CENTRAL AND EASTERN EUROPEAN PROTEOMIC CONFERENCE

CEEPC

THE 12TH CENTRAL AND EASTERN EUROPEAN PROTEOMIC CONFERENCE

JOINTLY WITH

THE 39TH ANNIVERSARY OF THE INSTITUTE OF CELLULAR BIOLOGY AND PATHOLOGY "NICOLAE SIMIONESCU"

ADVANCES IN PROTEOMICS AND PROGRESS IN PRECISION MEDICINE

OCTOBER 24-26, 2018, BUCHAREST, ROMANIA

PROGRAM

Organizers

Romanian Academy

Institute of Cellular Biology and Pathology "Nicolae Simionescu"

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WELCOME ADDRESS

Dear Friends and Colleagues,

We, the Organizing committee and the CEEPC Board have the great pleasure to welcome you all to the 12th Central and Eastern European Proteomic Conference in Bucharest, initiated in the first meeting in Prague, Czech Republic in 2007 by Hana Kovarova and Suresh Jivan Gadher. The conference will be held together with the 39th Anniversary of the Institute of Cellular Biology and Pathology "N. Simionescu", the 2018 host of the event.

We salute the presence of eminent speakers and young researchers with whom to share novel ideas and fascinating research, for all to enjoy.

Promoting the European Union international cooperation principles, we are honored to welcome scientists from Europe and USA participating to our Conference, showing again that science is an international enterprise that need to be shared, continuously improved and finally to serve the human kind.

In keeping with the CEEPC philosophies, we have put together a multidisciplinary program focusing on a central theme *Advances in Proteomics and Progress in Precision Medicine*. We hope this topic will not only expand our knowledge in proteomics but also will open diverse new emerging research areas. We will discuss the diverse scientific, clinical and proteomic challenges and the means by which to speed up the translation of findings into viable solutions and/ or therapies for diseases affecting mankind.

We hope you will enjoy the Romanian hospitality, the academic heritage of Bucharest, the productive interactions, networking and friendship.

We wish you a fruitful Conference and a pleasant stay in Romania!

The Organizing Committee

SCIENTIFIC AND SOCIAL PROGRAM

- at a glance -

	WEDNESDAY OCTOBER, 24	THURSDAY OCTOBER, 25	FRYDAY OCTOBER, 26	SATURDAY OCTOBER, 27
Registration	09:00 – 09:30 *ICBP-NS*	08:30 – 09:00 *ICBP-NS*		
Scientific Session	09:30 – 12:00 *ICBP-NS*	09:00 – 10:30 *ICBP-NS*	09:00 – 10:30 *ICBP-NS*	10:00 – 12:00
Coffee Break and poster session		10:30 – 11:00 *ICBP-NS*	10:30 – 11:00 *ICBP-NS*	
Scientific Session		11:00 – 12:35 *ICBP-NS*	11:00 – 12:30 *ICBP-NS*	*National Village Museum "Dimitrie Gusti"*
Lunch	12:00 – 13:00 *ICBP-NS*	12:35 - 13:45 *ICBP-NS*	12:30 – 13:45 *ICBP-NS*	
Scientific Session	14:00 – 15:50 *The Romanian Academy*	13:45 – 15:10 *ICBP-NS*	13:45 – 15:25 *ICBP-NS*	
Coffee Break and poster session	15:50 – 16:10 *The Romanian Academy*	15:10 – 15:40 *ICBP-NS*	15:25 – 16:00 *ICBP-NS*	
Scientific Session	16:10 – 17:30 *The Romanian Academy*	15:40 – 17:15 *ICBP-NS*	16:00 – 16:30 *ICBP-NS*	
CEEPC Board Meeting		17:15 – 17:45 *ICBP-NS*		
Closing Remarks			16.30:17:00 *ICBP-NS*	
Social Program	18:00 – 20:00 *House of Scientists*	19:00 – 21:00 *Ramada Hotel Park*		

ORGANIZING COMMITTEE

Acad. Maya Simionescu, director of ICBP "N. Simionescu"
Dr. Felicia Antohe, head of Proteomics Department
Drs. Luminita Ivan, Elena Uyy, Raluca Maria Boteanu, Viorel Iulian Suica

CEEPC ADVISORY BOARD

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The 12th Central and Eastern European Proteomic Conference Jointly with the 39th Anniversary of the Institute of Cellular Biology and Pathology "Nicolae Simionescu"

Advances in Proteomics and Progresses in Precision Medicine

October 24-26, 2018, Bucharest, Romania

Wednesday, October 24, 2018

09.00 – 09.30 **Registration**

Location: Institute of Cellular Biology and Pathology, "Nicolae Simionescu" (ICBP-NS), 8 B.P. Hasdeu Street, Bucharest

Session 1: 9.30 – 12.00

Chair: Maya Simionescu

Annual Report: on the road from the laboratory bench to precision medicine

Location: "George Palade" auditorium of ICBP-NS

09.30 – 10.00 **Maya Simionescu, Director, ICBP-NS**
ICBP-NS at 39 years

10.00 – 10.15 **Ileana Manduteanu,** Department of Biopathology and Therapy of Inflammation, ICBP-NS

10.15 – 10.30 **Anca Volumnia Sima,** Department of Lipidomics, ICBP-NS

10.30 – 10.45 **Felicia Antohe,** Department of Proteomics, ICBP-NS

10.45 – 11.00 **Alexandrina Burlacu,** Department of Regenerative Medicine, ICBP-NS

11.00 – 11.15 **Anca Violeta Gafencu,** Department of Genomics Transcriptomics and Molecular Therapies, ICBP-NS

11.15 – 11.30 **Adrian Manea,** Department of Genomics Transcriptomics and Molecular Therapies, ICBP-NS

11.30 – 11.45 **Adriana Georgescu,** Department of Pathophysiology and Pharmacology, ICBP-NS

11.45 – 12.00 **Irina Titorencu,** Department of Regenerative Medicine, Laboratory of Mesenchymal Stromal Cells Therapy, ICBP-NS

12:00 – 13:00 **Lunch**
Location: ICBP-NS, 8 B.P. Hasdeu Street

Session 2: 14.00 – 15.50

Co-Chairs: Maya Simionescu, Suresh Jivan Gadher

Opening ceremony of the 12th CEEPC

Location: The Romanian Academy, Calea Victoriei 125

14.00 – 14.10 **Victor Voicu,** Member and Vice-president of the Romanian Academy, Bucharest, Romania

14.10 – 14. 20 **Diana Loreta Păun,** Professor, State Adviser, Department of Public Health, Presidential Administration, Romania

14.20 – 14.40 **Maya Simionescu,** Director of ICBP-NS, Bucharest, Romania
The path to precision medicine: understanding diseases of cell organelles

14.40 – 15.00 **Suresh Jivan Gadher,** Founder Member of CEEPC, K.N. Oxford, United Kingdom
Credibility, cohesion and vision for Central and Eastern European Proteomic Conference

15.00 – 15.20 **Felicia Antohe,** ICBP-NS
Omics frontiers for personalized medicine

15.20 – 15.50 **Ales Svatos,** Max Planck Institute for Chemical Ecology, Jena, Germany
Solving the yellow mystery of Papaver nudicaule with an integrated – omics approach

15.50 – 16.10 **Coffee break**

Session 3: 16.10 – 17.30

Co-Chairs: Felicia Antohe, Ales Svatos

16.10 – 16.50 **Shlomo Sasson**, Institute for Drug Research, Faculty of Medicine, The Hebrew University, Jerusalem, Israel

Exploring glucolipotoxicity in pancreatic beta cells by combining advanced confocal analysis of the subcellular lipid map with proteomics

16.50 – 17.30 **Ingrid Miller,** Institute for Medical Biochemistry, University of Veterinary Medicine, Vienna, Austria

Challenges in Proteomics

18.00 – 20.00 **Welcome and get-together party** *(Location: 9 House of Scientists, Lahovary Plaza, Bucharest*)

Thursday, October 25, 2018

Location: ICBP-NS, 8 B.P. Hasdeu Street

08.30 – 09.00 Registration

Session 4: 9.00 – 10.30

Co-Chairs: Suresh Jivan Gadher, Anca Volumnia Sima

09.00 – 09.40 **Rainer Bischoff**, Groningen Research Institute of Pharmacy, University of Groningen, Groningen, Netherlands
Biomarker discovery and validation – from shotgun proteomics to targeted methods

09.40 – 09.55 **Mangesh Bhide**, University of Veterinary Medicine and Pharmacy, Kosice, Slovakia
Factor H binding proteins of Borrelia: immune evasion tools

09.55 – 10.10 **Jiri Petrak**, BIOCEV, First Faculty of Medicine, Charles University, Vestec, Czech Republic
The Pitchfork Strategy. A multi-pronged approach for membrane proteome profiling

10.10 – 10.30 **Linda Keller,** Application Specialist GE Healthcare Life Sciences, Munich, Germany
Efficient coverage analysis for HCP ELISA assay validation

10.30 – 11.00 Coffee break and poster session

Session 5: 11.00 – 12.35

Co-Chairs: Shlomo Sasson, Ileana Manduteanu

11.00 – 11.30 **Madalina Oppermann**, Thermo Fisher Scientific, Stockholm, Sweden
Wide and Deep: New Reagents and Workflows for Multiplexed Quantification and Targeted Analysis

11.30– 11.45 **Brînduşa Alina Petre**, "Alexandru Ioan Cuza" University of Iasi, Iasi, Romania
Molecular identification of nitro-tyrosine modification in human eosinophil proteins by proteolytic affinity extraction - mass spectrometry (PROFINEX)

11.45 – 12.15 **Suresh Jivan Gadher,** Thermo Fisher Scientific, Carlsbad, USA.
Synergistic success of proteo - genomics in interrogating exotic biological fluids using a novel high sensitivity Immunoassay

12.15 – 12.35 **Matt Kennedy**, Waters HRMS Business Development Manager, Wilmslow, United Kingdom
The Next Generation of IMS Research Platform

12.35 – 13.45 **Lunch**

Session 6: 13.45 – 15.10

Co-Chairs: Juan Jivan Calvete, Madalina Opperman

13.45 – 14.25 **Theo Marten Luider**, Erasmus University Medical Center, Rotterdam, Holland
Identification of Antibodies by integration of mass spectrometry and DNA sequencing

14.25 – 14.40 **Helena Kupcova Skalnikova,** Institute of Animal Physiology and Genetics, Czech Academy of Sciences, Libechov, Czech Republic
Cytokine profiling in melanoma patient serum for monitoring of cancer progression

14.40 – 14.55 **Cristiana Tanase**, National Institute of Pathology "Victor Babes", Bucharest, Romania
Proteomic approaches for the evaluation of natural products in cancer prevention and therapy

14.55 – 15.10 **Martina Macht**, Bruker Daltonik GmbH, Bremen, Germany
Unleashing the power of QTOF technology for proteomics with TIMS and PASEF

15.10 – 15.40 **Coffee break and poster session**

Session 7: 15.40 – 17.15

Co-Chairs: Goran Mitulović, Manuela Calin

15.40 – 16.10 **László Drahos**, Research Centre for Natural Sciences, Hungarian Academy of Sciences, Budapest, Hungary
Selection of Collision Energies in Tandem Mass Spectrometry Based Proteomics

16.10 – 16.25 **Tom Dennison**, Malvern Panalytical, UK
Characterising Extracellular Vesicles with Nanoparticle Tracking Analysis

16.25 – 16.45 **Manuela Calin,** ICBP-NS, Bucharest, Romania
Targeted nanocarriers to ameliorate vascular inflammation

16.45 – 17.00 **Tanja Panić-Janković**, Medical University of Vienna, Vienna, Austria
Background Proteins in Human Chorionic Gonadotropin Pharmaceutical Formulations of Different Origin

17.00 – 17.15 **Viorel Iulian Suica,** ICBP-NS**,** Bucharest, Romania
Proteomic alterations induced by poly (2-ethyl butyl cyanoacrylate) nanoparticles

17.15 – 17.45 **CEEPC Board Meeting**

19.00 – 21.00 **Conference dinner (***Location: Ramada Bucharest Parc, 3-5 Poligrafiei Ave, 1st District, Bucharest, Romania 013704 Bucharest)*

Friday, October 26, 2018

Location: ICBP-NS, 8 B.P. Hasdeu Street

Session 8: 09.00 – 10.30

Co-Chairs: Jiri Petrak, Cornelia Bala

09.00 – 09.40 **Fernando J. Corrales,** National Centre for Biotechnolgy (CSIC), Madrid, Spain

One carbon metabolism and protein methylation. Implications in liver diseases

09.40 – 09.55 **Goran Mitulović,** Medical University of Vienna, Vienna, Austria

Micro-Pillar-Arrayed Column (µPAC) for Proteomics

09.55 – 10.10 **Cornelia Bala,** Iuliu Hatieganu University of Medicine and Pharmacy, Cluj-Napoca, Romania

Branched-chain and aromatic amino acids in diabetes - application of metabolomics in clinical settings

10.10 – 10.30 **Filip Supljika,** Application Specialist of Malvern Panalytical, Zagreb, Croatia

Studying Proteomics with Microcalorimetry

10.30 – 11.00 **Coffee break and poster session**

Session 9: 11.00 – 12.30

Co-Chairs: Piotr Widlak, Mirela Sarbu

11.00 – 11.40 **Cristina Furdui**, Center for Redox Research in Biology and Medicine, Wake Forest School of Medicine, Winston-Salem, USA

Integrating Redox Effects in Analysis of Biological Systems

11.40 – 11.55 **Mirela Sarbu**, National Institute for Research and Development in Electrochemistry and Condensed Matter, Timisoara, Romania

Introducing ion mobility tandem mass spectrometry in glycoproteomics and glycolipidomics of human biopsies

11.55 – 12.10 **Xaveer Van Ostade**, University of Antwerp, Wilrijk, Belgium

Characterizing the molecular mechanism of the multifunctional antitumor compound withaferin A in a multiple myeloma model

12.10 – 12.30 **Adrian Manea, ICBP-NS,** Bucharest, Romania
Histone deacetylases as potential therapeutic targets in atherosclerosis

12.30– 13.45 **Lunch**

Session 10: 13.45 – 15.25
Co-Chairs: Cristina Furdui, Adrian Manea

13.45 – 14.25 **Juan Jose Calvete**, Evolutionary and Translational Venomics Laboratory, CSIC, Valencia, Spain
From low-resolution toxin-pattern recognition to toxin-resolved venom proteomes: New approaches in evolutionary and translational venomics

14.25 – 14.55 **Piotr Widlak**, Maria Sklodowska-Curie Institute - Oncology Center, Gliwice Branch, Gliwice, Poland
Discrimination of oral cancer from normal oral mucosa by mass spectrometry imaging of proteins and lipids

14.55 – 15.10 **Katarina Davalieva**, Research Centre for Genetic Engineering and Biotechnology "Georgi D Efremov", Macedonian Academy of Sciences and Arts, Skopje, Republic of Macedonia
Application of tissue proteomics for understanding the prostate cancer initiation and progression

15.10 – 15.25 **Oleksii Ivanov** – Promega GmbH, Mannheim, Germany
The Bioluminescent HiBiT Technology for CRISPR – Mediated Gene Tagging

15.25 – 16.00 **Coffee break and poster session**

Session 11: 16.00 – 16.30
Co-Chairs: László Drahos, Viorel Iulian Suica

16.00 – 16.15 **Suresh Jivan Gadher**, Thermo Fisher Scientific, Carlsbad, USA.
Personalized cancer immunotherapy using GM-CSF to activate the body defense

16.15 – 16.30 **Raluca Boteanu**, ICBP-NS, Bucharest, Romania
Proteomic and bioinformatic analyses of bone healing using titanium implant with bioactive targeted surface in a rat tibial defect model

16.30 – 17.00 **Closing Remarks**

List of Posters

Thursday, October 25, 2018

ThPo1 *Rebizak B., Mielczarek P., Bodzon-Kulakowska A.,* **Western Blotting – the devil is in the details**

ThPo2 *Skowronek A., Marczak L., Rutkowski T., Widlak P., Pietrowska M.,* **Profiling of serum metabolome of head and neck cancer patients undergoing radiotherapy**

ThPo3 *Zamfir A.D., Sarbu M., Vukelić Ž.,* **Analyses of glycolipid-peptide and glycolipid-protein interactions by chip-based mass spectrometry**

ThPo4 *Bazylak G., Pan T.L., Wang P.W., Leu Y.L., Wu T.H., Wu Y.C.,* **Proteomics discloses effect of saffron stigmata ethanolic extract on restoring viability in HepG2 cells under VCP gene silencing**

ThPo5 *Ionescu A.E., Menţel M., Leney A.C., Munteanu C.V.A., Heck A.J., Szedlacsek S.E.,* **EYA3 tyrosine phosphorylation by Src kinase from mass spectrometry to implications in proliferation**

ThPo6 *Marinescu G.C., Popescu R.G., Dinischiotu A.,* **Nicotinamide mononucleotide (NMN) effects on mitochondrial OXPHOS protein expression**

ThPo7 *Chiriţoiu G.N., Munteanu C.V.A., Jandus C., Ghenea S., Romero P., Petrescu S.M.,* **Mass spectrometry and T cell analysis reveals that N-glycosylation can impact antigen presentation in melanoma**

ThPo8 *Bielińska I., Sikora M., Jakubowski H.,* **Methionine-induced hyperhomocysteinemia causes changes in the mouse kidney proteome associated with blood coagulation**

ThPo9 *Jankovska E, Vit O., Svitek M., Holada K., Petrak J.,* **Two strategies for processing of human cerebrospinal fluid prior LC-MS/MS**

ThPo10 *Ner-Kluza J., Milewska A., Dąbrowska A., Mielczarek P., Pyrć K., Suder P.*, **iTRAQ based proteomic analysis of Zika virus infection based on 293T cells**

ThPo11 *Piechura K., Zingale G.A., Mielczarek P., Silberring J.,* **Activity of neuropeptides converting enzymes**

ThPo12 Smirnova L., Dmitrieva E., Seregin A., Letova A., Semke A., Zgoda V., **Search of peripheral markers associated with pathogenesis of schizophrenia**

ThPo13 *Gawin M., Wojakowska A., Pietrowska M., Marczak Ł., Chekan M., Widłak P.,* **Proteome profiles of different types of thyroid cancers**

ThPo14 *Abramowicz A., Marczak Ł., Smolarz M., Gładysińska M., Widłak P., Pietrowska M.,* **Ionizing radiation affects the composition of proteome of exosomes released by head and neck carcinoma in vitro**

ThPo15 *Behounek M., Chmel M., Havlenova T., Melenovsky V., Cervenka L., Petrak J.,* **Molecular changes in kidneys during chronic heart failure**

ThPo16 *Ner-Kluza J., Kosowicz K., Milewska A., Dąbrowska A., Pyrć K.A., Suder P.,* **ZIKA virus NS3 protease: substrate specificity investigations**

ThPo17 *Mielczarek P., Rozmus K., Silberring J.,* **Simulation of phase II metabolism to study interactions of metabolites with proteins**

ThPo18 *Pralea I.E, Buse M., Zimța A., Morar-Bolba G., Berindan-Neagoe I., Iuga C.A.,* **Protein Extraction from Formalin-Fixed Paraffin-Embedded Tissue. A shotgun Proteomics application**

ThPo19 *Smoluch M., Mielczarek P., Kotlinska J.H., Silberring J.,* ***In vivo*** **determination of the CYP2E1 expression in rat hepatic microsomes after drug administration**

ThPo20 Sikora M., Marczak Ł., Perła-Kajan J., Jakubowski H., **Sex affects homocysteine modification at lysine residue 212 of albumin in mice**

ThPo21 *Kiprijanovska S., Stavridis S., Stankov O., Komina S., Petrusevska G., Davalieva K.,* **Potential urine biomarkers for prostate cancer identified by label-free nanoLC-MS/MS**

ThPo22 Valekova I., Jarkovska K., Kotrcova E., Juhas S., Motlik J., Bucci J., Gadher S.J., Kovarova H., **Revelation of the IFNα, IL-10, IL-8 and IL-1β as promising biomarkers reflecting immuno-pathological mechanisms in porcine Huntington's disease model**

Friday, October 26, 2018

FrPo1 *Antolak A., Bodzon-Kulakowska A., Marszalek-Grabska M., Gibula-Bruzda E., Kotlinska J.H., Suder P.,* **Ethanol-induced alterations in ubiquitin-proteasome system**

FrPo2 *Albulescu R., Necula L.G., Neagu A.I., Dima S., Popescu I., Tanase C.,* **Evaluation of circulating angiogenic factors in hepatocellular carcinoma by proteomic technology multiplex array**

FrPo3 *Tofan V., Costache A., Ţucureanu C., Onu A.,* **Expression and purification of stable uniform N^{15} labeled Shiga-like toxin 2 subunit B with application in mass spectrometry-mediated detection of hemolytic-uremic syndrome causing bacteria**

FrPo4 Popa M.A., Mihai M.C., Constantin A., Şuică V., Costache R., Antohe F., Dubey R.K., Simionescu M., **Human mesenchymal stem cells migration proteins are upregulated by dihydrotestosterone treatment**

FrPo5 *Constantin A., Nemecz M., Dumitrescu M., Filippi A., Alexandru N., Smeu B., Petcu L., Georgescu A., Tanko G., C. Copaescu, Simionescu M.,* **Improved metabolic status in obese type 2 diabetic patients treated by sleeve gastrectomy is associated with increased circulating microRNA-126**

FrPo6 *Tanko G., Constantin A., Dumitrescu M., Nemecz M., Picu A., Smeu B., Guja C., Alexandru N., Georgescu A., Simionescu M.,* **Sera from obese type 2 diabetes patients undergoing metabolic surgery instead of conventional therapy exert beneficial effects on beta cell survival and function**

FrPo7 *Filippi A., Alexandru N., Voicu G., Constantinescu C.A., Rebleanu D., Fenyo M., Simionescu D., Simionescu A., Manduteanu I., Georgescu A.,* **Evaluation of the early and progressive changes in plasma, hemodynamic and cardiac parameters in an animal model of atherosclerosis-associated diabetes mellitus,**

FrPo8 *Butoi E., Cecoltan S., Ciortan L., Macarie R.D., Tucureanu M.M., Vadana M., Droc I., Simionescu A., Manduteanu I.,* **3D model to study human aortic valve disease**

FrPo9 *Iordache F., Alexandru D., Georgescu A., Airini R., Amuzescu B., Savu L., Maniu H.,* **Characterization of senescent versus early passages human amniotic fluid stem cells**

FrPo10 *Nemecz M. Tanko G., Constantin A., Dumitrescu M., Alexandru N., Fillipi A., Simionescu M., Georgescu A.,* **The mechanisms underlying protective effects of oleic acid against palmitic acid on pancreatic beta cell function**

FrPo11 *Niculescu L.S., Simionescu N., Fuior E.V., Stancu C.S., Carnuta M.G., Dulceanu M.D., Raileanu M., Dragan E., Sima A.V.,* **Inhibition of miR-486 and miR-92a decreases liver and plasma cholesterol levels by modulating lipid-related genes in hyperlipidemic hamsters**

FrPo12 *Toma L., Raileanu M., Deleanu M., Stancu C.S., Sima A.V.,* ***N*ovel molecular mechanisms by which ginger extract reduces the inflammatory stress in TNFα – activated human endothelial cells; decrease of Ninjurin-1, TNFR1 and NADPH oxidase subunits expression**

FrPo13 *Trusca V.G., Dumitrescu M., Fenyo I.M., Tudorache I.F., Gafencu A.V.,* **Bisphenol A down-regulates apolipoprotein A1 expression and exerts pro-atherogenic effects**

FrPo14 *Uyy E., Suica V.I, Boteanu R.M., Ivan L., Antohe F., Simionescu M.,* **Mass Spectrometry evidence for modified protein composition of pulmonary lipid rafts in experimental diabetes**

FrPo15 *Rosca A.M., Pruna V., Tutuianu R., Neagu T.P., Lascar I., Simionescu M., Titorencu I.,* **Dermal Fibroblasts as new players in regenerative therapy**

FrPo16 *Ivan L., Uyy E., Boteanu R.M., Suica V.I., Coman C., Berg S., Hansen R., Antohe F.,* **Exploration of mechanisms leading to plaque instability in a rabbit atherosclerotic model - preliminary data**

FrPo17 *Rebleanu D., Constantinescu C.A., Voicu G., Deleanu M., Gaidau C., Ignat M., Petica A., Calin M.,* **The effects of photocatalytic silver (Ag)-titanium dioxide (TiO2) nanoparticles on human lung epithelial cells**

FrPo18 *Constantinescu C.A., Fuior E.V., Rebleanu D., Voicu G., Deleanu M., Tucureanu M., Butoi E., Manduteanu I., Escriou V., Simionescu M., Calin M.,* **Downregulation of the receptor for advanced glycation end products (RAGE) in the aorta of APOE-deficient mice using P-selectin targeted RAGE-shRNA lipoplexes**

FrPo19 *Voicu G., Constantinescu C.A., Rebleanu D., Fuior E.V., Deleanu M., Tucureanu M., Butoi E., Manduteanu I., Escriou V., Simionescu M., Calin M.,* **P-selectin targeted lipoplexes carrying a shRNA plasmid to silence receptor for advanced glycation end products decrease monocyte adhesion to activated endothelial cells**

FrPo20 *Fuior E.V., Voicu G., Deleanu M., Rebleanu D., Constantinescu C.A., Safciuc F., Simionescu M., Calin M.,* **VCAM-1 targeted naringenin-loaded lipid nanoemulsions reduce monocyte adhesion to activated endothelial cells**

FrPo21 *Dumitrescu M., Trusca V., Gafencu A., Burlacu A., Simionescu M., Askenasy N.,* **Adenoviral transduction of hepatocytes to induce Fas ligand expression**

FrPo22 *Vlad M.L., Lazar A.G., Manea S.A., Raicu M., Muresian H., Simionescu M., Manea A.***, Up-regulated NADPH oxidase-derived reactive oxygen species induce macrophage polarization towards M1 phenotype in vitro; potential implication in human atherosclerosis**

GENERAL INFORMATION

Conference venue

Institute of Cellular Biology and Pathology, "Nicolae Simionescu" (ICBP-NS), *8 B.P. Hasdeu Street, PO Box: 35-14, 050568, Bucharest, Romania*
The Romanian Academy, *125 Calea Victoriei, Bucharest*

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Iuliana Bratu
Zoe Florica Paltiniseanu
Ana-Maria Rosca
Irina Titorencu

Video Projections

Mirel Popa
Florin Iordache
Each speaker is kindly asked to load their presentations 30 min before the lecture

Posters

ICBP-NS, 8 B.P. Hasdeu Street
The authors are kindly asked to be present at posters between
10:30 – 11:00 and 15:10 – 15:40 (Thursday, october 25) and
10:30 – 11:00 and 15:25 – 16:00 (Friday, october 26)

Lunches

ICBP-NS, 8 B.P. Hasdeu Street

Social Program

Welcome and get-together party: *House of Scientists, 9 Lahovary Plaza, Bucharest*)
Conference dinner: *Ramada Bucharest Parc, 3-5 Poligrafiei Ave, 1st District, Bucharest, Romania*

Proteomics is a systems approach for the global study of protein expression changes. It can provide information on gene function, disease processes and mechanisms of drug action at several stages in the drug discovery pipeline and pave the way for improved and faster implementation of drug discovery strategies. Since proteomics encompasses a number of multi disciplines, it has a major role to play in our understanding of biological processes and diverse diseases.

The greatest promise for the detection and treatment of diseases lies in the deep understanding of molecular basis for disease initiation, progression and efficacious treatment based on the discovery of unique biomarkers. Although progress in genomics has been rapid during the past few years, it only provides us with a glimpse of what may occur as dictated by the genetic code. In reality, we still need to measure what is happening in a patient in real time, which means finding tell-tale proteins that provide insight into the biological processes of disease development. This is because genes are only the "recipes" of the cell, while the proteins encoded by the genes are ultimately the functional players that drive both normal and disease physiology.