# International Journal of Biomaterials Research and Engineering

July-December 2013, Vol. 1, No. 2

# **Table of Contents**

# RESEARCH ARTICLES

## Characterization of Signal Propagation through Limb Joints for Intrabody Communication

MirHojjat Seyedi, College of Engineering and Science, Research Group-Telecommunications, Electronics, Photonics and Sensors (TEPS), Victoria University, Melbourne, VIC, Australia

Zibo Cai, College of Engineering and Science, Research Group-Telecommunications, Electronics, Photonics and Sensors (TEPS), Victoria University, Melbourne, VIC, Australia

Daniel T. H. Lai, College of Engineering and Science, Research Group-Telecommunications, Electronics, Photonics and Sensors (TEPS), Victoria University, Melbourne, VIC, Australia

# 13 Development of Gelatin Films with Designed Antimicrobial Peptide and Silver Nanoparticles

Mohamed A. Abdalla, Department of Chemistry, Tuskegee University, Tuskegee, AL, USA
Hannah G. Harding, Department of Mechanical Engineering, Tuskegee University, Tuskegee, AL, USA
Temesgen Samuel, College of Veterinary-Medicine, Nursing & Allied Health, Tuskegee University, Tuskegee, AL, USA
Jesse Jayne, College of Agriculture, Environmental and Natural Sciences, Tuskegee University, Tuskegee, AL, USA
Heshmat A. Aglan, Department of Mechanical Engineering, Tuskegee University, Tuskegee, AL, USA

### 30 Visual Orienting Attention was Influenced by Auditory Processing

Shuo Zhao, School of Health Sciences, Graduate School of Medicine, Kyoto University, Kyoto, Japan Chunlin Li, School of Biomedical Engineering, Capital Medical University, Beijing, China Jingling Wu, Biomedical Engineering Laboratory, Graduate School of Natural Science and Technology, Okayama University, Okayama, Japan

Motomi Toichi, School of Health Sciences, Graduate School of Medicine, Kyoto University, Kyoto, Japan

### 41 Artificial Organs

Gerardo Catapano, University of Calabria, Cosenza, Italy Gijsbertus Jacob Verkerke, University of Groningen, Groningen, The Netherlands

### Copyright

The International Journal of Biomaterials Research and Engineering (IJBRE) (ISSN 1947-3575; eISSN 1947-3583), Copyright © 2013 IGI Global. All rights, including translation into other languages reserved by the publisher. No part of this journal may be reproduced or used in any form or by any means without witten permission from the publisher, except for noncommercial, educational use including classroom teaching purposes. Product or company names used in this journal are for identification purposes only. Inclusion of the names of the products or companies does not indicate a claim of ownership by IGI Global of the trademark or registered trademark. The views expressed in this journal are those of the authors but not neccessarily of IGI Global.

The International Journal of Biomaterials Research and Engineering is indexed or listed in the following: Bacon's Media Directory; INSPEC; Media Finder; ProQuest Biological Science Journals; ProQuest Engineering Journals; ProQuest Illustrata: Natural Science; ProQuest Illustrata: Technology; ProQuest Materials Science Journals; ProQuest Natural Sciences Journals; ProQuest SciTech Journals; ProQuest Technology Journals; The Standard Periodical Directory; Ulrich's Periodicals Directory