

**MATERIALS RESEARCH SOCIETY
SYMPOSIUM PROCEEDINGS VOLUME 1487**

Biomaterials for Medical Applications

August 12 - 17, 2012
Cancun, Mexico

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571
www.proceedings.com

ISBN: 978-1-63266-085-5

Some format issues inherent in the e-media version may also appear in this print version.

©Materials Research Society 2012

This reprint is produced with the permission of the Materials Research Society and Cambridge University Press.

This publication is in copyright, subject to statutory exception and to the provisions of relevant collective licensing agreements. No reproduction of any part may take place without the written permission of Cambridge University Press.

Cambridge University Press
Cambridge, New York, Melbourne, Madrid, Cape Town,
Singapore, São Paulo, Delhi, Tokyo, Mexico City

Cambridge University Press
32 Avenue of the Americas, New York, NY 10013-2473, USA
www.cambridge.org

Materials Research Society
506 Keystone Drive, Warrendale, PA 15086
www.mrs.org

CODEN: MRSPDH

ISBN: 978-1-63266-085-5

Cambridge University Press has no responsibility for the persistence or accuracy of URLs for external or third-part Internet Web sites referred to in this publication and does not guarantee that any content on such Web sites is, or will remain, accurate or appropriate.

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

TABLE OF CONTENTS

Carbon Nanotubes in Physiological Environment.....	1
<i>R. Cué, G. Del Bosque, A. Sanchez</i>	
Susceptibility of E. coli, P. aeruginosa, S. aureus and S. epidermidis to Different Bismuth Compounds.....	8
<i>Alejandro L. Vega-Jiménez, Edgardo Berea-Montes, Argelia Almaguer-Flores</i>	
Hardening Mechanism through Phase Separation of Beta Ti-35Nb-7Zr-5Ta and Ti-35Nb-7Ta Alloys	13
<i>C. R. M. Afonso, P. L. Ferrandini, R. Caram</i>	
Nanopore Organic-Inorganic Hybrid Materials with Properties of Cell Regeneration: Physicochemical and Morphological Characterization	20
<i>M. A. Hernandez, F. Rojas, F. Hernández, M. A. Salgado</i>	
Scaffolds of Collagen from Nukbone ®	27
<i>Benjamín H. León, Miguel A. Araiza, M. Cristina Piña</i>	
In vitro Evaluation of Arabinoxylan Gels as an Oral Delivery System for Insulin	33
<i>E. Carvajal-Millan, C. Berlanga-Reyes, A. Rascón-Chu, A. L. Martínez-López, J. A. Márquez-Escalante, A. C. Campa-Mada, K. G. Martínez-Robinson</i>	
Arabinoxylans Gels as Lycopene Carriers: In Vitro Degradation by Colonic Bacteria	39
<i>A. Rascón-Chu, A. L. Martínez-López, C. Berlanga-Reyes, E. Carvajal-Millan, A. C. Campa-Mada, A. A. Gardea, A. Orozco-Avitia</i>	
Author Index	