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 Kovařová 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 -

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### NATIONAL VILLAGE MUSEUM “Dimitrie Gusti”
- at a glance -

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### 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

- Günter Allmaier (Vienna, Austria)
- Felicia Antohe (Bucharest, Romania)
- Katarina Davalieva (Skopje, Republic of Macedonia)
- László Drahos (Budapest, Hungary)
- Suresh Jivan Gadher (Frederick, USA)
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- Aleš Svatoš (Jena, Germany)
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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 *Brîndușa 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

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)*
Session 8: 09.00 – 10.30  
Co-Chairs: Jiri Petrak, Cornelia Bala

09.00 – 09.40 **Fernando J. Corrales**, National Centre for Biotechnology (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., Vukelic Z., Analyses of glycolipid-peptide and glycolipid-protein interactions by chip-based mass spectrometry


ThPo5  Ionescu A.E., Mentei 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., Nicotinamide mononucleotide (NMN) effects on mitochondrial OXPHOS protein expression

ThPo7  Chirițoiu 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., Widlak P., Proteome profiles of different types of thyroid cancers

ThPo14  Abramowicz A., Marczak Ł., Smolarz M., Gładysińska M., Widlak 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


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

ThPo20  Sikora M., Marczak Ł., Perla-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., Petruševska 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., Tucureanu C., Onu A.,  
Expression and purification of stable uniform N¹5 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., Șucă V., Costache R., Antohe F., Dubey R.K., Simionescu M.,  
Human mesenchymal stem cells migration proteins are upregulated by dihydrotestosterone treatment

Improved metabolic status in obese type 2 diabetic patients treated by sleeve gastrectomy is associated with increased circulating microRNA-126

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., Gecofian S., Ciortan L., Macarie R.D., Tucureanu M.M., Vadana M., Droci 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., Filippi 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.,  
Novel 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

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**


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**

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

Phone: (+4021) 319 45 18
Fax: (+4021) 319 45 19

E-mail: viorel.suica@icbp.ro
Website: https://ceepc2018.wixsite.com/bucharest

Reception desk
Luminita Ivan
Elena Uyy
Raluca Maria Boteanu
Viorel Iulian Suica

Logistical Support
Maria Tolbaru
Elena Balaceanu
Iuliana Bratu
Zoe Florica Paltiniseanu
Ana-Maria Rosca
Irina Titoreanu

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

Cheers
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.