

POSTER PRESENTATION

S1 MEMBRANE BIOPHYSICS

- S1.P1** Mihaela Bacalum, Mihai Radu
Interaction between antibiotics and outer membrane porin F studied with fluorescence techniques
- S1.P2** L Buimaga-Iarinca, Vasile Morariu
Short range correlation of the erythrocyte membrane fluctuations
- S1.P3** Magda Dragusin, Ionescu Diana
Quercetin interaction with the artificial lipid membrane. a theoretical model
- S1.P4** Loredana Mereuta, Tudor Luchian, Yoonkynung Park, Kyung-Soo Hahm
Investigation of interactions between reconstituted planar lipid membranes and antimicrobial peptide HPA3
- S1.P5** M. Surleac, L. Bajenaru, L. Rădăcină, M. Iordache, T. Savopol, E. Kovacs
The effects of gentamicin on B16F10 cell membrane generalized polarization

S2 MODELING IN BIOLOGICAL SYSTEMS

- S2.P1** Octavian Calborean, Alexandra Moraru, Andrei TitaMaria Grigoroiu-Serbanescu, Dan Florin Mihailescu
3D models of wild type and mutant TPH2
- S2.P2** B. Cozar, L. Szabó, N. Leopold, V. Chiş, A. Pîrnău, L. David
Spectroscopic and density functional theory investigation of some cardiovascular compounds
- S2.P3** I.O. Doagă, T. Savopol, A. Neagu, Monica Neagu, Eugenia Kovács
The biophysical mechanisms involved in cell adhesion process on solid scaffolds
- S2.P4** Călin G. Floare, Mircea Bogdan, Ossi Horovitz, Aurora Mocanu and Maria Tomoaia-Cotişel
Secondary structure analysis of the N-terminal of the protein extracted from Barley aleurone cells
- S2.P5** Adriana Isvoran, Alecu Ciorsac
A bioinformatics study of phosphofructokinase-1
- S2.P6** Kovacs Katalin, Tosa Valer
Modeling migration of chemical impurities from multilayer packaging materials into foodstuff
- S2.P7** Luminita Moraru, Ana Maria Chiselev
Localization of an object using a BAT model, inspired from biology
- S2.P8** M. Mernea, A. Leca, O. Calborean, M. P. Dinca, T. Dascalu, D. Mihailescu
Bovine serum albumin vibration spectrum in THz domain
- S2.P9** Vasile V. Morariu, Luiza Buimaga-Iarinca
Organization of coding sequences in bacterial genome
- S2.P10** George Necula, Octavian Calborean, Emilia Lupulescu, Dan Florin Mihailescu
A hemagglutinin model of the novel influenza virus H1N1
- S2.P11** Dan Sulica, Jean Vinersan and Diana Ionescu
Analysis of interpolated kinematical data of locomotion - comparison with the raw data

S3 BIOLOGICAL EFFECTS OF IONIZING AND NON-IONIZING RADIATIONS

- S3.P1** D. Ciorba, V. V. Morariu, S. Neamțu, C. Cosma
Zero magnetic field versus radon exposure studies upon Ca^{2+} , Mg^{2+} ions concentration during human blood ageing
- S3.P2** D. Ciorba, V. Morariu, Constantin Cosma, C.Cuceu
Quantification of DNA damage in human lymphocytes by COMET assay during aging in vitro in the presence of radon
- S3.P3** Cuceu Corina, Ciorba Daniela, Pirv Doina, Cosma Constantin
Radon rpidemiology and leukemia studies
- S3.P4** G. Damian, V.Miclaus, L. Bolojan, I. Csillag
Free radicals investigation in γ -irradiated purinethol (6-MP)
- S3.P5** C. Goiceanu, R. Danulescu, E. Dănulescu, F. M. Tufescu, D.E. Creanga
Levels of exposure to magnetic fields generated by magnetotherapy equipments
- S3.P6** M. Iordache, T. Savopol, M. Moiescu, E. Kovacs
Sar distrubution in a cell suspention simulator under 2.45 GHz microwave irradiation
- S3.P7** E. Laszlofi, V. Simon
BSA interaction with simulated body fluid investigated by UV-VIS and fluorescencespectroscopy
- S3.P8** C. Moiescu, D. Piciu, V. Simon
Radiation protection required in diagnosis and treatment procedures with radioiodine
- S3.P9** Silvia Neamtu, Vasile V. Morariu
Geomagnetic activity and plant growth response
- S3.P10** Dan Posa, Georgescu Remus
Surface X ray doses comparison study for conventional and digital radiology equipment in pediatric radiology
- S3.P11** Surducan Emanoil, Vasile Surducan, Camelia Neamtu, Cristian Tudoran
Microwaves power densities measurements for usual wireless applications - recommended cell phone call duration
- S3.P12** Julianna Szakacs, Mariana Tilinca, Maruateri Marius, Ioan Nicolaescu
The Hodgkin disease incidence evolution after accidentally irradiation in Mureș country
- S3.P13** Mariana Tilinca, Marius Marusteri, Julianna Szakacs, Ioan Nicolaescu
Accidental ionizing radiation and its impact on the population

S4 NANOTECHNOLOGY IN LIFE SCIENCE

- S4.P1** Daniela Bindar, Liliana Tartau, Ana Garlea, Loredana Nita, Viorel Melnig
Effects of magnesium soft matter vesicles carrier on the behavioral manifestations in mice
- S4.P2** M. Buleteanu, E. Vanea, V. Simon
EPR investigation of free radicals trapped in dental resins
- S4.P3** D. Georgescu, L. Baia, M. Spinu and S. Simon
Antimicrobial properties of porous TiO_2 -Ag nanostructures
- S4.P4** Mihaela Ilie, Gina Manda, Rica Boscencu, Ionela Neagoe, Radu Socoteanu
Newly developed porphyrins for biomedical application
- S4.P5** M. Maier, V. Parvulescu, R.F.V. Turcu, H. Mocuta, S. Simon
Effect of silver oxide addition on mesoporous alumina structure
- S4.P6** Livia Petrescu, Elena Cotoi, Ana-Maria Voiculescu, Cristina Matei, O. Toma, T. Rosu, V. S. Georgescu, D.F. Mihailescu
Up conversion nanoparticles with applications in biomedicine
- S4.P7** T. Scheul M. Iosin, O. Stephan, S. Astilean and P.L. Baldeck
Cross-linked protein nanostructures using a green Q-switched microlaser
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S4.P8	<u>R. Stiuftuc</u> , F. Toderas, M. Iosin, G. Stiuftuc, C.M. Lucaciu and S. Astilean <i>SPM characterization of biosynthesized nanocrystals</i>
S4.P9	<u>V. Simon</u> , G. Dindelegan, I. Brie, C. Popa, T. Radu, K. Magyari, S. Simon <i>XPS investigation of sol-gel derived biomaterials designed as support for tissue growth</i>
S4.P10	<u>M. Todea</u> , R.V.F.Turcu, M. Tamasan, H. Mocuta, O. Ponta, S. Simon <i>Structure of aluminosilicate spray-dried microspheres</i>
S5	BIOPHYSICAL AND BIOCHEMICAL INVESTIGATIONS IN CELLS AND TISSUE CULTURES
S5.P1	<u>L. Bajenaru</u> , <u>L. Radacina</u> , D. Iancu, M. Surleac, M. Iordache, T. Savopol, E. Kovacs <i>Aminoglycosides action on cultured cells proliferation and reactive species production</i>
S5.P2	<u>Mihaela Ilie</u> , Gina Manda, Ionela Neagoe, Denisa Margina <i>The effect of amiodarone hydrochloride on the transmembrane potential of Jurkat and HUVEC cell</i>
S5.P3	<u>C.M. Lucaciu</u> , G. Damian, Nicoleta Vedeanu, R. Stiuftuc <i>Spin trapping of free radicals in biological media</i>
S5.P4	<u>Servilia Oancea</u> <i>Erythrocyte aggregation for two species of mammals</i>
S5.P5	Ileana Petcu, Adina Daniela Iancu, Crina Stavaru, Beatrice Mihaela Radu, Dorel Lucian Radu, <u>Mihai Radu</u> <i>Oxidative stress characterization in a transgenic murine model of type 1 diabetes</i>
S5.P6	<u>Iurie Paraico</u> , M. Radu, T. Savopol, E. Kovács <i>Preparation and characterization of cell size liposomes as suitable models for liposome-cell fusion</i>
S5.P7	Beatrice Mihaela Radu, <u>Mihai Radu</u> , Daniel Dumitru Banciu <i>Synchronous and periodic calcium oscillations in neuronal networks formed by sensory neurons in primary culture</i>
S5.P8	<u>Diana Rotaru</u> , Beatrice Mihaela Radu, Mihai Radu Adina Iancu, Dorel Lucian Radu <i>Early painful diabetic neuropathy is associated with differential changes in voltage-gated sodium channels in dorsal root ganglion neurons in the mice</i>
S6	SIGNAL PROCESSING FOR DIAGNOSIS AND THERAPY
S6.P1	<u>Dan Chicea</u> , Radu Chicea, Liana Maria Chicea <i>Using dynamic light scattering particle sizing as a fast screening procedure for urine sample analysis</i>
S6.P2	<u>Mariana Carmen Nicolae</u> , Luminița Moraru, Laura Onose <i>Comparative approach for speckle reduction in medical ultrasound images</i>
S6.P3	Laura Onose, Luminita Moraru, <u>Mariana Carmen Nicolae</u> <i>Simulation of acoustic fields from medical ultrasound transducers</i>
S6.P4	<u>I. Oswald</u> , T. Maghiar, S. Cavalu <i>Studies regarding the efficiency of shock waves in the treatment of reno-uretral lithiasis using extracorporeal lithotripsy(ESWL)</i>
S7	MEDICAL APPLICATIONS OF BIOPHYSICAL TECHNIQUES
S7.P1	<u>E. Albert</u> , M. Olariu <i>Pharmaceutical emulsions purity control with light scattering</i>
S7.P2	<u>Elisabeta Antonescu</u> , Cosmin Mihalache, Manuela Pumnea, Felicia Gligor <i>Assessment of the renal function in certain mammals, under the influence of ultrasounds, using ^{99m}Tc</i>
S7.P3	<u>Speranta Avram</u> , Daniel M. Duda-Seiman, Corina Duda-Seiman, Dan Mihailescu <i>Design of new escitalopram derivatives for the treatment of major depressive disorder by 3D-QSAR</i>

S7.P4	<u>Vasile Badescu</u> , Laura Elena Udrea, Ovidiu Rotariu, Rodica Badescu, Gabriela Apreotesei <i>Numerical simulation and in-vitro experimental testing of a HGMS filter for extracorporeal blood purification</i>
S7.P5	Cornelia Mesaros, Andreea Iordache, <u>Monica Culea</u> , Onuc Cozar, Constantin Cosma <i>Diagnosis by mass spectrometry</i>
S7.P6	<u>G. Damian</u> , Vasile Miclaus, C.Cimpoi, L.Bolojan <i>Free radicals detection and characterization by EPR spectroscopy</i>
S7.P7	<u>Mic Mihaela</u> , Silvia Neamtu, Ioan Turcu <i>Thermodynamic characterization of the biomolecular mixing process by Isothermal Titration Calorimetry</i>
S7.P8	<u>Adrian Pirnau</u> , Mihaela Mic, Mircea Bogdan, <i>Study of the inclusion process of vanilin in β-Cyclodextrin by ITC and 1H NMR</i>
S7.P9	Vasile Pompas, Cristian Tudoran, Vasile Surducan, Camelia Neamtu, Roman N. Marius, Simona Miclaus, <u>Emanoil Surducan</u> <i>Thermal microwaves power treatments for medical applications</i>
S8	OTHERS
S8.P1	<u>O. Baban</u> , C. Somesan, D. Rusu, D. Gligor, M. Rusu, L. David <i>Physical– chemical characterization of the potassium 11-tungstovanado (iv) arsenate anion</i>
S8.P2	<u>Mihaela Baican</u> , Dominique Debarno, Fabienne Poncin-Epaillar, Cornelia Vasile <i>Pretreatment of polyvinylidene fluoride surfaces for biosensor applications</i>
S8.P3	D. Rusu, O. Baban, <u>A. Bebu</u> , M. Rusu, D. Ilesan, L. David <i>Spectroscopic studies of polyoxotungstates with dinuclear clusters</i>
S8.P4	<u>C. Gruian</u> , L. Urban, H. Brutlach, L.V. Patmavathi, H-J. Steinhoff, S. Simon <i>Determination of numbers and fractions of H-bonds in pore-forming domain of colicine A by EPR spectroscopy</i>
S8.P5	<u>Adriana Isvoran</u> , Vasile Ostafe <i>Development of human resources involved in biophysics and chemistry realms</i>
S8.P6	<u>Nicolae Leopold</u> , Bernhard Lend <i>On-column silver substrate synthesis and surface-enhanced RAMAN detection in capillary electrophoresis</i>
S8.P7	<u>L. Mogonea</u> , A. Stanila, C. Cosma, Cs. Nagy, <u>A. Bebu</u> , L. David <i>Synthesis and spectral studies of some transition metal complexes with methionine as ligand</i>
S8.P8	<u>O. Ponta</u> , S. Simon <i>The study of nanocrystalline phases developement in noncrystalline mismuth-germanate heavy metal xerogel</i>
S8.P9	Nadia Paun, Violeta Niculescu, <u>Radu Tamaian</u> <i>Parallel determination of some naphthoquinones and flavonoids in carnivorous plants, Drosera sp</i>
S8.P10	<u>M. Tamasan</u> , V. Simon <i>Structural investigation and in vitro behaviour of zinc-containing bioglasses</i>
S8.P11	<u>D. Trandafir</u> , H. Mocuta, R.V.F.Turcu, S. Simon <i>Effect of synthesis parameters on sol-gel spray dried silica-germanate microspheres.</i>
S8.P12	Laura Elena Udrea, Doina Hritcu, <u>Vasile Badescu</u> , Marcel Ionel Popa <i>Biocompatible magnetic microparticles: a colloidal stability study</i>
S8.P13	<u>E. Vanea</u> , K. Magyari, V. Simon <i>Protein adsorption onto aluminosilicates surfaces studied by XPS and FT-IR spectroscopy</i>
S8.P14	<u>N. Vedeanu</u> , A. Pirnau, B. Cozar, O. Oniga, C. Moldovan, C. M. Lucaciu <i>Structural investigation of a new synthesized thiazolidine compound with antimicrobial potential</i>

S8.P15

A. Vulpoi, C. Ionescu, V. Simon

Heat treatment effect on specific surface area of illitic mineral clay
