

POSTER COMMUNICATIONS

	Chairpersons: André Matagne, Pankaj Vadgama, Valerică Raicu, Ioan Turcu	
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Biophysical methods in the study of protein folding, misfolding and assembly		
P Bp 1	<u>Niculina-Sonia Suvar</u> , Ramona Bleiziffer, Paula Podea, Andreea Maria Iordache, Monica Culea	Characterization of Some Seed Extracts by Using Isotopic Dilution-Gas Chromatography-Mass Spectrometry
P Bp 2	Georgiana Petrareanu, Antonio Mondini, Paris Lavin, <u>Alina Vasilescu</u> , Cristina Purcarea	Molecular Adaptations to Low Temperatures of Cold-Active Microbial Catalysts
P Bp 3	Alina Asandei, <u>Isabela Stefania Dragomir</u> , Tudor Luchian, Aldo E Rossini, Mauro Chinappi, Yoonkyung Park	Readout of Small Peptides Primary Structure, with a Protein Nanopore
P Bp 4	<u>Ana-Maria Raicu</u> , David N. Arnosti	Adaptation of a CRISPR Interference Method for Probing Chromatin Properties of Repressor Domains
P Bp 5	<u>Alexandra Farcas</u> , Luiza Buimagă-Iarinca, Porav Sebastian, Lorant Janosi, Calin Floare	Structural Features and Aggregation of NRas Proteins and it's Oncogenic Mutations
In-silico methods		
P Si 1	<u>Luiza Buimaga-Iarinca</u> , Alexandra Farcas, Lorant Janosi	Use of Molecular Docking as a Tool for Comparative Binding Analysis of Large Peptides to Ras Wild Type and Oncogenic Proteins
P Si 2	<u>Lorant Janosi</u> , George Necula, Mihaela Bacalum, Mihai Radu, Ioan Turcu	In silico studies on the dynamics and energetics of histidine-modulated arginine- and tryptophan-based peptides in membrane models
Analytical methods for medical physics		
P Mf 1	<u>Andreea Celia Benchea</u> , Dana Ortansa Dorohoi, Ion Hurjui, Loredana Liliana Hurjui	Solvatochromism and Quantum-mechanical Study of 8-Hydroxyquinoline: Comparison of Solvent Scales
P Mf 2	Costinela Valerica Georgescu, Cristian Catalin Gavati, Doina Carina Voinescu	Spectrophotometric UV analysis method of acetylsalicylic acid in tablets
P Mf 3	<u>Andreea Celia Benchea</u> , Dana Ortansa Dorohoi, <u>Loredana Liliana Hurjui</u> , Ion Hurjui	The Computed Parameters and Solvatochromic Study of Two Fluorescent Molecules
P Mf 4	<u>Radu Dan Necula</u> , Corneliu Drugă, Ionel Serban, Angela Repanovici, Diana Cotoros	Tribological modelling of the hip joint
P Mf 5	<u>Ioana Andreea Brezestean</u> , Alina Tantau, Maria Gorea, Nicolae Har, Leontin David, Simona Cinta Pinzaru	New Data on Growing Mechanism of Human Gallstones from Transylvania, Romania: A joint Confocal Micro-Raman, Polarized Light Microscopy, X-Ray Diffraction and Thermal Analysis Study
P Mf 6	<u>Carmen-Elisabeta Manea</u> , Mirela Mihon, Dana Niculae, Catalin Stelian Tuta	Quality control of radiopharmaceuticals
P Mf 7	<u>Mirela Mihon</u> , Carmen Elisabeta Manea, Dana Niculae	Validation of a color spot test for determination of Kryptofix 2.2.2 in radiopharmaceuticals production
P Mf 8	Cristina Alexandra Constantin, Claudia Chilom, <u>Mihaela Bacalum</u>	Anticancer activity of Luteolin studied in carcinoma and sarcoma cells

P Mf 9	<u>Diana Cotoros</u> , Corneliu Druga, Ionel Serban, Angela Repanovici, Radu Dan Necula	Biomechanical and thermographic study of syndromes induced by human body vibrations
P Mf 10	<u>Diana Cotoros</u> , Ionel Serban, Corneliu Druga, Anca Stanciu, Radu Dan Necula	Influence of variable frequency noise upon the human factor stability
P Mf 11	<u>Ileana-Constanta Rosca</u> , Ionel Serban, Corneliu Nicolae Druga, Dan Radu Necula	LabVIEW routine for encephalographic signal processing LabVIEW routine for encephalographic signal processing
P Mf 12	<u>Adrian Serban</u> , Sebastian Toma, Marius Moga, Monica Florescu	The prevalence of cancers and hormone replacement therapy
Novel materials and biomaterials for analytical methods		
P Bm 1	<u>Manuela Stan</u> , Ildiko Lung, Adina Stegarescu, Ocsana Opris, Simona Gutoiu, Maria-Loredana Soran, Teofil-Danut Silipas, Cristian Leostean, Ovidiu Pana, Mihaela Diana Lazar, Alin Sebastian Porav	Preparation of MnO ₂ /Carbon Nanotubes with Sorption Properties
P Bm 2	<u>Maria Coros</u> , Florina Pogacean, Lidia Magerusan, Marcela-Corina Rosu, Valentin Mirel, Stela Pruneanu	A New Approach Towards the Synthesis of Graphene Based Materials
P Bm 3	Lidia Magerusan, Stefan Gergely, <u>Stela Pruneanu</u> , Florina Pogacean, Maria Coros	Electronic Portable Device for Selective Lead Ion Detection from Different Water Sources
P Bm 4	<u>Stela Pruneanu</u> , Florina Pogacean, Lidia Magerusan, Maria Coros, Marcela-Corina Rosu, Valentin Mirel	Graphene Synthesis by Exfoliation of Graphite Rod via Pulses of Current
P Bm 5	Lidia Magerusan, <u>Florina Pogacean</u> , Maria Coros, Alexandru Turza, Stela Pruneanu	Green Methodology for Chitosan/Carbon Base Nanomaterial Preparation and its Applicability in Sunset Yellow Detection
P Bm 6	<u>Florina Pogacean</u> , Lidia Magerusan, Maria Coros, Valentin Mirel, Stela Pruneanu	Electrochemical Detection of 8-Hydroxy-2'-deoxyguanosine Using Graphene Modified Electrodes
P Bm 7	<u>Laurentiu Susu</u> , Andreea Campu, Simion Astilean, Monica Focsan	Designing Efficient Low Cost Paper-based Sensing Nanoplatforms
P Bm 8	Maria Stefan, Ovidiu Pana, Adriana Popa, Dana Toloman, Teofil-Danut Silipas, Cristian Leostean, Sergiu Macavei, Lucian Barbu-Tudoran, <u>Manuela Stan</u>	Synthesis and Characterization of CoFe ₂ O ₄ @TiO ₂ :Tb Magnetic Recoverable Photocatalyst
P Bm 9	<u>Cristina M. Muntean</u> , Nicoleta E. Dina, Maria Coros, Nicoleta Tosa, Alexandru Turza, Monica Dan, Ioan Turcu	Graphene-Based SERS Platforms for Molecular Diagnosis
P Bm 10	<u>Rodica-Mariana Ion</u>	Microcapsules as Carrier Systems in Photodynamic Therapy
P Bm 11	Marcela-Corina Rosu, <u>Maria Coros</u> , Florina Pogacean, Alexandru Turza, Doina Prodan, Stela Pruneanu	Photocatalytic Ability of Cotton Pads Modified with TiO ₂ -Pt/Reduced Graphene Oxide and SiO ₂ -Pt/Reduced Graphene Oxide Composites
P Bm 12	Lacramioara Oprica, <u>Larisa Popescu</u> , Maria Balasoiu, Alexander Kuklin, Dorina Creanga	Silver nanoparticles synthesized by green chemistry method and their bioimpact on environmental microorganisms
P Bm 13	<u>Sourav Das</u> , Zoltán Gazdag, Lajos Szente, Mátyás Meggyes, Györgyi Horváth, Tamás Kőszegi	Antioxidant and Antimicrobial properties of Randomly Methylated β Cyclodextrin complexed Essential Oils
P Bm 14	<u>Ceren Durmus</u> , Eda Aydindogan, Zinar Pinar Gumus, Takeshi Endo, Shuhei Yamada, Suna Timur, Yusuf Yagci	Catechol-attached Polypeptide with Functional Groups as Electrochemical Sensing Platform for K ₂ -Spice
P Bm 15	<u>Eda Aydindogan</u> , Takeshi Endo, Shuhei Yamada, Suna Timur, Yusuf Yagci	Catechol-bearing Polypeptide Modified Gold Nanoparticles for Point-of-Care Detection of Immunoglobulin G as a Cancer Biomarker

P Bm 16	<u>Melinda David</u> , Hugo C. Novais, Christopher M.A. Brett	Deep Eutectic Solvents as Ecological Media for the Development of Novel Redox Polymer-Film Modified Electrochemical Sensors
P Bm 17	<u>Adrian Blidar</u> , Bogdan Feier, Robert Săndulescu, Cecilia Cristea	Electrochemical Behaviour Of Vancomycin And Its Direct Detection On A Graphene Based Electrochemical Sensor
P Bm 18	Andra Mihaela Predescu, <u>Ecaterina Matei</u> , Maria Râpă, Cristian Pantilimon, George Coman, Cătălin Gradinaru, Cristian Predescu	Formulations and investigations of chitosan/polyvinyl alcohol blends for various applications
P Bm 19	<u>Violeta-Carolina Niculescu</u> , Nadia Paun, Marius Miricioiu, Mihaela Iordache	Highly efficient, rapid, and simultaneous removal of dyes from wastewater using mesoporous silica
P Bm 20	<u>Rita Csepregi</u> , Viktória Temesfői, Tamás Kőszegi	Multiparametric Green Fluorescent Protein-Based Microplate Cell Viability Assay
P Bm 21	<u>Ecaterina Matei</u> , Andra Predescu, Maria Rapa, Andrei Berbecaru, Claudia Dragan, Mirela Sohaciu, Cristian Predescu	Novel bio-composite used for Cr(VI) removal from effluents
P Bm 22	Maria Mihăilescu, Adina Negrea, Mihaela Ciopec, Petru Negrea, Gerlinde Rusu, Narcis Duteanu, <u>Alina Barbulescu</u>	Palladium Retrieval From Residual Waters Resulted From Galvanotechnology Industry
P Bm 23	Nadia Paun, <u>Violeta Carolina Niculescu</u> , Marius Gheorghe Miricioiu	Mesoporous silica-media for natural anthocyanins dye adsorption
P Bm 24	Ioan Milosan , <u>Monica Florescu</u> , Daniel Cristea, Mihai-Alin Pop, Tibor Bedo	Electrochemical Evaluation of Heat-Treated AISI 316 Stainless Steel in Solar Furnaces to be used as possible implant material

Medical analysis and diagnosis

P Ma 1	Cristina Surdu-Bob, <u>Cristin Coman</u> , Ene Vlase, Florica Barbuceanu, Daniela Ionita, Marius Badulescu	Copper Toxicity Of Metallic Bone Implants – A Pilot Study
P Ma 2	<u>Cristin Coman</u> , Ene Vlase, Cristina Surdu-Bob, Florica Barbuceanu, Mihaela Ene, Florina Zorila, Danut Turcu, Alexandru Anghel	Preliminary Studies On The Effectiveness Of Targeted Copper And Silver Therapy Against Established Osteomyelitis
P Ma 3	<u>Bianca Elena Popovici</u> , Maria Mitrica, Ioana Nitu, Flaviu Moldovan	Variation of Blood Pressure in Adolescents Population in Brasov District
P Ma 4	<u>George Madalin Danila</u> , Mihaela Puiu, Lucian Gabriel Zamfir, Camelia Bala	Development of an Enzyme-Linked Immunosorbent Assay to Ghrelin Agonists and Antagonists Detection
P Ma 5	<u>Christina Zalaru</u> , Veronica Georgiana Preda, Marianta Alexandra Strinoiu, Bianca Georgiana Patrascu, Florea Dumitrascu, Constantin Draghici, Isabela Ana Tarcomnicu, Maria Marinescu, Marilena Ferbinteanu, Andrei Juncu	Synthesis and cytotoxicity of new aminopyrazolo-benzimidazoles derivatives
P Ma 6	<u>Christina Zalaru</u> , Cristina Croitoru, Georgiana Adriana Popa, Luisa Gabriela Ilie, Florea Dumitrascu, Constantin Draghici, Rodica Tatia, Lucia Moldovan, Marilena Ferbinteanu	Synthesis, cytotoxicity and antitumor activity of new halogenoaminopyrazoles derivatives
P Ma 7	Alexandru Milentie Hada, <u>Monica Potara</u> , Sorina Suarasan, Adriana Vulpoi, Emilia Licarete, Simion Astilean	4MBA Labeled Chitosan Coated Gold-Silver Core-Shell Nanoparticles as In Vitro SERS Traceable pH Sensors
P Ma 8	<u>Monica Florescu</u> , Melinda David	Development and Evaluation of Novel Polymer-Based Tyrosinase Biosensor for Selective Dopamine Detection

Microspectroscopy

P Sp 1	<u>Cristina Balan</u> , Monica Baia	Experimental Micro-Raman and IR spectroscopic analysis of amikacin combined with DFT-based calculations
P Sp 2	<u>Alia Colnita</u> , Ana Maria Raluca Gherman, Tiberiu Szoke-Nagy, Ionut Bogdan Cozar, Nicoleta Elena Dina	The Use of In situ Surface Enhanced Raman Spectroscopy Technique for Antibiotic Resistance Determination of Pathogenic Microorganisms
P Sp 3	<u>Nelya V. Doroshkevich</u> , Grigory M. Arzumanyan, Kahramon Z. Mamatkulov, Hanna V. Bandarenka	Detection of DNA molecules by SERS spectroscopy with silvered porous silicon as an active substrate
P Sp 4	<u>Ioana Andreea Brezestean</u> , Fran Nekvapil, Leontin David, Simona Cinta Pinzaru	Microbial Community From Cojocna Balneary Lakes: Rich Resource Of Carotenoids Ascertained By Resonance Raman Micro-Spectroscopy
Analytical methods for (nano)biotechnology		
P Nb 1	<u>Claudia Maria Gutu</u> , Octavian Tudorel Olaru, Anca Ungurianu, Denisa Marilena Margina, Mihaela Ilie, Dumitru Lazurca, Monica Florescu	Berries Buckthorn Oil - Subcritical Fluid Extraction, Chemical Characterization And Biological Efficacy Of A Potential Food Supplement
P Nb 2	<u>Claudia Maria Gutu</u> , Octavian Tudorel Olaru, Anca Ungurianu, Mihaela Ilie, Denisa Marilena Margina, Dumitru Lazurca, Monica Florescu	Lavandula Oil – extraction, chemical characterization and potential biological effects
P Nb 3	<u>Alina Vasilescu</u> , Claudia Valentina Popa, Simona-Carmen Litescu, Andrei Florin Danet	Antioxidant Capacity Determination by Using Nano-Oxides of MoO ₃ and CeO ₂
P Nb 4	<u>Adrian Pirnau</u> , Mircea Bogdan, Calin G Floare , Mihaela Mic, Silvia Neamtu	Competitive Binding of Tolmetin to b-CD and HSA
P Nb 5	<u>Alia Colnita</u> , Daniel Marconi, Maria Suciu, Lucian Barbu-Tudoran, Ioan Turcu	Fabrication of Nanotrenches and Microfluidic Channels for Biomolecular Detection
P Nb 6	Mihaela Mic, <u>Adrian Pirnau</u> , Maria Miclaus, Calin G. Floare, Iren Kasco, Mariana Palage, Mircea Bogdan	Molecular Interaction between Drugs with Antimicrobial Activity and Macromolecular Receptor
P Nb 7	<u>Livia Neagu</u> , Ioan Dorobantu	Nanoimmunosorbents based on functionalized SiO ₂ nanoparticles used in affinity chromatography techniques to separate antibodies from complex biological mixtures (antisera)
P Nb 8	<u>Daniel Marconi</u> , Alia Colniță, Radu Tiberiu Brățfălean, Ioan Turcu	Single-step Fabrication Of Silicon Nanocones For Biosensing Applications
P Nb 9	Zagrai Mioara, <u>Dehelean Adriana</u> , Rada Simona, Pica Maria, Culea Eugen	Structural and optical properties of the gadolinium-lead-borate glasses and vitroceramics
P Nb 10	<u>Simona-Carmen Litescu</u> , Andrei-Florin Danet, Claudia Valentina Popa, Georgiana Badea, Viorica Tamas, Alexandru Suciu	Valorization of By-Product Rezulted in Processing of Milk Thistle Oil by Cold Pressing. Recovery of Silymarin
P Nb 11	<u>Irina Schiopu</u> , Andrei Ciuca, Alina Asandei, Aurelia Apetrei, Chang Ho Seo, Yoonkyung Park, Tudor Luchian	Exploring PNA-DNA Hybrids with a Nanopore-Based Technique
P Nb 12	<u>Ana Maria Raluca Gherman</u> , Daniel Marconi, Alia Colniță, Laszlo Szabo, Nicolae Leopold, Tiberiu Szoke-Nagy, Nicoleta Elena Dina	Microfluidic Portable Device for Pathogens' Rapid SERS Detection
P Nb 13	Alina Asandei, <u>Andrei Ciuca</u> , Irina Schiopu, Aurelia Apetrei, Loredana Mereuta, Chang Ho Seo, Yoonkyung Park, Tudor Luchian	Single-Molecule Study of pH- and Salt-Induced Conformational Changes of PAMAM-G1 and -G1.5 Dendrimers, with Protein Nanopores
P Nb 13	<u>Cristina Ileana Covaliu</u> , Ecaterina Matei, Iosif Hulka, Gigel Paraschiv	Study of Activated Carbon Performance For Depollution of Wastewater Containing Organic (C ₆ H ₆ and C ₆ H ₅ -CH ₃) And Inorganic (Pb ⁺² and Zn ⁺²) Pollutants

P Nb 14	<u>Fran Nekvapil</u> , I Brezestean, B Glamuzina, S Tomšić, L Barbu-Tudoran, V Chis, S Cinta Pinzaru	Natural Biocomposite Material with Antioxidant Properties and a Source of Valuable Compounds: the Cuticle of <i>Squilla mantis</i> Shrimp
P Nb 15	Ecaterina Matei, <u>Cristina Covaliu</u> , Andra Predescu, Andrei Berbecaru, Claudia Dragan, Cristian Predescu	Depollution of wastewaters using nanobiotechnology based on new TiO ₂ photocatalyst
P Nb 16	<u>Lavinia Gabriela Carpen</u> , Tomy Acseste, Diana Iulia Savu, Maria Adriana Acasandrei, Elena Matei, Claudia Gabriela Chilom, Gheorghe Dinescu	Influence of Nanometric Tungsten Dust on Fibroblasts Cells
P Nb 17	<u>Paulina Komorek</u> , Robert Stokłosa, Joanna Zemła, Małgorzata Lekka, Barbara Jachimska	Physicochemical characterization of poly-L-lysine and its interactions with globular proteins
P Nb 18	<u>Larisa Popescu</u> , Dorina Creanga, Liviu Sacarescu, Marian Grigoras, Nicoleta Lupu	The magnetic contamination of Fe ₃ O ₄ @GA against some biotic components of the environment
P Nb 19	<u>Diana Stegarus</u> , Constantin Paladi, Ecaterina Lengyel, Roxana Ionete	Bacteria Involvement in Biodegradation of Chlorinated Organic Compounds in Ground Water
P Nb 20	<u>Diana Stegarus</u> , Ramona Cristea, Roxana Ionete, Ecaterina Lengyel, Mircea Toderici	PCB and Pesticides Monitoring and its Implications to Food Quality Assessment - Case Study on Milk
P Nb 21	Leopold Tie, Monica Focsan, Cristian Tira, Andreea Campu, Adriana Vulpoi, Jocelyne Bosson, Simion Astilean	Controlling the End-to-End Assembly of Gold Nanorods to Enhance the Plasmonic Response in Near Infrared (NIR)
Atomic and nuclear methods		
P Na 1	<u>Afag Madadzada</u> , Marina V. Frontasyeva, Sevinj R. Hajiyeva, Margarita S. Shvetsova, Zarifa T. Veliyeva, Orxan B. Hajiyev	Assessment of Atmospheric Deposition of Trace Elements in Baku (Azerbaijan) Using Moss Bags
P Na 2	Irina Fierascu, Valentin Raditoiu, Cristian Andi Nicolae, Alina Raditoiu, Raluca Somoghi, Monica Raduly, Bogdan Trica, <u>Radu Claudiu Fierascu</u> , Lia Mara Ditu	Analytical Characterization and Potential Applications of Metal-Substituted Apatitic Materials
P Na 3	<u>Gabriela Ioana Cristea</u> , Cezara Voica, Adriana Dehelean, Dana Alina Magdas, Ioana Feher, Romulus Puscas, Florina Covaciu	Application of Isotopic and Elemental Profiling in Food Products and Beverages
P Na 4	<u>Dehelean Adriana</u> , Kovacs Melinda, <u>Magdas Dana Alina</u> , <u>Cristea Gabriela</u> , <u>Feher Ioana</u>	Baby food supplements quality evaluation through different analytical methods
P Na 5	<u>Afag Madadzada</u> , Jalal A. Nagiyev, Aydan A. Garibli, Marina V. Frontasyeva, Adil A. Garibov	ENAA of Soil Samples from Small District of Azerbaijan: Search for Actinides
P Na 6	Radulescu Cristiana, Claudia Stih, Monica Florescu, Dumitru Lazurca, Ioana Daniela Dulama, Sofia Teodorescu, <u>Radu Lucian Olteanu</u> , Raluca Maria Stirbescu	Bioactive Properties and Chemical Composition of Juglans Regia L. Extracts
P Na 7	<u>Gabriela Ioana Cristea</u> , Dana Alina Magdas, Cezara Voica, Ioana Feher, Romulus Puscas, Stelian Radu, Valentin Mirel	Isotopic and Elemental Fingerprint of Transylvanian Pork Meat
P Na 8	Radulescu Cristiana, Alina Bintintan, Mihai Gligor, Rodica Mariana Ion, Ioana Daniela Dulama, Claudia Stih, Sofia Teodorescu, Raluca Maria Stirbescu, <u>Radu Lucian Olteanu</u> , Ioan Alin Bucurica	Pollution Effects on Painted Pottery of Romanian Cultural Heritage
P Na 9	<u>Margarita Shvetsova</u> , Marina Frontasyeva, Inna Kamanina, Sergey Pavlov, Afag Madadzada,	Active Moss Biomonitoring With Moss Sphagnum Girgensohnii in the Park of Moscow

	Konstantin Vergel	
Biomembranes and model membranes		
P Mm 1	<u>Corina Ciobanasu</u> , Isabela Dragomir, Aurelia Apetrei, Tudor Luchian	Penetrating Properties of LyP-1 Homing Peptides in Giant Unilamellar Vesicles
P Mm 2	<u>Alexandra Besleaga</u> , Aurelia Apetrei, Lucel Sirghi	Investigation of molecular interactions between antimicrobial peptides and biomimetic lipid membranes
P Mm 3	<u>Ion Hurjui</u> , Dana Ortansa Dorohoi, <u>Ionela Lacramioara Serban</u> Andreea Celia Benchea, <u>Irina Gradinaru</u> , <u>Loredana Liliana Hurjui</u> ,	Spectral study of model membrane fluidity using a fluorescent marker
P Mm 4	<u>Bogdan Zorila</u> , Mihaela Bacalum, Mihai Radu	Evaluation of Lipid Membrane Tryptophan Rich Peptides Bound Fraction by Fluorescence Spectrum Deconvolution