





1st Int. Workshop "PROTEOMICS – from Introduction to Clinical Applications"

Programme

Sunday, 9 th July 2017 Senat Room / UAIC		Senat Room / UAIC
16:00 – 17.00	Registrations	
17:00 – 18:30	Welcome & Opening Addresses Alina Petre, Ionel Mangalagiu & Gabriel Dimot	fte
	Details for the program and short presenta Alina Petre, UAIC and TRANSCEND – IRO, Ia	•
	Novel organic compounds: potent solution lonel Mangalagiu, Faculty of Chemistry, UAIC	
18:30 – 19:00	Guided tour - "Hall of the Lost Footsteps"a of lasi	t "Al. I. Cuza" University
19.00	Welcome buffet	

Monday, 10th July 2017

Senat Room / UAIC

Session 1:	Introductory lectures in Proteomics and related methods Chair: Eugen Carasevici
09:00 – 09:45	Higher order protein structure and dynamics Michael Glocker, Medical University Rostock, DE
09:45 – 10:15	Separation methods: Introduction in Electrophoresis and HPLC Alina Petre, UAIC / TRANSCEND – IRO, RO
10:15 – 11.00	Introduction in mass spectrometry Martina Macht, Bruker Daltonics, DE







11:00 – 11:15	Networking with coffee, soda and sweets
11:15 – 12:00	MS Tools and strategies Martina Macht, Bruker Daltonics, DE
12:30	Lunch at Gaudeamus student restaurant
Session 2:	Mass spectrometry and Imaging Chair: Michael Glocker
14:00 – 14:30	Fragmentation in MS and MS data interpretation Alexey Kononikhin, Institute for Energy Problems of Chemical Physics RASLeninsky, Moscow, RU
14:30 – 15:00	MALDI-Imaging: methodology and examples Alina Petre, UAIC / TRANSCEND – IRO, Iasi, RO
15:00 – 15:30	Understanding protein dynamics using molecular simulations Andrei Neamtu, TRANSCEND – IRO, Iasi, RO
15:30 – 15:45	Networking with coffee, soda and sweets
15:45 – 17:30	5 minutes talks – students and junior researchers
19:00	Dinner at "Berăria veche" restaurant

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Senat Room UAIC

Session 3: Immunoaffinity- mass Spectrometry: Instrumental Development and Novel Analytical Concepts

Chair: Martina Macht

09:00 – 09:50 Affinity- Mass Spectrometry Technologies for Epitope Determination

in Molecular Immunology

Michael Przybylski, Steinbeis Centre for Biopolymer Analysis,

Rüsselsheim, DE







09:50 — 10:40	How to Determine Binding Constants of Protein Complexes in the Gas Phase Michael Glocker, Medical University Rostock, DE
10:40 – 11:00	Networking with coffee, soda and sweets
11:00 – 11.50	Protein quantitation by MRM-MS and iMALDI for biomedical and clinical research and diagnostics Christoph Borchers, University of Victoria Genome British Columbia Proteomics Centre, CA
12:30	Lunch at Gaudeamus student restaurant
14:00	Visit to TRANSCEND - IRO, lasi (only speakers)
Session 4:	Clinical applications of Mass Spectrometry Chair: Christoph Borchers
15:00 – 15:50	Clinical Application of Affinity-Mass Spectrometry in Enzyme Replacement Therapy Michael Przybylski, Steinbeis Centre for Biopolymer Analysis, Rüsselsheim, DE
15:50 – 16:20	Urine peptidome analysis as a promising approach for potential biomarkers search of hypertension disorders Alexey Kononikhin, Institute for Energy Problems of Chemical Physics RASLeninsky, Moscow, RU
16:20 – 16:50	Classification of Cancer Cell Lines using Matrix Assisted Laser Desorption Ionisation Time-of-flight Mass Spectrometry (MALDI-TOF MS) and Statistical Analysis Vlad Serafin, Middlesex University, London, UK
17:00	Guided City Tour
19:30	Dinner at Palas Mall – "La Cupola" restaurant







Wednesday, 12th July 2017

Senat Room / UAIC

Session 5:	New analytical approaches to elucidate biomedical problems Chair: Michael Przybylski
09:15 – 10:00	Recent development in structural proteomics Christoph Borchers, University of Victoria Genome British Columbia Proteomics Centre, CA
10:00 – 10:30	Roche Oncology portfolio: Innovation in EGFR, KRAS, BRAF and NRAS mutation testing Iuliu Ivanov, TRANSCEND - IRO, RO
10.30 – 10:45	Networking with coffee, soda and sweets
10:45 – 11:15	Lactucacapensis mitigate cognitive dysfunction on Aβ1- 42 – induced a rat model of Alzheimer's disease through regulating BDNF mRNA and IL1β mRNA expression and antioxidant system activity Lucian Hritcu, Faculty of Biology, UAIC, RO
11:15 – 11:45	Supramolecular systems for biomedical applications Alexandru Rotaru, Petru Poni Institute of Macromolecular Chemistry, Iaşi
11:45 – 12:00	Enzyme activity determination of Lysosomal Storage Disorders by novel analytic approaches Laura Ion, Faculty of Chemistry, UAIC, RO
	Closing didactic part
12:30	Lunch at Gaudeamus student restaurant
After 14:00	Individual program
14:00 – 15:00	Speakers and organizers brainstorming for next edition of the summer school

Thursday, 13th July 2016

TRANSCEND centre

10:00 – ca.17:00 **Laboratory Practical** (separate program)