

Journal of Biomaterials and Nanobiotechnology

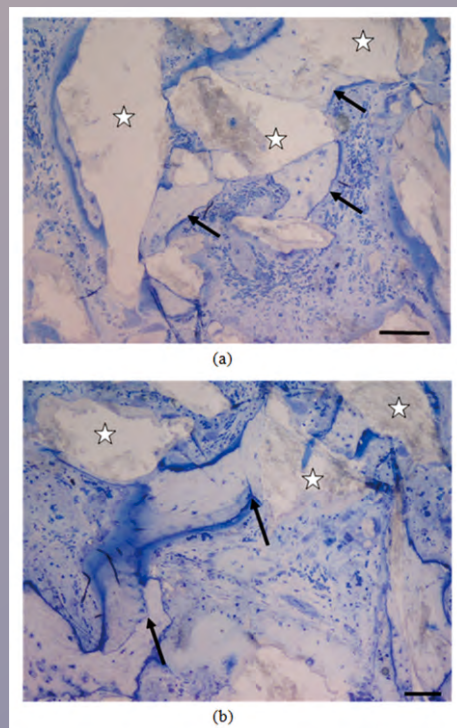


Figure 1. (a) Optical micrograph showing Osteograph® and PepGen P-15® particles (stars) linked by bone bridges (arrows) exhibiting characteristic osteocyte lacunae. Toluidin blue staining. Bar = 100 μm; **(b)** Optical micrograph showing new bone formations interfaced by cement lines (arrows). Stars indicate the implanted particles. Six months after implantation. Bar = 100 μm.

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TABLE OF CONTENTS

Volume 4 Number 1

January 2013

Sintering and Mechanical Properties of Magnesium and Fluorine Co-Substituted Hydroxyapatites

S. Nsar, A. Hassine, K. Bouzouita.....1

Nanostructures: Enhancing Potential Applications in Biomedicals

S. Singh.....12

Effect of Drying Processes on the Texture of Silica Gels

H. Satha, K. Atamnia, F. Despetis.....17

Synthesis and Development of Gd³⁺-ALGDG₂-C595 as MR Imaging Contrast Agent

M. Mirzaei, M. Mohagheghi, D. Shahbazi-Gahrouei.....22

Effect of the Cavity-Cavity Interaction on the Stress Amplitude in Orthopedic Cement

L. Zouambi, B. Serier, H. Fekirini, B. B. Bouiadjra.....30

Isolation and Characterization of Cellulose Whiskers from Kenaf (*Hibiscus cannabinus* L.)

Bast Fibers

L. H. Zaini, M. Jonoobi, P. Md. Tahir, S. Karimi.....37

Osteoconductivity of Superhydrophilic Anodized TiO₂ Coatings on Ti Treated with Hydrothermal Processes

D. Yamamoto, K. Arii, K. Kuroda, R. Ichino, M. Okido, A. Seki.....45

Nanoparticle Technology as a Double-Edged Sword: Cytotoxic, Genotoxic and Epigenetic Effects on Living Cells

M. Jennifer, W. Maciej.....53

Ultrastructure and Analytical Features of the Sinus Floor Augmentation with Osteograph[®] and PepGen P-15[®]

J.-C. Dahlet, A. Boukari, M. Collavini, J. Hemmerlé.....64

Surface Modification of Titanium Plate with Anodic Oxidation and Its Application in Bone Growth

S. A. Fadl-allah, M. Quahtany, N. S. El-Shenawy.....74

Preparation of Silk Fibroin Microspheres and Its Cytocompatibility

J. Qu, L. Wang, Y. P. Hu, L. S. Wang, R. C. You, M. Z. Li.....84

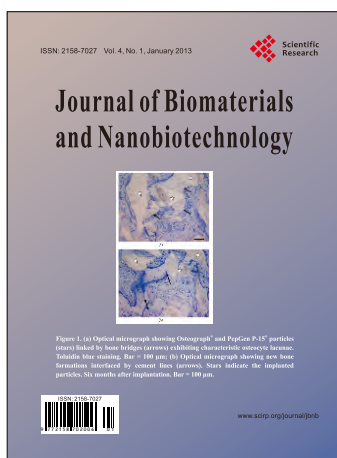
Influence of Fiber Reinforcement on the Properties of Denture Base Resins

R. K. Alla, S. Sajjan, V. R. Alluri, K. Ginjupalli, N. Upadhy.....91

Antimicrobial Susceptibility, Biofilm Production and Adhesion to HEP-2 Cells of *Pseudomonas aeruginosa* Strains Isolated from Clinical Samples

A. V. Zaranza, F. C. Morais, M. S. do Carmo, A. de M. Marques, C. Andrade-Monteiro, T. F. Ferro,
V. Monteiro-Neto, P. de M. S. Figueiredo.....98

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- Nanoparticles (fullerenes, carbon nanotubes, silica based nanoparticles...) as biomarkers and fluorescent tags for cell detection, imaging and drug delivery systems
- Nanocrystals and bio-crystallization processes
- Self-assembly of biological molecules
- Bio-induced nanopatterning, arrays of biological molecules, bioships
- Biomimetics and bio-inspired materials
- Nanocapsules
- Bio-encapsulation, bio-adsorption, controlled release of biomolecules (drugs, proteins, etc.), nutraceuticals
- Nanostructured materials: micro- and nanofluidics
- Photo-induced species and structure conformations of biomolecules in biomaterials
- Bio-MEMS
- Theranostics and diagnostics tools: emerging techniques involved in bio-detection and analysis of individual biological molecules (imaging, spectroscopy, microscopy...)
- Molecular recognition techniques: biosensors
- Biomolecules/surfaces interactions studies: biocompatibility of materials, biomolecules conformations, structure and dynamics at surfaces, molecular interactions, biological activity, thermodynamics and pharmacokinetics of nanostructured materials

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