

ORAL COMMUNICATIONS

May 23th 2018	Building <i>Aula Magna</i> of Transilvania University of Brasov. 41 A Iuliu Maniu Street, Brasov, 500091, Romania.			
	Room <i>Aula Magna</i>, Chairperson: Monica Florescu, Valerică Raicu, Ioan Turcu			
15.00-16.30			Registration	
16.30-16.40			Opening Ceremony	
16.40-17.20	Plenary Lecture	P1	Graeme Milligan University of Glasgow, UK	GPCR Quaternary Structure and Possible Implications for Drug Discovery
17.20-18.00	Plenary Lecture	P2	Marius Schmidt University of Wisconsin- Milwaukee, USA	Mix-And-Inject at Free Electron Lasers
18.00-20.00			Welcome Party and Poster Session (odd numbers)	

May 24th 2018	Building Aula Magna of Transilvania University of Brasov. 41 A Iuliu Maniu Street, Brasov, 500091, Romania.			
	Room UI6, Chairperson: André Matagne			
9.00-9.40	Plenary Lecture	P3	Jochen Balbach Martin-Luther-University Halle- Wittenberg, Germany	Conformational Protein Plasticity Studied by NMR Spectroscopy
	Room UI6, Biophysical methods in the study of protein folding, misfolding and assembly, Chairperson: André Matagne			
9.40-10.10	Keynote,	K1	Charlotte Vendrely University of Cergy-Pontoise, France	Weighting Amyloid Fibers
10.10-10.40	Keynote,	K2	Francisco Conejero-Lara Universidad de Granada, Spain	Using Multidisciplinary Biophysical Techniques to Unveil Protein Aggregation Mechanisms
10.40-10.55	Contributed talk	O1	Paulina Komorek Polish Academy of Sciences, Poland	Changes in Lysozyme's II-Structure as a Result of its Interaction with a Gold Surface – A Crucial Step for Alzheimer's Disease Mystery Solving
	Room UI7, Electrified interfaces and biosensing, Chairperson: Pankaj Vadgama,			
9.40-10.10	Keynote	K3	Camelia Bala University of Bucharest, Romania	Molecular Recognition - Versatility and Challenges in the Design of Biosensor
10.10-10.25	Contributed talk	O2	Ana Maria Titoiu International Centre of Biodynamics, Romania	Flow Injection Analysis System Integrating Electrochemical Sensors for Monitoring the Alcoholic Fermentation of Wines
10.25-10.40	Contributed talk	O3	Raluca-Elena Munteanu International Centre of Biodynamics, Romania	Extracellular pH of Cancer Cells and Normal Cells as Revealed with a Voltammetric pH Microsensor
10.40-10.55	Contributed talk	O4	Melinda David Transilvania University of Brasov, Romania	Characterization and Evaluation of Biosensor Architectures Incorporating Nanomaterials as Sensitive Tools for Analytical Detection of Glucose
11.00-11.30	Coffee Break and Poster Session (odd numbers)			
	Room UI6, Biophysical methods in the study of protein folding, misfolding and assembly, Chairperson: Francesco Conejero-Lara			
11.30-12.00	Keynote	K4	Vincent Forge Biosciences and Biotechnology Institute of Grenoble, France	Amyloidosis: Taking Advantage of the Specific Structural Features of Amyloid Fibbers for the Design of Diagnostic
12.00-12.30	EBSA- sponsored speaker	K5	André Matagne University of Liège, Belgium	Improving the Quality of Protein Samples for Higher Quality Results
12.30-12.55	Invited talk	I1	Claudiu Gradinaru University of Toronto, Canada	Signalling via Oligomeric Receptors and G proteins Detected by Single- Molecule Fluorescence
	Room UI7, Electrified interfaces and biosensing, Chairperson: Fred Lisdat,			
11.30-12.00	Keynote	K6	Pankaj Vadgama Queen Mary University of London, UK	Bioelectrochemical Monitoring: The Challenges of Clinical Adaptation

12.00-12.25	Invited talk	I2	Tudor Luchian „Alexandru Ioan Cuza” University, Romania	Interrogation of Biomolecular Structure at Nanoscale
12.25-12.40	Contributed talk	O5	Alina Vasilescu International Centre of Biodynamics, Romania	Stable NADH Detection with Carbon Nanofibers and Meldola Blue-Modified Electrodes
12.40-12.55	Contributed talk	O6	Monica Florescu Transilvania University of Brasov, Romania	Performance Evaluation of Nanozyme Sensors Towards Antioxidant Capacity Detection
13.00-14.00 Lunch				
Room UI6, Chairperson: Valerică Raicu				
14.00-14.40	Plenary Lecture	P4	Anne K. Kenworthy Vanderbilt School of Medicine, USA	Altering Protein Function by Pharmacologically Targeting Membrane Domains
Room UI6, Novel materials and biomaterials for analytical methods, Chairperson: Marius Schmidt				
14.40-15.10	Keynote	K7	Simion Astilean Babes-Bolyai University, Romania	Designing multifunctional plasmonic nanoplatfoms for applications in nanomedicine
15.10-15.25	Invited talk	I3	Robert Sandulescu „Iuliu Hatieganu” University of Medicine and Pharmacy Cluj- Napoca, Romania	Graphene Based Electrochemical Sensors for Biomedical Applications
15.25-15.40	Contributed talk	O7	Victor Diculescu National Institute of Materials Physics, Romania	High Surface Area Flexible Electrodes for Wearable Devices and Actuators
15.40-15.55	Contributed talk	O8	Andreea-Maria Campu Babes-Bolyai University, Romania	Microfluidic Platform for Integrated Plasmonic Dual Detection
Room UI7, Medical analysis and diagnosis, Chairperson: Graeme Milligan				
14.40-15.10	Keynote	K8	Kalina Hristova Johns Hopkins University, USA	The Delta Peptide from Ebola
15.10-15.35	Contributed talk	O9	Adrian Enache National Institute of Materials Physics, Romania	Protein Carbonyl Electrochemical Detection
15.35-15.50	Contributed talk	O10	Mihaela Bacalum Horia Hulubei National Institute for Physics and Nuclear Engineering, Romania	Antimicrobial Effects of Short Tryptophan-and Arginine-Rich Peptide On Methicillin-Resistant Staphylococcus Aureus
15.50-16.45 Coffee Break and Poster Session (even numbers)				
Room UI6, Microspectroscopy, Chairperson: Kalina Hristova				
16.45-17.15	Keynote,	K9	Valerică Raicu University of Wisconsin- Milwaukee, USA	Fluorescence micro-spectroscopy techniques and approaches for characterization of protein association in living cells
17.15-17.40	Invited talk	I4	Ronen Berkovich Ben-Gurion University of the Negev, Israel	Near-wall hydrodynamic effects on tethered DNA under shear flow

17.40-17.55	Contributed talk	O11	Fran Nekvapil Babes-Bolyai University, Romania	Translation of SERS Technique to Hydrobiology: Use of Metallic Plasmonic Nanoparticles to Quench Fluorescence in Raman Spectroscopy Analysis of Natural Fluids
19.00-23.00	Gala Dinner (Restaurant Aro, Brasov – Romania)			
	Room UI7, Analytical methods for (nano)biotechnology, Chairperson: Robert Sandulescu			
16.45-17.00	Contributed talk	O12	Ileana Cristina Covaliu University Politehnica of Bucharest, Romania	Synthesis And Technological Innovation of Fe ₃ O ₄ Nanomaterial Applied in Wastewater Treatment by Flotation
17.00-17.15	Contributed talk	O13	Luminita C. Miclea „Carol Davila" University of Medicine and Pharmacy, Romania	Multiparameter Study of Cultured Cell Behaviour Modified by Nanoparticles
17.15-17.30	Contributed talk	O14	Costinela Valerica Georgescu „Dunarea de Jos"University of Galati, Romania	Volumetric Quantitative Analysis of Pure Ascorbic Acid in Tablets
17.30-17.45	Contributed talk	O15	Elena-Ines Adam-Dima „Carol Davila" University of Medicine and Pharmacy, Romania	Selenium Nanoparticles – Premises for Their Therapeutic Use in Pathologies Related to Oxidative Stress
19.00-23.00	Gala Dinner (Restaurant Aro-Palace, Brasov – Romania)			

May 25th 2018	Building Aula Magna of Transilvania University of Brasov. 41 A Iuliu Maniu Street, Brasov, 500091, Romania.			
	Room Aula Magna, Chairperson: Jochen Balbach			
9.30-10.10	Plenary Lecture	P5	Fred Lisdat Technical University Wildau, Germany	Label-Free Sensing Strategies Using Impedance Spectroscopy, SPR and Photoelectrochemistry
	Room UI6, Medical analysis and diagnosis, Chairperson: Jochen Balbach			
10.10-10.40	Contributed talk	O16	Luiza Buimaga-Iarinca National Institute for Research and Development of Isotopic and Molecular Technologies, Romania	IMAGCELL – Assessing Living Cells Natural Features by Employing Optical Microscopy and Statistical Analysis
10.40-11.05	Contributed talk	O17	Ion Hurjui „Grigore T. Popa" University of Medicine and Pharmacy, Romania	Human Serum Expression Levels of Monocyte Chemoattractant Protein-1 in Type 2 Diabetic Subjects
11.05-11.20	Contributed talk	O18	Ecaterina Radu National Institute of R&D for Technical Physics, Romania	Magneto-Mechanical Actuation of Fe- Cr-Nb-B Magnetic Particles for Destruction of Osteosarcoma Cells
11.20-11.35	Contributed talk	O19	Alexandra Farcas Babeş-Bolyai University, Romania	Cationic Polymers as Drug Delivery Systems
	Room UI7, Analytical methods for medical physics, Chairperson: Tudor Luchian			
10.10-10.35	Invited talk	I5	Alexey Zhemchugov Joint Institute for Nuclear Research, Russia	Spectral CT with a Medipix Detector for Biomedical Applications
10.35-10.50	Contributed talk	O20	Violeta L. Calin „Carol Davila" University of Medicine and Pharmacy, Romania	Potential of Non-Invasive Quantitative Holographic Imaging in Evaluation of Malignancy and Treatment Efficiency of Melanoma Cells
10.50-11.05	Contributed talk	O21	Tomas Kondela Comenius University UK in Bratislava, Slovakia	The Effect of Cholesterol and/or Melatonin on the Amyloid-B Peptides Loaded Model Membranes
11.05-11.20	Contributed talk	O22	Radu – Dan Necula Transilvania University of Brasov, Romania	Low Cost Electrical Muscle Stimulator (EMS) Tested with Biopac
11.20-11.35	Contributed talk	O23	Ileana-Constanta Rosca Transilvania University of Brasov, Romania	Static Analysis of the Human Body Balance Following an Induced Vertigo
11.35-12.00	Coffee Break and Poster Session (even numbers)			
	Room UI6, Novel materials and biomaterials for analytical methods, Chairperson: Simion Astilean			
12.00-12.30	Keynote	K10	George Stan National Institute of Materials Physics, Romania	Comparative in Vitro Behaviour of Bioglass Coatings in Simulated Body Media with Improved Biomimicry: Challenging a Paradigm
12.30-12.45	Contributed talk	O24	Larisa Florea Dublin City University, Ireland	Novel Photo-responsive Structures for microSensors and microActuators
12.45-13.00	Contributed talk	O25	Colm Delaney Dublin City University, Ireland	Boronic Acids for the Generation of Responsive Hydrogels

	Room UI7, Atomic and nuclear methods, Chairperson: Alexey Zhemchugov			
12.00-12.25	Invited talk	I6	Chudoba Dorota Joint Institute for Nuclear Research, Russia	Neutron Scattering Methods in Characterization of Pharmacological Systems
12.25-12.50	Contributed talk	O26	Claudia Stihi Valahia University of Targoviste, Romania	Investigation of Spatio-Temporal Atmospheric Deposition of Cd and Pb in Romania Using Moss Biomonitoring
13.05-13.40	Closing Ceremony			
14.00-22.00	Social Program			