

SYMPOSIUM E: BIOMATERIALS

Friday, September 14, 2007

Session I: 09⁰⁰-12⁰⁰

Chairpersons: I. Ćosić, Dj. Koruga and J.P. Šetrajčić

- 09⁰⁰-09¹⁵ **POTENTIALITIES OF MAGNETOLIPOSOMES AS INTRACELLULAR THERANOSTICS**
S.J.H. Soenen¹, J. Cocquyt², L. DeFour¹, P. Saveyn², P. Van der Meeren², M. De Cuyper¹
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Particle and Interfacial Technology Group, Faculty of Bioscience Engineering, Ghent University, Ghent, Belgium
- 09¹⁵-09³⁰ **CHEMICAL AND PHYSICAL CHARACTERIZATION OF REGULAR AND ULTRA THIN CHITOSAN FILMS STORED AT VARIOUS TEMPERATURES**
S. Živanović, J. Li, T. Wu, G. Rajpal
University of Tennessee, Knoxville, TN, USA
- 09³⁰-09⁴⁵ **NANOBIOLOGICAL ATOMIC FORCE MICROSCOPY STUDY OF THE SPORULATION OF BACILLUS SUBTILIS**
O. Hekele¹, C.G. Goesselsberger¹, M. Brandstetter¹, R. Sommer², I.C. Gebeshuber¹
¹*Institut fuer Allgemeine Physik, Vienna University of Technology, Vienna, Austria*
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- 09⁴⁵-10⁰⁰ **NANOMEDICINE PERFORMED WITH THE ATOMIC FORCE MICROSCOPE ON HUMAN RED BLOOD CELLS**
O. Hekele, C.G. Goesselsberger, I.C. Gebeshuber
Institut fuer Allgemeine Physik, Vienna University of Technology, Vienna, Austria
- 10⁰⁰-10¹⁵ **SYNTHESIS AND CHARACTERIZATION OF DLPLG NANOPARTICLES FOR CONTROLLED DELIVERY OF WATER-SOLUBLE VITAMINS**
M. Stevanović¹, A. Radulović², D. Uskoković¹
¹*Institute of Technical Sciences of the Serbian Academy of Sciences and Arts, Belgrade, Serbia,* ²*Institute of General and Physical Chemistry, Belgrade, Serbia*
- 10¹⁵-10³⁰ **GENOTOXICITY OF THE POLY-D,L-LACTIDE MICROPARTICLES ON THE HUMAN LYMPHOCYTES**
I. Jovanović,¹ M. Petković,¹ G. Joksić², D. Uskoković¹
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Break: 10³⁰-11⁰⁰

- 11⁰⁰-11¹⁵ **NONLINEAR EXCITATIONS IN Q1D STRUCTURAL POLYMER TRANSITIONS**
G. Keković¹, D. Raković¹, D. Davidović^{2,3}
¹*Faculty of Electrical Engineering, Belgrade, Serbia,* ²*Vinca Institute of Nuclear Sciences, Belgrade, Serbia,* ³*School of Electrical and Computer Engineering, RMIT University, Melbourne, Australia*
- 11¹⁵-11³⁰ **PARAMAGNETIC/DIAMAGNETIC DYNAMICS OF BIOMOLECULES-WATER COMPLEXES ON NANOTESLA SCALE**
Dj. Koruga
Department of Biomedical Engineering, Faculty of Mechanical Engineering, University of Belgrade, Belgrade, Serbia
- 11³⁰-11⁴⁵ **OBTAINING NANO CALCIUM PHOSPHATE/POLY(DL-LACTIDE-CO-GLYCOLIDE) COMPOSITE BIOMATERIAL BY SONOCHEMICAL PROCESSING**
N. Ignjatović¹, M. Dramićanin², D. Vasiljević-Radović³, D. Uskoković¹
¹*Institute of Technical Sciences of SASA, Belgrade, Serbia,* ²*Institute of Nuclear Sciences Vinca, Belgrade, Serbia,* ³*Institute of Chemistry, Technology and Metallurgy, Belgrade, Serbia*

11⁴⁵-12⁰⁰ **SIMILARITIES ANALYSIS ON HYDROXYAPATITE-ZIRCONIA COMPOSITES**

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