

MEDMS III

JUNE 28 – JULY 2, 2015

Athens, GREECE





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ATHENS, GREECE; JUNE 28-JULY 2, 2015

Conference Scientific Program

Sunday		28 June 2015	
Activity	Time	Speakers	
WELCOME PARTY			
Welcome Party	20:00		
Monday		29 June 2015	
Activity	Time	Speakers	
Registration	8:30-9:00		
Welcome Address	9:00-9:15	A. Tsarbopoulos, University of Athens Medical School	
	9:15-9:30	D. Tsipi, President of Hellenic Mass Spectrometry Society	
DRUG DISCOVERY			
Chair: A. Tsarbopoulos - J.L. Griffin			
Oral Presentations	9:30-10:00	M. Rossbach	Precision Medicine: New Genomics, Old Lessons
	10:00-10:20	A. Tsarbopoulos	Exploring Nature's Arsenal for Devising Alzheimer's Disease - Modifying Strategies
	10:20-10:40	E. Gika	Development and Validation of a UHPLC/MS-MS Method for the Determination of Teicoplanin in Plasma of Premature Neonates
	10:40-11:00	N. Sitaras	Ethical Aspects in Clinical Trials
Coffee Break	11:00-11:30		
METABOLOMICS			
Chair: G. Theodoridis – A. Zamfir			
Oral Presentations	11:30-12:00	J.L. Griffin	Fat, Sugar and Metabolomics – Understanding How
	12:00-12:20	G. Theodoridis	Metabolomics-Based Biomarker Discovery In Perinatal Health
	12:20-12:40	M. Filiou	Systems Biology In Biomedicine: The –Omics Perspective
	12:40-13:00	V. Krufft	A Novel Lipid Screening Platform Allowing a Complete Solution for Lipidomics Research
Lunch Break	13:00-15:00		
Poster Session			
IMAGING			
Chair: G. Panayotou - M. Filiou			
Oral Presentations	15:00-15:30	Per Andréén	Quantitative Mass Spectrometry Imaging of Drugs, Neurotransmitters and Neuropeptides Directly in Tissue Sections
	15:30-15:50	M. McDowall	A Novel Platform for Full Spectrum Molecular Imaging
	15:50-16:10	G. Maccarrone	MALDI Imaging - a New Tool for Mapping Multiple Sclerosis Brain Lesions
	16:10-16:30	V. Havlicek	Profiling and Imaging of Microbial Metabolites in Fermentation Broths, Body Fluids and Tissues



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Tuesday 30 June 2015			
Activity	Time	Speakers	
PROTEOMICS			
Chair: G. Allmaier - M. Przybylski			
Oral Presentations	9:30-10:00	R. Zubarev	Proteomics and Cancer Cell Death
	10:00-10:20	G. Panayotou	Proteomic and Transcriptomic Analysis of Arsenite-Induced Oxidative Stress in Mouse Lung Tissue
	10:20-10:40	L. Skultety	Modifications of Lipopolysaccharides, Proteins and Lipids Related to the Phase Variation of Coxiella Burnetii, the Etiological Agent Q Fever
	10:40-11:00	A. Anagnostopoulos	Yield of 6,000 Proteins on a Single Shotgun UPLC-MS/MS Run
Coffee Break	11:00-11:30		
NATIVE MS – NEW TRENDS			
Chair: R. Zubarev - A. Tsarbopoulos			
Oral Presentations	11:30-12:00	G. Allmaier	Electrospraying Viruses – What Information Can We Obtain?
	12:00-12:30	J.-C. Tabet	Inconvertibility of the Hydrogen Bond and Salt Bridge Interactions in Anionic Arginine/Hexose-Phosphate Complexes
	12:30-12:50	V. D'Atri	The Human Telomeric G-Quadruplexes: Structural Characterization by Ion Mobility Mass Spectrometry and Molecular Dynamics Simulations
	12:50-13:10	M. Przybylski	Fragmentation and Aggregation of Physiological and Parkinson- Synucleins Revealed by Ion Mobility and Affinity- Mass Spectrometry
	13:10-13:30	G. Tsoupras	Reveal Greater Details from Your Samples Analysis Utilizing Ion Mobility Mass Spectrometry
Lunch Break	13:30-15:00		
Poster Session			
ENVIRONMENTAL			
Chair: D. Tsipi - G. Giorgi			
Oral Presentations	15:00-15:20	N. Thomaidis	Development of a LC-HRMS/MS Workflow for Suspect and Non-Target Screening of Organic Contaminants of Emerging Concern in Environmental Samples
	15:20-15:40	E. Botitsi	Large Scale Multi-Residue Methods by Gas and Liquid Chromatography-Mass Spectrometry for the Determination of Pesticide Residues in Food Matrices
	15:40-16:00	S. Zervou	Development of a Multi-Class Analytical Method for the Determination of Cyanotoxins in Water Using SPE, LC-ESI-MS/MS
	16:00-16:20	Ghadevaru Sarathchandra	Surveillance of Chloramphenicol Residues in Milk, Eggs and Chicken Meat by LCMSMS
	16:20-16:40	A. Bletsou	Target Screening of 2327 Emerging Pollutants in Environmental Samples by RP-LC-Qtof-HR-MS/MS with an Accurate-Mass Database



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Wednesday 01 July 2015			
Activity	Time	SITE	
Free Day Excursion		ACROPOLIS MUSEUM	
Thursday 02 July 2015			
Activity	Time	Speakers	
		CLOSING PLENARY LECTURE	
Plenary Presentation	9:30-10:10	A. Makarov	Past, Present and Future of Orbitrap Mass Spectrometry
		FUNDAMENTALS Chair: A. Makarov - E. Raptakis	
Oral Presentations	10:10-10:40	E. Nikolaev	The Latest Developments in Ultra-High Resolution FTICR Mass Spectrometry
	10:40-11:00	G. Giorgi	Gas Phase Regio and Stereochemical Differentiation of Biomolecules
	11:00-11:20	A. Lebedev	"Half Way Up a Tree": complete peptidome and advanced MS
	11:20-11:40	D. Papanastasiou	Design and Performance Characterization of a Novel Linear Ion Trap
	11:40-12:00	J. Boulicault	Competitive Attachment Of Cations To Polyanionic Species During MALDI Mass Spectrometry
Coffee Break	12:00-12:30		
		AWARDS	
Short Presentations	12:30-12:40	1st Student Award	
	12:40-12:50	2nd Student Award	
	12:50-13:00	3rd Student Award	
	13:00-13:10	4th Student Award	
		CLOSING	
	13:10-14:00	CONCLUDING REMARKS	



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LIST OF THE POSTER PRESENTATIONS

P1	DRUG DISCOVERY & CLINICAL CHEMISTRY
P1.01	<p>BIOTRANSFORMATION OF CITALOPRAM: IDENTIFICATION OF TRANSFORMATION PRODUCTS BY LC-QTOF-MS/MS <i>V.G. Beretsou, A.K. Psoma, A.A. Bletsou, and N.S. Thomaidis</i> Department of Chemistry, National and Kapodistrian University of Athens, Greece</p>
P1.02	<p>MULTI ISOTOPE IMAGING MASS SPECTROMETRY REVEALS PROTEIN TURNOVER CHANGES IN MOUSE HIPPOCAMPUS UPON ANTIDEPRESSANT TREATMENT <i>Michaela D. Filiou, Christian Webhofer, Christelle Guillemier, Collin Poczatek, Mei Wang, Chris W. Turck, Claude P. Lechene</i> Max Planck Institute of Psychiatry, Munich, Germany</p>
P1.03	<p>MESTEROLONE SULFATE METABOLITES IN HUMAN URINE, AS MARKERS FOR DOPING CONTROL PURPOSES <i>P. Kiousi, Y.S. Angelis, A.G. Fragkaki, Wadha Abushareeda, C. Georgakopoulos, E. Lyris</i> Doping Control Laboratory of Athens, Olympic Athletic Center of Athens "Spyros Louis", Athens, Greece</p>
P1.04	<p>ONLINE BIOSENSOR-MASS SPECTROMETRY: SIMULTANEOUS DETECTION, STRUCTURE DETERMINATION AND AFFINITY QUANTIFICATION OF PROTEIN-LIGAND INTERACTIONS FROM BIOLOGICAL MATERIAL <i>Loredana Lupu, Stefan Slamnoiu, Adrian Moise, Camelia Vlad, Stefan Schildknecht, Marcel Leist, Bastian Hengerer and Michael Przybylski</i> Steinbeis Center for Biopolymer Analysis & Biomedical Mass Spectrometry, Rüsselsheim, Germany</p>
P1.05	<p>ANALYSIS OF NON-STEROIDAL ANTI-INFLAMMATORY DRUGS IN FOOD MATRICES BY HPLC-MS/MS <i>Pavel Metalnikov, Ilia Batov, Alexandre Komarov</i> VGNKI, Moscow, Russian Federation</p>
P1.06	<p>DEVELOPMENT OF A FAST METHOD USING GC/MS FOR THE DETECTION OF 41 PHARMACEUTICALS AND ILLICIT DRUGS IN BLOOD FOLLOWING LIQUID-LIQUID EXTRACTION <i>A.Orfanidis, O.Mastrogianni, P. Stamataki, E.Gika, E.Zaggelidou, G.Theodoridis, N.Raikos</i> Laboratory of Forensic Medicine and Toxicology School of Medicine, Aristotle University, Thessaloniki, Greece</p>
P1.07	<p>UNCOVERING MOLECULAR DETAILS OF FRAGMENTATION AND AGGREGATION OF PHYSIOLOGICAL AND PARKINSON- SYNUCLEINS: ION MOBILITY AND AFFINITY- MASS SPECTROMETRY <i>Michael Przybylski, Stefan Slamnoiu, Mihaela Stumbaum, Camelia Vlad, Kathrin Lindner, Christiaan Karreman, Mark Kipping, Michael Desor, Marcel Leist and Bastian Hengerer</i> Laboratory of Analytical Chemistry and Biopolymer Structure Analysis, Departments of Chemistry and Biology, University of Konstanz, Germany</p>
P1.08	<p>EFFECTS OF HIGH-INTENSITY INTERVAL EXERCISE ON THE METABOLIC FINGERPRINT OF MEN WITH AND WITHOUT METABOLIC SYNDROME <i>Aikaterina Siopi, Vasiliki Manou, Olga Deda, Dimitrios Palachanis, Spyros Kellis, Georgios Theodoridis, Vassilis Mougios</i> Department of Physical Education and Sport Science at Thessaloniki, Aristotle University of Thessaloniki, Greece</p>
P1.09	<p>NOVEL TOOLS FOR DETERMINATION OF IMMUNOREACTIVE PROTEINS OF COXIELLA BURNETII USING IMMOBILIZED POLYCLONAL IGGs ANTIBODIES <i>Gabriela Flores-Ramirez, Lenka Plicova, Maksym Danchenko, Petr Pompach and Ludovit Skultety</i> Institute of Virology, Slovak Academy of Sciences, Bratislava, Slovakia</p>
P1.10	<p>DEVELOPMENT OF A FAST METHOD USING LC-MS/MS FOR THE DETECTION AND QUANTITATION OF 19 PHARMACEUTICALS AND ILLICIT DRUGS IN WHOLE BLOOD, PLASMA AND SERUM <i>P. Stamataki, E.Gika, A.Orfanidis, N.Raikos, G.Theodoridis</i> Laboratory of Analytical Chemistry, Department of Chemistry, Aristotle University, Thessaloniki, Greece</p>

P1.11	<p>A METABOLOMIC STUDY FOR THE DISCOVERY OF MULTIPLE SCLEROSIS BIOMARKERS IN CEREBROSPINAL FLUID BY HRMS AND NMR <i>C. Tsiagkas, D. Benaki, N. Lemonakis, A. Ioannidis, S. Chatzipanagiotou, C. Nikolaou, M. Anagnostouli, E. Mikros, E. Gikas</i> Laboratory of Pharmaceutical Analysis, Department of Pharmacy, School of Health Sciences, National and Kapodistrian University of Athens, Greece</p>
P1.12	<p>MALDI-TOF MASS SPECTROMETRY IDENTIFICATION AND DIFFERENTIATION OF BRUCELLA SPECIES <i>A.L.R.M. Louzan, M.A.B. Caitano, M.G. Santos, N.V. Verbisck, G.M.S. Rosinha</i> Mato Grosso do Sul Federal University – UFMS & Embrapa Beef Cattle - CNPGC, Brazil.</p>
P1.13	<p>COMPOSITIONAL AND STRUCTURAL ANALYSIS OF BRAIN CHONDROITIN/DERMATAN SULFATE HEXASACCHARIDES BY ORBITRAP MASS SPECTROMETRY <i>Laurentiu Popescu, Adrian C. Robu, Florentina D. Munteanu, Daniela G. Seidler, Alina D. Zamfir</i> Mass Spectrometry Laboratory, National Institute for Research and Development in Electrochemistry and Condensed Matter, Romania</p>

P2	PROTEOMICS & METABOLOMICS
P2.01	<p>INVESTIGATION THE EXTENT OF IN VITRO METHYLATION OF GLUTAMIC ACID OR ASPARTIC ACID CONTAINING MODEL PEPTIDES BY ELECTROSPRAY IONIZATION-MASS SPECTROMETRY (ESI-MS) <i>A. Emin Atik, Melda Zeynep Guray, Talat Yalcin</i> Department of Chemistry, İzmir Institute of Technology, Turkey</p>
P2.02	<p>A COMPARISON STUDY IN THE PROCESSING PROCEDURE OF DATA FROM UNTARGETED METABOLOMIC APPROACHES BY UPLC-ESI(-)-HRMS <i>E. Bairá, E. Siapi, P. Zoumpoulakis, S.-G. Deligeorgis, A.-L. Skaltsounis, E. Gikas</i> Department of Pharmaceutical Chemistry, Faculty of Pharmacy, School of Health Sciences, National and Kapodistrian University of Athens, Greece</p>
P2.03	<p>METABOLIC PROFILING OF MC3T3 CELLS: A USEFUL TOOL FOR THE DISCOVERY OF NEW COMPOUNDS FOR THE TREATMENT OF OSTEOPOROSIS. <i>N.G.Bliziotis, D. Benaki, N. Lemonakis, A.Boulaka, M.Alexis, A.L. Skaltsounis, E. Gikas, E. Mikros</i> Laboratory of Pharmaceutical Analysis, Department of Pharmacy, School of Health Sciences, National and Kapodistrian University of Athens, Greece</p>
P2.04	<p>CORRELATION OF ANALYTICAL DATA OBTAINED BY NMR AND LC-MS/MS IN METABOLOMICS STUDIES <i>A.C.Chatziioannou, D. Palachanis, C. Virgiliou, Eleni Gkika, Georgios Theodoridis</i> Department of Chemistry, Aristotle University of Thessaloniki, Greece</p>
P2.05	<p>ALTERATION IN THE LIVER METABOLOME OF RATS WITH METABOLIC SYNDROME AFTER TREATMENT WITH HYDROXYTYROSOL. AN MS AND NMR BASED METABOLOMICS STUDY. <i>I.V.Dagla, N. Lemonakis, H. Poudyal, L. Brown, D. Benaki, Al. Skaltsounis, E. Mikros, E. Gikas</i> Laboratory of Pharmaceutical Analysis, Department of Pharmacy, School of Health Sciences, National and Kapodistrian University of Athens, Greece</p>
P2.06	<p>INVESTIGATING THE ROLE OF LG72 IN SCHIZOPHRENIA BY QUANTITATIVE PROTEOMICS <i>Larysa Teplytska, David M. Otte, Andreas Zimmer, Chris W. Turck, Michaela D. Filiou</i> Max Planck Institute of Psychiatry, Munich & Institute of Molecular Psychiatry, University of Bonn, Germany</p>
P2.07	<p>MULTI-OMICS DRIVEN SELECTIVE MITOCHONDRIAL TARGETING FOR TREATING ANXIETY DISORDERS <i>Markus Nussbaumer, Larysa Teplytska, John M Asara, Mike P. Murphy, Rainer Landgraf, Chris W. Turck, Michaela D. Filiou</i> Max Planck Institute of Psychiatry, Germany & Harvard Medical School, Boston, MA, USA</p>
P2.08	<p>GC-MS AND UPLC-MS/MS BASED-METABOLOMICS OF RAT FECAL SAMPLES <i>O. Deda, A.C. Chatziioannou, S. Fasoula, D. Palachanis, N. Raikos, G.Theodoridis, H. Gika</i> School of Chemical Engineering, Aristotle University of Thessaloniki, Greece</p>
P2.09	<p>PROTEOMIC ANALYSIS OF LEISHMANIA TROPICA ISOLATES IN TURKEY <i>Melda Zeynep Guray, Melike Dinc, Ibrahim Cavus, Ozgur Kurt, Ahmet Ozbilgin, Talat Yalcin</i> Department of Chemistry, Izmir Institute of Technology, Turkey</p>
P2.10	<p>RAPID ISOLATION AND CHARACTERIZATION OF CROCINS, PICROCROCIN AND CROCETIN FROM SAFFRON EXTRACT USING HYDROSTATIC COUNTERCURRENT CHROMATOGRAPHY AND ESI MS <i>Karkoula E., Angelis A., Koulakiotis N.S., Anagnostopoulos D., Halabalaki M., Gikas E., Skaltsounis A.L. and Tsarbopoulos A.</i> University of Athens Medical School, Department of Pharmacology, Athens, Greece</p>

P2.11	<p>INTEGRATED NMR AND UPLC-HRMS PLANT METABOLOMICS STRATEGIES FOR THE INVESTIGATION OF ACRONYCHIA GENUS <i>Eirini Kouloura, Oliver Werz, Jane Hubert, Marc Litaudon, Dimitra Benaki, Emmanuel Mikros, Leandros A Skaltsounis and Maria Halabalaki</i> Department of Pharmacognosy and Natural Products Chemistry, Faculty of Pharmacy, University of Athens, Greece</p>
P2.12	<p>HOW DO I ANALYZE A DOUBLE-BLIND CROSSOVER STUDY? A NUTRI-METABOLOMICS EXAMPLE. <i>Nikolaos Lemonakis, Maria Halabalaki, Vassilios Mougios, Emmanuel Mikros, Nikolaos Bliziotis, Alexios Leandros Skaltsounis, Evangelos Gikas</i> University of Athens, Department of Pharmacy, Athens, Greece</p>
P2.13	<p>ASSESSING THE VARIABILITY OF 15N METABOLIC LABELING-BASED PROTEOMICS IN MOUSE BRAIN AND PLASMA <i>Michaela D. Filiou, Magdalena Soukupova, Christiane Rewerts, Christian Webhofer, Christoph W. Turck, Giuseppina Maccarrone</i> Max Planck Institute of Psychiatry, Munich, Germany</p>
P2.14	<p>COULD PHARMACOMETABOLOMICS UNCOVER THE RESISTANCE TO CLOPIDOGREL? <i>A.I. Milioni, D. Benaki, M.E. Tsoumani, N. Lemonakis, E. Gikas, A.D. Tselepis, E. Mikros</i> Department of Pharmaceutical Chemistry, School of Pharmacy, University of Athens, Athens, Greece</p>
P2.15	<p>STUDY OF DATA PROCESSING STATISTICAL ALGORITHMS TO THE ANALYSIS OF METABOLIC PROFILES OF BIOLOGICAL SAMPLES BY LIQUID CHROMATOGRAPHY COUPLED WITH MASS SPECTROMETRY <i>Chrysovalantou Anastasia Chatziioannou, Alexandros Pechlivanis, Dimitris Palachanis, Eleni Gika, Georgios Theodoridis, Ian Wilson</i> Department of Chemistry, Aristotle University of Thessaloniki, Greece</p>
P2.16	<p>METABOLIC PROFILING OF EXTRAEMBRYONIC COELOMIC FLUID BY UPLC-MS/MS, GC-MS AND NMR ANALYSIS <i>L. Valianou, C. Virgiliou, C. Chantziioannou, E. Tsakelidou, C. Adamou, C. Fotakis, P. Zoumpoulakis, L. Lazaros, G. Makrydimas, H. Gika, G. Theodoridis</i> Department of Chemistry, Aristotle University, Thessaloniki, Greece</p>
P2.17	<p>UPLC-MS METABOLIC PROFILING FOR ASSESSING PRETERM DELIVERY <i>Christina Virgiliou, LEMONIA Valianou, Nikos Raikos, Apostolos Athanasiadis, George Makrydimas, Helen Gika, Georgios Theodoridis</i> Department of Chemistry, Aristotle University, Thessaloniki, Greece</p>
P2.18	<p>RE VISITATION OF THE ORIGINS OF THE COMPETITIVE H₂O, NH₃ AND CO₂ RELEASES FROM DEPROTONATED AMINO ACIDS. <i>Anna Warnet, Marie-Françoise Olivier, Pierre Barbier Saint Hilaire, Yves Gimbert, Ulli Hohenester, François Fenaille, Benoit Colsch, Christophe Junot, Jean-Claude Tabet</i> Université Paris VI (UPMC), Gif Sur Yvette, France</p>

P3	ENVIRONMENTAL & FOOD CHEMISTRY
P3.01	<p>TREND ANALYSIS OF INFLUENT WASTEWATER USING R-BASED SCRIPTS AND NON-TARGET HRMS APPROACHES <i>N.A. Alygizakis, P. Gago-Ferrero, N.S. Thomaidis</i> Department of Chemistry, National and Kapodistrian University of Athens, Athens, Greece</p>
P3.02	<p>CHARACTERIZATION OF IHSS HUMIC AND FULVIC ACID REFERENCE STANDARDS BY DIRECT ANALYSIS IN REAL TIME (DART) HIGH RESOLUTION ORBITRAP MASS SPECTROMETRY (HRMS): A COMPARATIVE STUDY WITH ELECTROSPRAY IONIZATION (ESI) <i>Maxime Bridoux, Sébastien Schramm</i> CEA, DAM, DIF, Arpajon, France</p>
P3.03	<p>LC/MS-BASED QUALITATIVE AND QUANTITATIVE STUDIES OF DECOCTIONS FROM EDIBLE GREENS WIDELY CONSUMED IN GREECE: CICHORIUM SPINOSUM AND CICHORIUM INTYBUS <i>V. Brièudes, A. Angelis, K. Vougianniopoulou, M. Halabalaki, S. Mitakou, A.-L. Skaltsounis</i> Laboratory of Pharmacognosy and Natural Products Chemistry, Department of Pharmacy, University of Athens, Greece</p>
P3.04	<p>METHOD VALIDATION AND UNCERTAINTIES EVALUATION FOR MORE RELIABLE MEASUREMENTS OF DRUG RESIDUES IN THE ENVIRONMENT: A CASE STUDY ON THE SEINE RIVER <i>V. Brièudes, S. Lardy-Fontan, B. Lalere, S. Vaslin-Reimann, and H. Budzinski</i> Laboratoire National de métrologie et d'Essais (LNE), Paris, France</p>
P3.05	<p>AFLATOXIN M1 CONTAMINATION IN RAW MILK FROM TAMILNADU, INDIA <i>Ghadevaru Sarathchandra</i> Pharmacovigilance Laboratory for Animal Feed and Food, Directorate Centre for Animal Health Studies, Tamilnadu Veterinary and Animal Sciences University, India</p>

P3.06	HI-THROUGHPUT MULTIMETHOD FOR THE SIMULTANEOUS DETECTION; QUANTITATION AND CONFIRMATION OF MORE THAN 240 MYCOTOXINS AND METABOLITES BY LC-MS/MS <i>Volker Kruff, Ashley Sage, Jens Dahlmann</i> SCIEX, Darmstadt, Germany
P3.07	BIOPHENOLS-BASED MAPPING OF GREEK EXTRA VIRGIN OLIVE OIL (EVOO) <i>T. Nikou, M Lalioti, P. Stathopoulos, E. Gikas, M. Witt, A. Barsch, M. Halabalaki, A.-L. Skaltsounis</i> Laboratory of Pharmacognosy and Natural Products Chemistry, Department of Pharmacy, University of Athens, Greece
P3.08	ASSESSMENT OF THE NONCOVALENT INTERACTION BETWEEN α-LACTOGLOBULIN DETECTED IN HUMAN MILK AND MALTOOLIGOSACCHARIDES BY CHIP-NANOELECTROSPRAY HIGH RESOLUTION TANDEM MASS SPECTROMETRY <i>Adrian C. Robu, Florina Capitan, Catalin Schiopu, Brian T. Chait, and Alina D. Zamfir</i> National Institute for Research and Development in Electrochemistry and Condensed Matter, Timisoara, Romania
P3.09	ANALYSIS OF POLYGALACTOMANNANS BY ESI-MS <i>Erika Ponzini, Greta Borgonovo, Carlo Santambrogio, Luca Merlini, Yves Galante and Rita Grandori</i> University of Milano-Bicocca, Milan, Italy

P4	FUNDAMENTALS & NEW INSTRUMENTATION
P4.01	ELECTRODE SYSTEM OF THE MONOPOLAR MASS-ANALYZER <i>Michail V. Dubkov, Michail A. Burobin, Igor A. Kharlanov, Dmitry A. Ignatyev</i> Ryazan State Radio Engineering University, Ryazan, Russia
P4.02	QUADRUPOLE MASS FILTER WITH BREAK OF THE LONGITUDINAL AXIS <i>Viktor S. Gurov, Michail V. Dubkov, Vladimir W. Ivanov, Andrey A. Trubitsyn, Artem V. Nikolaev</i> Ryazan State Radio Engineering University, Ryazan, Russia
P4.03	SOME ASPECTS OF SPACE CHARGE EFFECT CALCULATION IN HIGH-RESOLUTION MASS SPECTROMETRY <i>D. Grinfeld, M. Skoblin, I. Kopaev M. Monastyrskiy, A. Makarov</i> Institute for Energy Problems of Chemical Physics & Prokhorov General Physics Institute, Russian Academy of Sciences, Russia
P4.04	CREATING A DIGITAL IMAGE OF ANY SAMPLE IN THE MS/MS SPACE: RECENT ADVANCES IN DATA-INDEPENDENT ACQUISITION <i>Volker Kruff</i> SCIEX, Darmstadt, Germany
P4.05	OPTIMIZATION OF PARAMETERS AFFECTING SIGNAL INTENSITY IN AN LTQ-ORBITRAP IN NEGATIVE ION MODE: A DESIGN OF EXPERIMENTS APPROACH EMPLOYING TWO MODEL COMPOUNDS <i>Nikolaos Lemonakis, Alexios Leandros Skaltsounis, Anthony Tzarbopoulos, Evangelos Gikas</i> Department of Pharmacognosy and Natural Products Chemistry, Faculty of Pharmacy, National and Kapodistrian University of Athens, Greece
P4.06	ION OPTIC OF THE IMS/TOF TANDEM MASS SPECTROMETER <i>Sergey S. Poteshin, Alexey A. Sysoev, Denis M. Chernyshev</i> National Research Nuclear University MPhI, Moscow, Russian Federation
P4.07	SIMULATION OF THE ION TRANSFER PROCESS THROUGH CAPILLARY <i>A.A. Trubitsyn, V.S. Gurov, D.V. Kirushin, E.Yu. Grachev</i> Ryazan State Radio Engineering University, Ryazan, Russia