## Journal of Biomedical Materials Research Part B: Applied Biomaterials

Copyright © 2010 Wiley Periodicals, Inc., A Wiley Company

Information for Contributors

## Aims and Scope

Journal of Biomedical Materials Research Part B: Applied Biomaterials is an official journal of the Society for Biomaterials, the Japanese Society for Biomaterials, the Australasian Society for Biomaterials, and the Korean Society for Biomaterials. It is a peer-reviewed journals serving the needs of biomaterials professionals who devise, promote, apply, regulate produce, and market new biomaterials and medical devices. Papers are published on device development, implant retrieval and analysis, manufacturing, regulation of devices, liability and legal issues, standards, reviews of different device areas, and clinical applications. Published manuscript fit into one of six categories: original research reports, clinical device-related articles, short research and development reports, review, special report, or columns and editorials. Manuscripts from all countries are invited but must be in English. Authors are not required to be members of a Society for Biomaterials.

**Upon Acceptance:** Manuscript files will now automatically be sent to the publisher for production. It is imperative that files be in the correct format to avoid a delay in the production schedule. Copyright Transfer Agreements must be mailed to the Journal Administration Office immediately upon acceptance at the following address: Ms. Lisa Brodsky, Assistant Managing Editor, JBMR c/o John Wiley & Sons, Inc., 111 River Street (MS 8-02), Hoboken, NJ 07030-5774.

**Review Process:** All original reports and reviews receive critical review by at least two reviewers with expertise in the major subject area of the paper. Reviewers may recommend "Acceptance as is," "Acceptance with modification," or "Rejection." If modification is required, the manuscript is returned to the author(s). The revised manuscript is then re-reviewed by the original reviewers, and even re-revised if necessary. Differences in opinion are resolved by submission either to a third reviewer or the Editor.

## August 2011

Volume 98B, Issue 2

Pages 203-407

*In vitro* biodegradation behavior of magnesium and magnesium alloy (pages 203–209)

Hao Wang and Zhiming Shi

Article first published online: 5 JUL 2011 | DOI: 10.1002/jbm.b.31769

<u>Characteristics of hydroxyapatite film formed on human enamel with the</u> powder jet deposition technique (pages 210–216)

Ryo Akatsuka, Keiichi Sasaki, Mohammed Saeed Sepasy Zahmaty, Miyoko Noji, Takahisa Anada, Osamu Suzuki and Tsunemoto Kuriyagawa

Article first published online: 16 JUN 2011 | DOI: 10.1002/jbm.b.31781

A novel hydroxyapatite ceramic bone substitute transformed by ostrich cancellous bone: Characterization and evaluations of bone regeneration activity (pages 217–222)

Yasunori Sawada, Akishige Hokugo, Yaowu Yang, Masayuki Kamitani, Sakiko Matsuda, Tianqiu Mao, Delin Lei, Fulin Chen, Tomio Iseki and Shosuke Morita

Article first published online: 16 JUN 2011 | DOI: 10.1002/jbm.b.31783

A new approach to prepare well-dispersed CaF2 nanoparticles by spray drying technique (pages 223–229)

Limin Sun, Laurence C. Chow, John E. Bonevich, Tongxin Wang and James W. Mitchell

Article first published online: 21 JUN 2011 | DOI: 10.1002/jbm.b.31800

<u>Single-step mineralization of woodpile chitosan scaffolds with improved cell compatibility (pages 230–237)</u>

Lihua Li, Bo Li, Mingyan Zhao, Shan Ding and Changren Zhou

Article first published online: 16 JUN 2011 | DOI: 10.1002/jbm.b.31811

Optimizing gelling parameters of gellan gum for fibrocartilage tissue engineering (pages 238–245)

Haeyeon Lee, Stephanie Fisher, Michael S. Kallos and Christopher J. Hunter

Article first published online: 20 MAY 2011 | DOI: 10.1002/jbm.b.31845

Biomedical nanocomposites of poly(lactic acid) and calcium phosphate hybridized with modified carbon nanotubes for hard tissue implants (pages 246–254)

Hae-Hyoung Lee, Ueon Sang Shin, Jae-Ho Lee and Hae-Won Kim

Article first published online: 17 MAY 2011 | DOI: 10.1002/jbm.b.31846

A novel alkali metals/strontium co-substituted calcium polyphosphate scaffolds in bone tissue engineering (pages 255–262)

Wei Song, Qiguang Wang, Changxiu Wan, Tong Shi, David Markel, Ralph Blaiser and Weiping Ren

Article first published online: 18 MAY 2011 | DOI: 10.1002/jbm.b.31847

Implantation of green tea catechin  $\alpha$ -tricalcium phosphate combination enhances bone repair in rat skull defects (pages 263–271)

Reena Rodriguez, Hisamoto Kondo, Myat Nyan, Jia Hao, Takayuki Miyahara, Keiichi Ohya and Shohei Kasugai

Article first published online: 17 MAY 2011 | DOI: 10.1002/jbm.b.31848

<u>Preparation and characterization of novel poly(ε-caprolactone)/biphasic</u> calcium phosphate hybrid composite microspheres (pages 272–279)

Trinh-Quang Bao, Rose-Ann Franco and Byong-Taek Lee

Article first published online: 18 MAY 2011 | DOI: 10.1002/jbm.b.31849

<u>Long-term stability of self-assembled monolayers on electropolished L605</u> <u>cobalt chromium alloy for stent applications (pages 280–289)</u>

Christopher Kaufmann, Gopinath Mani, Denes Marton, David Johnson and C. Mauli Agrawal

Article first published online: 20 MAY 2011 | DOI: 10.1002/jbm.b.31850

Synthesis, self-assembly, and cytotoxicity of well-defined trimethylated chitosan-*O*-poly(ε-caprolactone): Effect of chitosan molecular weight (pages 290–299)

Haiwen Zhang, Guoqiang Cai, Guping Tang, Liqun Wang and Hongliang Jiang

Article first published online: 20 MAY 2011 | DOI: 10.1002/jbm.b.31851

Effects of N-acetylcysteine on TEGDMA- and HEMA-induced suppression of osteogenic differentiation of human osteosarcoma MG63 cells (pages 300–307)

Na Ryoung Kim, Bum-Soon Lim, Hee Chul Park, Kyung Mi Son and Hyeong-Cheol Yang

Article first published online: 20 MAY 2011 | DOI: 10.1002/jbm.b.31852

Portland cement for bone tissue engineering: Effects of processing and metakaolin blends (pages 308–315)

Daniel Gallego-Perez, Natalia Higuita-Castro, Felipe García Quiroz, Olga M. Posada, Luis E. López, Alan S. Litsky and Derek J. Hansford

Article first published online: 6 JUN 2011 | DOI: 10.1002/jbm.b.31853

Development of a biodegradable foam for use in negative pressure wound therapy (pages 316–322)

Jie Liu, Michael J. Morykwas, Louis C. Argenta and William D. Wagner

Article first published online: 6 JUN 2011 | DOI: 10.1002/jbm.b.31854

Complement activation by candidate biomaterials of an implantable microfabricated medical device (pages 323–329)

Andrey Sokolov, Bernt C. Hellerud, Anne Pharo, Erik A. Johannessen and Tom E. Mollnes

Article first published online: 6 JUN 2011 | DOI: 10.1002/jbm.b.31855

<u>Preparation and characterization of bioactive mesoporous calcium silicate—silk</u> fibroin composite films (pages 330–341)

Hailin Zhu, Binwei Wu, Xinxing Feng and Jianyong Chen

Article first published online: 7 JUN 2011 | DOI: 10.1002/jbm.b.31856

Cell adhesion and proliferation studies on semi-interpenetrating polymeric networks (semi-IPNs) of polyacrylamide and gelatin (pages 342–350)

Maneesh Jaiswal, Veena Koul, Amit K. Dinda, Sujata Mohanty and Krishan Gopal Jain

Article first published online: 6 JUN 2011 | DOI: 10.1002/jbm.b.31857

<u>Pulmonary artery chemoembolization in a sheep model: Evaluation of performance and safety of irinotecan eluting beads (DEB-IRI) (pages 351–359)</u>

Minh-Tâm Baylatry, Jean-Pierre Pelage, Michel Wassef, Homayra Ghegediban, Anne-Christine Joly, Andrew Lewis, Pascal Lacombe, Christine Fernandez and Alex Laurent

Article first published online: 7 JUN 2011 | DOI: 10.1002/jbm.b.31858

Spatiotemporal control of proliferation and differentiation of bone marrow—derived mesenchymal stem cells recruited using collagen hydrogel for repair of articular cartilage defects (pages 360–368)

Tomohiro Mimura, Shinji Imai, Noriaki Okumura, Liangman Li, Kazuya Nishizawa, Susumu Araki, Hiroaki Ueba, Mitsuhiko Kubo, Kanji Mori and Yoshitaka Matsusue

Article first published online: 6 JUN 2011 | DOI: 10.1002/jbm.b.31859

<u>Electrochemical investigation of chromium oxide-coated Ti-6Al-4V and Co-Cr-Mo alloy substrates (pages 369–378)</u>

Viswanathan Swaminathan, Haitong Zeng, Daniel Lawrynowicz, Zongtao Zhang and Jeremy L. Gilbert

Article first published online: 6 JUN 2011 | DOI: 10.1002/jbm.b.31861

<u>Guided orientation of cardiomyocytes on electrospun aligned nanofibers for cardiac tissue engineering (pages 379–386)</u>

Dan Kai, Molamma P Prabhakaran, Guorui Jin and Seeram Ramakrishna

Article first published online: 16 JUN 2011 | DOI: 10.1002/jbm.b.31862

<u>Deproteinized dentin: A favorable substrate to self-bonding resin cements?</u> (pages 387–394)

Fábio Barbosa De Souza, Carina Sinclér Delfino, Míriam Lacalle Turbino and Rodivan Braz

Article first published online: 6 JUN 2011 | DOI: 10.1002/jbm.b.31863

<u>Surface characteristics and biological studies of hydroxyapatite coating by a new method (pages 395–407)</u>

Ki-Won Lee, Cheol-Min Bae, Jae-Young Jung, Gi-Bong Sim, Tapash Ranjan Rautray, Hyo-Jin Lee, Tae-Yub Kwon and Kyo-Han Kim

Article first published online: 6 JUN 2011 | DOI: 10.1002/jbm.b.31864