ امكان دانلود نسخه تمام متن مقالات انگليسي
 - ✓ امكان دانلود نسخه ترجمه شده مقالات
 - ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
 - ✓ امكان دانلود رايگان ۲ صفحه اول هر مقاله
 - ✔ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
 - ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات