

HUPO 2007 Annual World Congress, Seoul 2007

Scientific Program

Pre-Congress Program

The Pre-Congress Activities will take place on Saturday October 6 and Sunday October 7, 2007.

- HUPO Initiative Meetings - Saturday October 6 and Sunday October 7 - Open to all congress registrants (Pre-registration will be strongly recommended. HUPO 2007 committee will send e-mail for registration to all paid congress registrants)
- Educational Sessions* - Saturday October 6
- HUPO Clinical Day*, to facilitate the integration of clinical-based applications with those investigations in technology development. - Sunday October 7

* **Must register to attend**

Saturday, October 6, 2007

HUPO Initiatives

Protein Standard Initiative *(Last Updated on Aug 8, 2007)*

Saturday, Oct 6, 08:00-10:30, Jangbogo Hall 335

Protein Standards Workshop – discussions on the development and application of protein standard mixtures for technology development and applications. Current developments will be discussed.

Introduction John Yates

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HUPO 6th Annual World Congress, Seoul 2007
Scientific Program

8:00 - 8:30	Eugene Kolker
8:30 – 9:00	Henry Duewel, Sigma-Aldrich
9:00 – 9:30	Tom Beardslee, Invitrogen
9:30 – 10:00	ABRF person (To Be Named)
10:00 – 10:30	Alex Bell

Human Liver Proteome Project (*Last Updated on Aug 31, 2007*)

Saturday, Oct 6, 10:40-13:10, Jangbogo Hall 335

Co-Chairs: Fuche He, Jose Mato

10:40-11:50	Reports on the progress related to the HLPP Speakers: John Bergeron, Fuchu He, Jose Mato, Young-Ki Paik, Xiaoming Yang, Victor Zgoda, Xuemin Zhang, and Bill Jordan
11:50-13:10	Panel Discussion Technology strategies Young-Ki Paik & Xiaohong Qian lead the discussion Data control, integration and comparison Rolf Apweiler & Martin McIntosh lead the discussion Key Proteins validation John Bergeron & Bill Jordan lead the discussion The strategy of the proteomic analysis of Liver diseases Samir Hanash & Jose Mato lead the discussion
	Participants Rolf Apweiler, Alexander Archakov, John Bergeron, Pierre-Alain Binz, Félix Elortza, Samir Hanash, Bill Jordan, Fuchu He, Wei He, Chantal Housset, Siqi Liu, Jose Mato, Rune Matthiesen, Martin McIntosh, Alex Merrick, Young-Ki Paik, Terence Poon, Xiaohong Qian, Qihong Sun, Pengyuan Yang, Xiaoming Yang, Victor Zgoda, Xuemin Zhang, Yangjun Zhang, Yunping Zhu, Wantao Ying, other young scientists and students) (Other participants to be confirmed)

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HUPO 6th Annual World Congress, Seoul 2007
Scientific Program

HUPO-Cardiovascular Initiative (*Last Updated on September 10, 2007*)

Saturday, Oct 6, 10:40-13:10, Jangbogo Hall 333

Co-Chairs: Mike Dunn and Mario Hugo Genero

Lectures will be moderated by Mario Hugo Genero

10:40-11:10 "Technology Challenges and Solutions for CVI Projects"
Robert J Cotter; Johns Hopkins University

11:10-11:40 "Tyrosine Signaling Proteome in Cardiovascular Diseases".
Thomas Vondriska, UCLA School of Medicine

11:40-12:10 "Biomarkers for Cardiovascular Diseases"
Jenny Van Eyk and Simon Sheng, Johns Hopkins University

12:10-12:40 "Cardiovascular Gene Ontology Annotation Initiative"
Mike Dunn, University of Dublin

Discussions will be chaired by Mike Dunn

12:40-13:10 "General Discussions"

HUPO-Proteomics Standards Initiative (*Last Updated on July 11, 2007*)

Saturday, Oct 6, 14:00-16:30, Jangbogo Hall 335

The HUPO Proteomics Standards Initiative (PSI) defines community standards for data representation in proteomics to facilitate data comparison, exchange and verification.

14:00 Proteomics Standards Initiative: Five Years Anniversary – Henning Hermjakob, EBI

14:20 Molecular Interactions – Sandra Orchard, EBI

14:40 Mass spectrometry – Lennart Martens, EBI

15:00 Mass spectrometry informatics – Pierre-Alain Binz, SIB

15:20 Panel discussion

- PSI standards and journal guidelines = available data?

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- Proteomics Standards in Asia
- Open Discussion

Human Kidney & Urine Proteome Project (Last Updated on Aug 14, 2007)

Saturday, Oct 6, 14:00-16:00, Jangbogo Hall 333

“Towards Standards for Urine Proteomics”

Co-Chairs: Mark A Knepper (NHLBI, NIH, Bethesda, MD, USA) and Robyn G Langham St
(Department of Medicine, Vincent's Hospital, University of Melbourne, Australia),
Saturday, Oct 6, 14:00-16:00, Jangbo Hall 333

14:00-14:05 **Introduction**

Tadashi Yamamoto, Chair of HKUPP, Niigata University

14:05-14:20 **Urinary proteomics of high-molecular-mass proteins by 2-DE with agarose gels in the first dimension (Agarose 2-DE) and LC-MS/MS**

Hiroshi Okusa¹, Yoshio Koderu^{2,3}, Ryojiro Kondo², Kazumasa Matsumoto¹,
Masatsugu Iwamura¹ Masamichi Oh-Ishi², Shiro Baba¹, and Tadakazu Maeda^{2,3}
¹ Department of Urology, Kitasato University School of Medicine, ² Department of
Physics, Kitasato University School of Science, and ³Center for Disease
Proteomics, Kitasato University School of Science, Sagamihara, Japan

14:20-14:35 **The human urinary proteome contains more than 1500 proteins, including a large proportion of membrane proteins**

Jun Adachi^{1,2}, Nagaraj, Nagarjuna¹
¹Department of Proteomics and Signal Transduction, Max-Planck Institute for
Biochemistry, Germany, and ²Current address: Graduate School of Global
Environmental Studies, Kyoto University, Japan

14:35-14:50 **An attempt to understand kidney functions by comparing serum and urine proteomes**

Lulu Jia, Ling Zhang, Chen Shao, Eli Song, Wei Sun and Youhe Gao
Department of Pathophysiology, Proteomics Research Center, Institute of Basic
Medical Sciences, Peking Union Medical College, Beijing, China

14:50-15:05 **Identification of a processed ubiquitin form as differentially excreted protein in diabetic nephropathy patients by urinary proteomics**

Hassan Dihazi, and Gerhard A. Müller
Nephrology & Rheumatology, Georg-August University Goettingen, Goettingen,
Germany

15:05-15:20 **Two-dimensional gel electrophoresis-based proteome analysis of normal human urine proteome: optimization of urine sample handling and quantitative difference between healthy children and adults**

Yutaka Yoshida¹, Yoshimi Nagasaka¹, Izumi Taguchi¹, Masahito Miyamoto¹, Bo

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HUPO 6th Annual World Congress, Seoul 2007
Scientific Program

Xu¹, Ying Zhang¹, Kenji Miyazaki², Akira Tsugita², Eishin Yaoita¹, Hidehiko Fujinaka^{1,3}, Tadashi Yamamoto¹

¹Department of Structural Pathology, Institute of Nephrology, Niigata University, Niigata, ²Proteomics Research Center, Fundamental and Environmental Res. Labs. NEC Corp., Tsukuba, and ³Institute for Clinical Research, Niigata National Hospital, Kashiwazaki, Japan.

15:20-15:45 **Issues of concern in urinary proteomics and initial recommendations**
Visith Thongboonkerd
Medical Molecular Biology Unit, Office for Research and Development, Faculty of Medicine Siriraj Hospital, Maida University, Bangkok, Thailand.

15:45-16:00 **Discussion**

Human Glyco-Proteomics Initiative (*Last Updated on Aug 24, 2007*)

Saturday, Oct 6, 16:30-19:00, Jangbogo Hall 335

16:30-16:45 Naoyuki Taniguchi, HGPI Chair
“Introduction – Pilot study of O-glycan analysis”

16:45-17:00 Nicolle Packer, Macquarie University, Australia
“White Paper Report from Focus Group at the NIH Workshop Frontiers in Glycomics and Glycobiology”

17:00-17:15 Stuart Haslam, Imperial College London, UK
“Mass spectrometric strategies for glycomics and glycoproteomics”

17:15-17:30 Kazuaki Kakehi, Kinki University, Japan
“An automatic apparatus for releasing O-glycans”

17:30-17:45 Yoshiyuki Hiki, Fujita Health University, Japan
“Structural analyses of O-glycans in IgA1 hinge region in IgA nephropathy”

17:45-18:00 Yoshinao Wada, Osaka Pref. Maternal and Children Institute, Japan
“Preliminary report of the HGPI O-glycoproteomics pilot study”

18:00-18:15 Catherine E. Costello, Boston University School of Medicine, US
“Optimized MS detection of O-GlcNAc and other O-linked glycans”

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5/31 Pages

HUPO 6th Annual World Congress, Seoul 2007
Scientific Program

18:15-18:30 Jin Won Cho, Yonsei University, Korea
"Functional role of O-glycNAc modification on tumor suppressor p53"

18:30-18:45 Jeong Heon Ko, Korea Research Institute of Bioscience and Biotechnology, Korea
"Aberrant glycosylation on TIMP-1 by N-acetylglucosaminyltransferase V reinforces the invasive/metastatic potential of colon cancer cells"

18:45-19:00 Yukinari Kato, National Institute of Advanced Industrial Science and Technology (AIST), Japan
"Functional glycosylation of human podoplanin: glycan structure of platelet aggregation-inducing factor"

Proteome Biology of Stem Cells (Last Updated on Aug 16, 2007)

Saturday, Oct 6, 16:30-19:00, Jangbogo Hall 333

'Proteome Biology of Stem Cells' is the latest HUPO initiative, launched in the spring of this year, and brings together scientists from both proteomic and stem cell communities. By integrating these technically demanding areas the initiative aims to further our understanding of biological mechanisms fundamental to stem cell behaviour, using proteomic techniques. This workshop will give an update on the progress that has been made in shaping this initiative. In the panel discussion future work will be discussed, any input is welcome from researchers interested in this field.

Chairs: Jeroen Krijgsveld and Albert Heck

Agenda:

The following speakers have confirmed to present their work:

- 16.30 Welcome and introduction (Jeroen Krijgsveld, Albert Heck)
- 16.45 Dong-Wook Kim (Korean Stem Cell Research Center)
"Proteomic Analysis of Human ESCs and MSCs during Differentiation"
- 17.10 Bong Hee Lee (Gachon University Gil Medical Center, Korea)
"Sampling strategy for stem cell research: total protein per cell"
- 17.35 Thomas Lufkin (Genome Institute of Singapore)
"Stem Cell & Developmental Biology Proteomics"
- 18.00 Panel discussion and future directions

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HUPO 6th Annual World Congress, Seoul 2007
Scientific Program

Education Day Session *(Last Updated on July 11, 2007)*

Saturday, Oct 6, 2007, 09:00-18:45, Jangbogo Hall 336

Chair: Angelika Görg

ED-1	Welcome Address
09:00-09:05	Angelika Görg; Chair, HUPO Education & Training Committee (Technical University of Munich, Germany)
ED-2	Overview of Proteomic Technologies
09:05-10:05	Michael Dunn (University College Dublin, Ireland)
ED-3	2-D Electrophoresis
10:05-11:00	Angelika Görg (Technical University of Munich, Germany)
ED-4	MudPIT
11:00-12:00	Mike MacCoss (University of Washington, USA)
12:00-13:00	Lunch
ED-5	Antibodies
13:00-14:00	Matthias Uhlen (Royal Institute of Technology, Sweden)
ED-6	Protein Identification by MS and MS/MS
14:00-15:00	Peter Roepstorff and Tine Thingholm (University of Southern Denmark, Denmark)
ED-7	PTM-Proteomics
15:00-16:00	Ole N. Jensen (University of Southern Denmark, Denmark)
16:00-16:30	Coffee Break
ED-8	Protein Identification: Search Engines and Strategies
16:30-17:15	Pierre-Alain Binz (Swiss Institute of Bioinformatics, Geneva, Switzerland)
ED-9	Proteome Annotation: Resources and Tools
17:15-18:00	Sandra Orchard (European Bioinformatics Institute, Hinxton, UK)
ED-10	Results Dissemination: Guidelines, Formats, Databases
18:00-18:45	Henning Hermjakob (European Bioinformatics Institute, Hinxton, UK)

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Sunday, October 7, 2007

HUPO Initiatives

Human Antibody Initiative (Last Updated on July 11, 2007)

Sunday, Oct 7, 08:00-10:30, Jangbogo Hall 335

Fourth annual HUPO Antibody Initiative (HAI) workshop

The workshop will focus on the progress and time plans for the effort to create a database portal for antibodies to the human proteins and to compile a community-based virtual resource (catalogue) of quality assured antibodies available to the scientific community. A pilot database portal will be presented and the format and deliverables for the future will be discussed. The workshop also aims to allow input on content requirements and rules for inclusion and exclusion of data as well as the parameters for submissions of data by academic and commercial antibody providers. The participation in the workshop is free of charge but all participants should register by email before October 1 to Sylvie Ouellette (email: sylvie.ouellette@mcgill.ca).

Co-Chairs: Mathias Uhlen, Michael Snyder, Peter Hudson

Agenda

8:00 Welcome and introduction (Mathias Uhlen, Michael Snyder, Peter Hudson)

8:20 Status EU ProteomeBinders (Michael Taussig, UK)

8:30 NCI affinity reagents and NIH road map (Adam Clarke, US)

8:40 Proteome standards initiative - PSI (Henning Hermjakob, UK)

8:50 Presentation of a pilot database (Erik Bjorling, Sweden)

9:00 Panel discussion

* Database format

* Database content

* Submission rules and criteria

* Validation criteria (choose of applications)

* Scoring of antibodies (rules)

* Time plans and deliverables

Human Brain Proteome Project (Last Updated on September 11, 2007)

Sunday, Oct 7, 16:30-19:00, Jangbogo Hall 335

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HUPO 6th Annual World Congress, Seoul 2007
Scientific Program

16:30-16:40	Welcome address Helmut E. Meyer (MPC, Bochum, Germany) & Young Mok Park (KBSI, Daejeon, Korea)
16:40 – 17:00	Introduction Michael Hamacher (MPC, Bochum, Germany)
17:00 – 17:20	A β Peptides as Diagnostic Biomarker for Huntington Disease Henkel (Univ. of Erlangen, Erlangen, Germany)
17:20 – 17:40	Phenotypic feature of Korean glioblastomas Do-Hyun Nam (Samsung Medical Center, Seoul, Korea)
17:40 – 17:55	Talk from abstracts, TBA
17:55 - 18:05	Break
18:05 - 18:25	Proteomics Data Collection & Asia Data Collection Center Christian Stephan (MPC, Bochum, Germany)
18:25 - 18:50	Molecular Genetic Imaging of Brain with a PET-MRI Fusion, Imaging System using HRRT-PET and 7.0T-MRI Zang-Hee Cho (Gachon University of Medicine and Science, Incheon, Korea)
18:50 - 19:00	Discussion & Final Remark All

Human Plasma Proteome Project *(Last Updated on August 14, 2007)*

Sunday, Oct 7, 20:00-22:00, Jangbogo Hall 335

The Pilot Phase of the HUPO Plasma Proteome Project culminated in a special issue of Proteomics August 2005; 5: 3226-3519 and a Wiley book (2006), "Exploring the Human Plasma Proteome". Full datasets are openly available at www.peptideatlas.org, www.ebi.ac.uk/PRIDE, and www.bioinformatics.umich.edu/hupo/ppp. HUPO Congress participants interested in the plasma proteome and the Plasma Proteome Project are encouraged to attend.

Co-Chairs: Young-Ki Paik, Ruedi Aebersold, and Gil Omenn

20:00-20:45	Panel on Advances in Technology Platforms and Analytical Strategies for Quantitation, Identification of PTMs, and Throughput Christie Hunter (USA), Denis Hochstrasser (Switzerland), Ole Jensen (Denmark), Parag Mallick (USA), Richard Smith (USA), Rong Zeng (China)
20:45-21:30	Panel on Informatics and Databases for the Plasma Proteome Ron Beavis (Canada), Henry Lam (USA), Lennart Martens (UK), Martin McIntosh (USA), Akhilesh Pandey (USA)
21:30-22:00	Panel on Plasma and Serum as Final Common Pathway for Biomarkers Emerging from Organ and Disease Proteome Initiatives

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HUPO 6th Annual World Congress, Seoul 2007
Scientific Program

	John Bergeron (Canada), moderator Fuchu He (China), Helmut E. Meyer (Germany), Peipei Ping (USA), Jan Schnitzer (USA), Richard Simpson (Australia), Tadashi Yamamoto (Japan)
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Clinical Day Session *(Last Updated on Aug 16, 2007)*

Sunday, October 7, 2007, 9:00 AM - 5:00 PM, Jangbogo Hall 336

Co-chairs: Sam Hanash & Choon-Sik Park

CL-1 09:00-10:30	Session 1: Biofluids Proteomics Chair: Sam Hanash (Fred Hutchinson Cancer Research Center, USA) Jangbogo Hall 336, Level 3, COEX
Introduction	by Sam Hanash Fred Hutchinson Cancer Research Center, USA
CL-1-1	by John Bergeron, Montreal, Canada Immunodepletion, 1-D gel, Q-TOF
CL-1-2	by Wiltfeng Jens, Erlangen, Germany +/- Immunodepletion, RPLC, Medium DIGE, MALDI-MS
CL-1-3	by Helmut Meyer, Bochum, Germany No depletion, Big DIGE, 2-D gel, MALDI-MS
CL-1-4	by Xiaohong Qian, Beijing, China Immunodepletion, Isotopic labeling + MudPIT, LTQ-FT
CL-1-5	by Young-Ki Paik, Seoul, South Korea Immunodepletion, iTRAQ labeling, MALDI-TOF/TOF
CL-2 10:30-12:00	Session 2: Application of Microarrays to Clinical Proteomics Chair: Choon-Sik Park (Soon Chun Hyang University Hospital, Korea) Jangbogo Hall 336, Level 3, COEX
CL-2-1 10:30-11:00	Identification of Differentially Expressed Proteins in Human Tissues Using Protein Microarrays Michael Snyder (Yale University, USA)
CL-2-2 11:00-11:30	A Lab-free Leukocyte Culture System (ILCS) combined with Multi-Analyte Profiling (MAP): The Ultimate Approach for the Functional Analysis of the Immune System within Patients suffering from Inflammatory Diseases Thomas Joos (University of Tuebingen, Germany)
CL-2-3 11:30-12:00	Recent Advances in Biomedical Applications of Protein Arrays Dolores Cahill (University College Dublin, Ireland)
CL-3 13:30-17:00	Session 3: Trials and Tribulations of Clinical Proteomics Chair: Sudhir Srivastava (National Cancer Institute, USA)

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HUPO 6th Annual World Congress, Seoul 2007
Scientific Program

	Jangbogo Hall 336, Level 3, COEX
CL-3A 13:30-15:00	Voyage from Proteomics to Cancer Diagnostics: Are We There Yet?
CL-3A-1	Clinical Proteomics: A Reality Check Sudhir Srivastava (National Cancer Institute, USA)
CL-3A-2	The Nuts and Bots of Clinical Proteomics Jacob Kagan (National Cancer Institute, USA) and Karin Rodland (Pacific Northwest National Laboratory, USA)
CL-3A-3	Have the International Programs in Clinical Proteomics Lost Directions? Sam Hanash (Fred Hutchinson Cancer Center, USA)
CL-3B 15:00-17:00	Panel Discussions: Reality Checks Moderator: Sudhir Srivastava Panelists: John Bergeron, Sam Hanash, Jacob Kagan, Henry Rodriguez, Karin Rodland, Michael Snyder and others
CL-3B-1	Forecast 1: The use of proteomic technologies, such as antigens, autoantibodies, metabolites, etc. will rapidly proliferate in all health care settings (cancer) in decade ahead. Have we come to the grip of standardizing captures reagents, tools and technologies for clinical application?
CL-3B-2	Forecast 2: Biomarker discovery and drug development process will be accelerated and fundamentally redesigned during the decade ahead in response to progress in the field of proteomics. Are we meeting the timelines?
CL-3B-3	Forecast 3: Between now and 2020, diagnostics and treatment will evolve to a higher stage of customization in which therapeutic selection will be precisely tailored to each patient's proteomic profiles. Are we making progress?

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Proteomics: From Technology Development to Biomarker Applications

Congress Scientific Program *(Updated on Aug 29, 2007)*

The Congress will officially start with the Keynote Lectures (Kurt Wuthrich) on Monday October 8, 2007.

The Congress Scientific Program will finish on the evening of Wednesday October 10, 2007.

You **must** register to attend. Download the full program of the congress [here](#).

* This congress scientific program is partially supported by Korea Research Foundation.

Monday, October 8, 2007

KL-1 Keynote Lecture-1:
09:00-09:35 NMR Spectroscopy as a Tool in Structural Genomics
 Kurt Wuthrich (ETZ Zurich, Switzerland)

 Chair: Rolf Apweiler (European Molecular Biology Laboratory-European
 Bioinformatics Institute, UK)

 Auditorium, Level 3, COEX

09:40-10:40 Plenary Session 1& 2

 Co-chairs:
 Catherine Fenselau (Univ. of Maryland, USA)
 Joong Myung Cho (CrystalGenomics, Inc., Korea)

 Auditorium, Level 3, COEX

** This session is partially supported by Yonsei Proteome Research Center / Biomedical Proteome Research Center.*

PL-1 Plenary Lecture-1*:
09:40-10:10 Fast Tracking Biomarker Discovery and Validation through Collaborative
 Efforts
 Sam Hanash (Fred Hutchinson Cancer Research Center, USA)

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HUPO 6th Annual World Congress, Seoul 2007
Scientific Program

PL-2 10:10-10:40	Plenary Lecture-2: A Global View of Structural Proteomics: Evolution of Protein Structures and Functions Sung-Hou Kim (Univ. of California, Berkeley, USA)
10:40-11:00	Coffee Breaks
11:00-13:00	Parallel Symposia Jangbogo Hall, Level 3, COEX
SY-1 11:00-13:00	Symposium 1: Biomarker Discovery using Mouse Model and Clinical Specimen Co-chairs: Sam Hanash (Fred Hutchinson Cancer Research Center, USA) Denis Hochstrasser (University Hospitals of Geneva, Switzerland) Jangbogo Hall 335, Level 3, COEX
SY-1-1 11:00-11:22 (22)	Proteomic Strategies to Discover Biomarkers for Colorectal Cancer Richard Simpson (Ludwig Institute for Cancer Research, Australia)
SY-1-2 11:22-11:44 (22)	Antibodies for Peptide Enrichment in Biomarker Qualification Assays Terry Pearson (University of Victoria, Canada)
SY-1-3 11:44-12:06 (22)	High-performance Proteomics as a Tool in Biomarker Discovery Helmut Meyer (Bochum University, Germany)
SY-1-4 12:06-12:28 (22)	Proteomics Strategies applied to the Cancer Epitheliome for Biomarker Discovery Sam Hanash (Fred Hutchinson Cancer Research Center, USA)
SY-1-5 12:28-12:44 (16)	[Oral Presentation] Novel Strategy Involving Peptide MRM-Based Assays and Chemistry for Targeted Quantitation of Biomarkers in Plasma Christie Hunter (Applied Biosystems, USA)
SY-1-6 12:44-13:00 (16)	[Oral Presentation] Accurate Mass LC/MS as Tool for Label Free Quantitative Proteome Studies Carsten Baessmann (Burker Daltonik GmbH, Germany)
SY-2 11:00-13:00	Symposium 2: Mass Spectrometry-1: Versatile Tool for Biomarker Discovery Co-chairs: Catherine Costello (Boston University, USA) Jongshin Yoo (Korea Basic Science Institute, Korea) Jangbogo Hall 336, Level 3, COEX <i>* This session is partially supported by Korea Society of Mass Spectrometry.</i>
SY-2-1	Evaluation of Residue-Specific Acid Cleavage in Proteomic Workflows

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HUPO 6th Annual World Congress, Seoul 2007
Scientific Program

- 11:00-11:22 (22) Catherine Fenselau (University of Maryland, USA)
- SY-2-2 11:22-11:44 (22) New Mass Spectrometry based Techniques for the Determination of Post-translational Modifications in Proteomics
Ole N. Jensen (Univ. of Southern Denmark, Denmark)
- SY-2-3 11:44-12:06 (22) Development and Application of Advanced Mass Spectrometry Techniques for Proteomics Research
Catherine Costello (Boston University, USA)
- SY-2-4 12:06-12:28 (22) Development and Application of MS-based Approaches for Protein Biomarker Discovery and Validation
Christoph Borchers (Univ. of Victoria, Canada)
- SY-2-5 12:28-12:44 (16) [Oral Presentation] Unique SRM(USRM) Mass Spectrometry to Unequivocally Identify and Quantify All The Proteins in a Proteome
Mark Molloy (Australian Proteome Analysis Facility, Australia)
- SY-2-6 12:44-13:00 (16) [Oral Presentation] High Sensitivity Quantitative Proteomics Using a Targeted, Multiple Reaction Monitoring (MRM) based Strategy and its Application to the Analysis of Virulence Factor Proteins of *Streptococcus Pyogenes*
Vinzenz Lange (ETH Zurich, Switzerland)

SY-3 11:00-13:00 Symposium 3:
Chemical Proteomics for Target Discovery

Co-chairs:
Matthew Bogyo (Stanford University, USA)
Hiroyuki Osada (Discovery Research Institute, RIKEN, Japan)

Jangbogo Hall 331, Level 3, COEX

- SY-3-1 11:00-11:25 (25) Application of Small Molecule Active Site Probes for Functional Proteomic Analysis of Proteases
Matthew Bogyo (Stanford University, USA)
- SY-3-2 11:25-11:50 (25) Systematic Exploration of the Interaction between Bioactive Compounds and their Target Proteins
Hiroyuki Osada (Discovery Research Institute, RIKEN, Japan)
- SY-3-3 11:50-12:15 (25) Analysis of Protein Kinase Regulation by Quantitative Chemical Proteomics
Henrik Daub (Max Planck Institute of Biochemistry, Germany)
- SY-3-4 12:15-12:40 (25) Identification and Validation of Target Proteins of Bioactive Small Molecule
HoJeong Kwon (Yonsei University, Korea)
- SY-3-5 12:40-13:00 (20) [Oral Presentation] Toward Identifying The Mechanism of Anti-PRION Activity of Quinacrine Using a Proteomics Approach
Chongsuk Ryou (University of Kentucky)

SY-4 11:00-13:00 Symposium 4:
Structural Proteomics for the Discovery of Protein Function

Co-chairs:
Raymond Stevens (Scripps Research Institute, USA)

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HUPO 6th Annual World Congress, Seoul 2007
Scientific Program

	Andrew Wang (Institute of Biological Chemistry, Taiwan)
	Jangbogo Hall 332, Level 3, COEX
SY-4-1 11:00-11:25 (25)	Structure for Proteomics Research Raymond Stevens (Scripps Research Institute, USA)
SY-4-2 11:25-11:50 (25)	The Systematic Development of Small Molecules as Bioprobes for Human Proteins Aled Edwards (University of Toronto, Canada)
SY-4-3 11:50-12:15 (25)	NMR-based Structural Proteomics: From Protein Structure To Function? Weontae Lee (Yonsei University, Korea)
SY-4-4 12:15-12:40 (25)	The Structural Organization and Dynamic Behavior of Multi-functional Signaling Complex Sunghoon Kim (Seoul National University, Korea)
SY-4-5 12:40-13:00 (20)	[Oral Presentation] Multiple Disulfide Bond Patterns Identified in Human Serum Albumin Yeou-Guang Tsay (National Yang-Ming University, Taiwan)
WE – 1 13:00-14:30	Workshop & Exhibition – I Jangbogo Hall & Convention Hall, Level 3, COEX
CW-ML1 13:10-14:20	Invitrogen (Elite Sponsor of HUPO Initiatives) Jangbogo Hall 331
CW-ML2 13:10-14:20	Brucker Daltonics (Premier Sponsor of HUPO 2007) Jangbogo Hall 332
CW-ML3 13:10-14:20	Dongil – Shimadzu (Elite Sponsor of HUPO 2007) Jangbogo Hall 333
14:30-16:30	Parallel Symposia Jangbogo Hall, Level 3, COEX
SY-5 14:30-16:30	Symposium 5: Role of PTM in Cellular Signaling and Disease Co-chairs: Richard Simpson (Ludwig Institute for Cancer Research, Australia) Visith Thongboonkerd (Mahidol University, Thailand)
	Jangbogo Hall 335, Level 3, COEX
SY-5-1 14:30-14:52 (22)	Quantitative Proteomics in the Study of Signaling Pathways: Renal Action of Vasopressin Mark Knepper (National Heart, Lung, and Blood Institute, National Institute of Health, USA)
SY-5-2 14:52-15:14 (22)	Post-translational Modifications of Proteins in Cellular Microparticles Martin Larsen (Odense University, Denmark)
SY-5-3 15:14-15:36 (22)	Identifying Signaling Targets in Melanoma by Functional Proteomics Natalie Ahn (University of Colorado, USA)

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HUPO 6th Annual World Congress, Seoul 2007
Scientific Program

- SY-5-4 Phosphoproteomics of Myocardial Ischemia / Reperfusion Injury
15:36-15:58 Stuart Cordwell (University of Sydney, Australia)
(22)
- SY-5-5 [Oral Presentation] Regulation of Proteasome by its Interacting Proteins
15:58-16:14 Jong Bok Yoon (Yonsei University, Korea)
(16)
- SY-5-6 [Oral Presentation] Zeptochip - Based Reverse Protein Arrays: Dynamic
16:14-16:30 Mapping of Signal Transduction Pathways at the Single Cell Level
(16) Markus Ehrat (Zeptosens - A Division of Bayer (Schweiz) AG,
Switzerland)

SY-6 Symposium 6:
14:30-16:30 Disease Proteomics-1: Detection Tool of Pathogenesis

Co-chairs:
Mathias Uhlen (Royal Institute of Technology (KTH), Sweden)
Kazuyuki Nakamura (Yamaguchi University School of Medicine, Japan)

Jangbogo Hall 336, Level 3, COEX

- SY-6-1 Biomarker Discovery: from the Sample to the Bedside
14:30-14:52 Denis Hochstrasser (University Hospitals of Geneva, Switzerland)
(22)
- SY-6-2 Systemic Deciphering of Human Liver Proteome
14:52-15:14 Fuchu He (Beijing Institute of Radiation Medicine, China)
(22)
- SY-6-3 Biomarker Identification and Validation: Resource Allocation and
15:14-15:36 Bottlenecks
(22) Myeong-Hee Yu (Korea Institute of Science and Technology, Korea)
- SY-6-4 Prefrontal Cortex Abnormalities in Schizophrenia and Bipolar Disorder:
15:36-15:58 New insights into the Molecular Pathogenesis using Proteomic
(22) Approaches
Michael Dunn (University College Dublin, Ireland)
- SY-6-5 Proteomic Analysis of Serum from Diabetic Nephropathy Patients
15:58-16:14 Chan-Wha Kim (Korea University, Korea)
(16)
- SY-6-6 [Oral Presentation] Quantitative Proteomics Analyses of the Effect of
16:14-16:30 Insulin on the Human Visceral Adipose Tissue Secretome Using a
(16) Metabolic Labeling Approach
Han Roelofsen (University Medical Centre Groningen, Netherlands)

SY-7 Symposium 7:
14:30-16:30 Target Discovery Proteomics for Different Organisms

Co-chairs:
Hanno Langen (Roche Center for Medical Genomics, Switzerland)
Jose Mato (Cooperative Research Centre on Biosciences, Spain)

Jangbogo Hall 331, Level 3, COEX

- SY-7-1 Proteomics-based Expression Library Screening (PELS) - A Platform

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HUPO 6th Annual World Congress, Seoul 2007
Scientific Program

- 14:30-14:52
(22) Technology for Rapid Discovery of Pathogen-specific Markers of Infection
Manohar John (Massachusetts General Hospital, USA)
- SY-7-2
14:52-15:14
(22) Update and Challenges on Crop proteomics: Aim at sustainable Agriculture of Tomorrow
Setsuko Komatsu (National Institute of Agrobiological Sciences, Japan)
- SY-7-3
15:14-15:36
(22) Probing the Metabolic Proteome of Bovine Mammary Gland
Bill Jordan (Victoria University, New Zealand)
- SY-7-4
15:36-15:58
(22) Expression Proteomics: Elucidating Signal-generated Protein Modifications
Ralph Bradshaw (Univ. of California, San Francisco, USA)
- SY-7-5
15:58-16:14
(16) [Oral Presentation] Proteomics Study of Low Density Lipoprotein Glycation and Oxidation Combined with MALDI Lipid Profiling
Helen Montgomery (Shimadzu Corp., UK)
- SY-7-6
16:14-16:30
(16) [Oral Presentation] Linking Fungal Virulence and Secretome: Comprehensive Analysis of Proteins Secreted by *Trichophyton Rubrum* and *T. violaceum*
Patrice Waridel (University of Lausanne, Switzerland)

- SY-8
14:30-16:30 Symposium 8:
Proteomics of Model Animals
- Co-chairs:
Donald Riddle (Univ. of British Columbia, Canada)
JooHong Ahn (Kwangju Institute of Science and Technology, Korea)

Jangbogo Hall 332, Level 3, COEX

- SY-8-1
14:30-14:52
(22) New Approaches to Biological Problems in Model Organisms using Proteomics combined with Genetics
Donald Riddle (Univ. of British Columbia, Canada)
- SY-8-2
14:52-15:14
(22) From the Annotation of the Genome to the Characterization of the Insulin/IGF-1 Signaling Pathway in *C. elegans*
Mike MacCoss (Univ. of Washington, USA)
- SY-8-3
15:14-15:36
(22) Targeted Proteomics in *C. elegans*
Mike Hengartner (Univ. of Zurich, Switzerland)
- SY-8-4
15:36-15:58
(22) Proteomic Analysis of Germline-enriched Protein in *C. elegans* using 2D-DIGE
Yhong Hee Shim (Konkuk University, Korea)
- SY-8-5
15:58-16:14
(16) Development and host response to infection in honeybee larvae
Leonard Foster (University of British Columbia, Canada)
- SY-8-6
16:14-16:30
(16) [Oral Presentation] Molecular Systems Biology of Aging and Metabolic Disorders: Using Yeast as a Model for Defining a Modular Network Controlling Aging and Metabolic Disorders
Vladmir Titorenko (Concordia University, Canada)

- PP-1 Poster Presentation & Discussion – I

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Scientific Program

16:30-17:40 Exhibition & Poster Area, Level 3, COEX

16:30-17:00 Poster Presentation
(Odd Number of Poster)

17:00-17:30 Poster Presentation
(Even Number of Poster)

17:40-18:40 Plenary Session 3 & 4

Co-chairs:

Richard Smith (Pacific Northwest National Laboratory, USA)

Ralph Bradshaw (Univ. of California, San Francisco, USA)

Auditorium, Level 3, COEX

** This session is partially supported by Korea Institute of Science and Technology, Korea.*

PL-3 Plenary Lecture-3:

17:40-18:10 Driving Biological Discovery using Mass Spectrometry
John Yates (Scripps Research Institute, USA)

PL-4 Plenary Lecture-4*:

18:10-18:40 Quantitative Proteomics and Systems Biology
Ruedi Aebersold (Institute for Systems Biology, USA)

18:50-21:00 Opening Ceremony (Auditorium) & Welcome Reception (Exhibition & Poster Area)

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Tuesday, October 9, 2007

CW-TB1 Thermo Fisher Scientific
08:00-08:50 Jangbogo Hall 331, Level 3, COEX
CW-TB2 Perkin Elmer
08:00-08:50 Jangbogo Hall 332, Level 3, COEX
CW-TB3 Dionex
08:00-08:50 Jangbogo Hall 333, Level 3, COEX

KL-2 Keynote Lecture-2:
09:00-09:35 The Ubiquitin Proteolytic System: "From Basic Mechanisms to the Patient Bed"
 Aaron Ciechanova
 (Rappaport Faculty of Medicine and Research Institute, Israel)

 Chair: John Bergeron (McGill University, Canada)

 Auditorium, Level 3, COEX

09:40-10:40 Plenary Session 5 & 6

 Co-chairs:
 Michael Dunn (University College Dublin, Ireland)
 John Yates (Scripps Research Institute, USA)

 Auditorium, Level 3, COEX

** This session is partially supported by Korea Institute of Science and Technology, Korea.*

PL-5 Plenary Lecture-5:
09:40-10:10 The Application of Organellar Proteomics to develop the Protein Microscope
 John Bergeron (McGill University, Canada)

PL-6 Plenary Lecture-6*:
10:10-10:40 The Road to Proteomic Perfection: New Developments improving Throughput, Sensitivity, and Data Quality
 Richard Smith (Pacific Northwest National Laboratory, USA)

10:40-11:00 Coffee Breaks

11:00-13:00 Parallel Symposia
 Jangbogo Hall, Level 3, COEX

SY-9 Symposium 9:
11:00-13:00 Cancer Biomarker Proteomics-1: Strategy and Future Direction

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HUPO 6th Annual World Congress, Seoul 2007
Scientific Program

Co-chairs:

Fuchu He (Beijing Institute of Radiation Medicine, China)
Friedrich Lottspeich (Max Planck Institute of Biochemistry, Germany)

Jangbogo Hall 335, Level 3, COEX

** This session is partially supported by Korea Institute of Science and Technology, Korea.*

- SY-9-1 Multiple Strategies for Cancer Biomarker Discovery
11:00-11:22 Gilbert S. Omenn (Univ. of Michigan, USA)
(22)
- SY-9-2 Systematic Identification of Molecular Markers in Colon Cancers with
11:22-11:44 High Microsatellite Instability
(22) Hoguen Kim (Yonsei University, Korea)
- SY-9-3 Blood-based Exoprotease Activities as Biomarkers for Cancer
11:44-12:06 Paul Tempst (Memorial Sloan-Kettering Cancer Center, USA)
(22)
- SY-9-4 An Integrated Proteomics Approach for the Discovery of Gastric Cancer
12:06-12:28 Biomarkers
(22) Ching Ming Maxey Chung (National University of Singapore, Singapore)
- SY-9-5 A Targeted Strategy for Translating Clinical Proteomic Discoveries to the
12:28-12:44 Cancer Clinic*
(16) Henry Rodriguez (National Cancer Institute, USA)
- SY-9-6 [Oral Presentation] Altered Nuclear-Cytoplasmic Ratio of Survivin: Is a
12:44-13:00 Prognostic Indicator in Breast Cancer
(16) Donal Brennan (University College Dublin, Ireland)

SY-10 Symposium 10:
11:00-13:00 Biochips for Detection of Molecular Signatures

Co-chairs:

Michael Snyder (Yale University, USA)
Dolores Cahill (University College Dublin, Ireland)

Jangbogo Hall 336, Level 3, COEX

- SY-10-1 Biochips for Proteomics Research
11:00-11:22 Dolores Cahill (University College Dublin, Ireland)
(22)
- SY-10-2 Miniaturized Immunoassays for Biomarker Discovery
11:22-11:44 Thomas Joos (University of Tuebingen, Germany)
(22)
- SY-10-3 Antibody Arrays for Measuring Glycan Variation and Protein Interaction
11:44-12:06 Levels
(22) Brian Haab (Van Andel Research Institute, USA)
- SY-10-4 Deciphering Disease associated Biomarker Signatures using Antibody
12:06-12:28 Microarrays
(22) Carl Borrebaeck (Lund University, Sweden)
- SY-10-5 [Oral Presentation] ProteoChip-based Antibody Microarray for Differential
12:28-12:44 Protein Expression Profiling
(16) In-Cheol Kang (Hoseo University, Korea)

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HUPO 6th Annual World Congress, Seoul 2007
Scientific Program

SY-10-6 [Oral Presentation] Carbohydrate Microarrays for High-Throughput
12:44-13:00 Analysis of Carbohydrate-Recognition Events
(16) Injae Shin (Yonsei University, Korea)

SY-11 Symposium 11:
11:00-12:55 Organelle Proteomics for Cellular Functions

Co-chairs:
Peipei Ping (Univ. of California, Los Angeles, USA)
Peter Liu (Univ. of Toronto, Canada)

Jangbogo Hall 331, Level 3, COEX

SY-11-1 Surprising Insights from Proteomics of Lipid Droplets
11:00-11:25 Steven Gross (Univ. of California, Irvine, USA)
(25)

SY-11-2 Regulation of Mammalian 26S Proteasome Function: Phosphorylation As
11:25-11:50 a Key Signaling Event
(25) Peipei Ping (Univ. of California, San Francisco, USA)

SY-11-3 The Analysis of Cells Secretomes: How to reach Minor Proteins
11:50-12:15 Thierry Rabilloud (DRDC/BCEP, France)
(25)

SY-11-4 [Oral Presentation] Proteomic Time Stamps of Endocytosis
12:15-12:35 Rong Wang (Mount Sinai Hospital, USA)
(20)

SY-11-6 [Oral Presentation] Comparative Proteomic Analysis of Caveolae
12:35-12:55 Michelle Hill (University of Queensland, Australia)
(20)

SY-12 Symposium 12:
11:00-13:00 Systems Biology for Protein Networking

Co-chairs:
Ruedi Aebersold (Institute for Systems Biology, USA)
Pierre Legrain (Institut de Biologie et Technologies de Saclay (IBiTec-S),
France)

Jangbogo Hall 332, Level 3, COEX

SY-12-1 Differentiation of Embryonic Stem Cells towards Cardiomyocytes
11:00-11:22 Jeroen Krijgsveld (Utrecht University, Netherlands)
(22)

SY-12-2 Systems Biological Analysis of the Transcriptomic Profiles in Stem Cells
11:22-11:44 and Cancer Cells
(22) Bong Hee Lee (Gachon University of Medicine and Science, Korea)

SY-12-3 Systems Biology: Network of Networks
11:44-12:06 Ruedi Aebersold (Institute for Systems Biology, USA)
(22)

SY-12-4 Systems Biological Approaches for Improving Metabolic Performance
12:06-12:28 Sang Yup Lee (Korea Advanced Institute of Science and Technology,
(22) Korea)

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Scientific Program

SY-12-5 Prediction of Subcellular Localization Information using Protein-protein
12:28-12:48 Interaction Information
(20) Ki-Young Lee (Univ. of California San Diego, USA)
SY-12-6 [Oral Presentation] From Proteomics to Systems Biology Research for
12:48-13:00 Invasion of Metastatic HCC
(12) Pengyuan Yang (Fudan University, China)

WE – 2 Workshop & Exhibition – II
13:00-14:30 Jangbogo Hall & Exhibition Area, Level 3, COEX
CW-TL1 Bio-Rad (Premier Sponsor of HUPO 2007)
13:10-14:20 Jangbogo Hall 331
CW-TL2 Sigma Aldrich
13:10-14:20 Jangbogo Hall 332
CW-TL3 Applied Biosystems (Premier Sponsor of HUPO 2007)
13:10-14:20 Jangbogo Hall 333

14:30-16:30 Parallel Symposia
 Jangbogo Hall, Level 3, COEX
SY-13 Symposium 13:
14:30-16:30 Mass Spectrometry-2: A Matter of Sensitivity for Biomarker Discovery

 Co-chairs:
 Catherine Fenselau (Univ. of Maryland, USA)
 Ron Beavis (Univ. of British Columbia, Canada)

 Jangbogo Hall 335, Level 3, COEX

** This session is partially supported by Korea Society of Mass Spectrometry.*

SY-13-1 High Sensitive MALDI-MS/MS for "omics"
14:30-14:56 Koichi Tanaka, 2002 Nobel Laureate (Shimadzu Corp. Japan)
(26)
SY-13-2 Mass Spectrometric Analysis of Phosphoproteome with Phosphospecific
14:56-15:18 Tagging and Site Localization
(22) Jongshin Yoo (Korea Basic Science Institute, Korea)
SY-13-3 The Detection of Single Amino Acid Polymorphisms in Plasma Proteins
15:18-15:40 Ron Beavis (Beavis Informatics Ltd., Winnipeg., Canada)
(22)
SY-13-4 Chemical Methods for Selective Proteome Analysis
15:40-16:02 Gavin Reid (Michigan State University, USA)
(22)
SY-13-5 [Oral Presentation] Comparison of ECD and ETD on High Field Hybrid
16:02-16:16 FTMS Instruments for Proteomics Research
(14) Michael Easterling (Brucker Daltonics, Inc., USA)
SY-13-6 [Oral Presentation] A Novel, Highly Stable Nano-electrospray Emitter for
16:16-16:30 Routine High Sensitivity Nano LC/MS
(14) Richard Oleschuk (Queen's University, Canada)

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HUPO 6th Annual World Congress, Seoul 2007
Scientific Program

SY-14 14:30-16:30	Symposium 14: Disease Proteomics-2: A Matter of Tracking the Clinical Specimen Co-chairs: Helmut Meyer (Bochum University, Germany) Ravi Sirdeshmukh (Center for Cellular and Molecular Biology, India) Jangbogo Hall 336, Level 3, COEX
SY-14-1 14:30-14:52 (22)	Biomarker Discovery: Advantages of Extensive Intact Protein Jennifer Van Eyk (Johns Hopkins University, USA)
SY-14-2 14:52-15:14 (22)	Tracking Progression of Diabetes in Serum, Urine and Tissues by Proteomic Investigation Rong Zeng (Shanghai Institutes for Biological Sciences, China)
SY-14-3 15:14-15:36 (22)	Linking Proteomics to Signalling Pathways and Diseases Jan van Oostrum (Novartis Pharma AG, Switzerland)
SY-14-4 15:36-15:58 (22)	A New Method for Quantitative Proteomics by Combining Chemical Modification with LTQ-FT Mass Spectrometry for the Analysis of Plasma Proteome Xiaohong Qian (National Center of Biomedical Analysis, China)
SY-14-5 15:58-16:14 (16)	[Oral Presentation] Application of Proteomics in Asthma Research TaiYoun Rhim (Soonchunhyang University, Korea)
SY-14-6 16:14-16:30 (16)	[Oral Presentation] Proteomic Analysis of the Cortisol Mediated Stress Response in Thp-1 Monocytes/Macrophages Using DIGE Technology Anja Maria Billing (National Health Laboratory, Institute of Immunology, Luxembourg)
SY-15 14:30-16:30	Symposium 15: Nano Imaging Technology for Biomarker Discovery Co-chairs: Jan Schnitzer (Sidney Kimmel Cancer Center, USA) Ruth Van Bogelen (Pfizer, USA) Jangbogo Hall 331, Level 3, COEX
SY-15-1 14:30-14:55 (25)	Discovery and Validation of Accessible Cancer Targets through Organellar Proteomic Imaging <i>In Vivo</i> Jan Schnitzer (Sidney Kimmel Cancer Center, USA)
SY-15-2 14:55-15:20 (25)	Proteomic Analysis of Molecular Probes for Imaging of ES cells Evelyn Wang (Stanford University, USA)
SY-15-3 15:20-15:45 (25)	Analytical Nanotechnology in Proteomics Alexander Archakov (Russian Academy of Medical Sciences, Russia)
SY-15-4 15:45-16:10	The Human TOPONOME Project: Deciphering the Organized Core Proteome until 2020

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HUPO 6th Annual World Congress, Seoul 2007
Scientific Program

(25) Walter Schubert (Otto-von-Guericke-University, Germany)
SY-15-5 [Oral Presentation] Novel CD Optico-acoustic Biosensor for Investigation
16:10-16:30 of Protein-protein Interactions
(20) Yuri Ivanov (Institute of Biomedical Chemistry RAMS, Russia)

SY-16 Symposium 16:
14:30-16:30 Glyco-proteomics for Biomarker Discovery

Co-chairs:
Naoyuki Taniguchi (Osaka University, Japan)
William Hancock (Northeastern Univ., USA)

Jangbogo Hall 332, Level 3, COEX

SY-16-1 The Complexity of the Plasma Proteome and Challenges in Study of
14:30-14:52 Clinical Proteomics

(22) William Hancock (Northeastern University, USA)

SY-16-2 Why Core Fucosylation of N-glycans is Important as Cancer Biomarkers

14:52-15:14 Naoyuki Taniguchi (Osaka University, Japan)

(22)

SY-16-3 Development of Three Major Tools for Glycoproteomics toward
15:14-15:36 Glycobiomarkers

(22) Hisashi Narimatsu (Advance Industrial Science and Technology Institute,
Japan)

SY-16-4 The Glycomic Perspectives in Integrated Proteomic Studies

15:36-15:58 Kay-Hooi Khoo (National Core Facilities for Proteomics Research,
Taiwan)

SY-16-5 [Oral Presentation] Functional Roles of Dynamic O-GlcNAc Modification
15:58-16:14 on Nucleocytoplasmic Proteins

(16) Jin Won Cho (Yonsei University, Korea)

SY-16-6 [Oral Presentation] Novel Glycomic Platform for Quantitative Biomarker
16:14-16:30 Analysis

(16) Bruno Domon (Institute for Molecular Systems Biology, Switzerland)

PP-2 Poster Presentation & Discussion – II
16:30-17:40 Exhibition & Poster Area, Level 3, COEX

16:30-17:00 Poster Presentation
(Odd Number of Poster)

17:00-17:30 Poster Presentation
(Even Number of Poster)

17:40-18:40 Plenary Session 7 & 8

Co-chairs:
William Hancock (Northeastern University, USA)
Peipei Ping (University of California, San Francisco, USA)

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HUPO 6th Annual World Congress, Seoul 2007
Scientific Program

Auditorium, Level 3, COEX

** This session is partially supported by Korea Institute of Science and Technology, Korea.*

- PL-7
17:40-18:10
Plenary Lecture-7:
Validated Antibodies to the Human Proteome - the First Four Years
Mathias Uhlen (Royal Institute of Technology (KTH), Sweden)
- PL-8
18:10-18:40
Plenary Lecture-8*:
Proteomics Approaches for Probing Biochemical Pathways and Human Disease
Michael Snyder (Yale University, USA)
- CW-TD1
18:50-20:00
Corporate Workshop - Becton Dickinson
Jangbogo Hall 335, Level 3, COEX

- SF
20:10-22:04
Special Function Meetings
Jangbogo Hall, Level 3, COEX
- SF-1
20:10-22:04
HUPO Young Scientist Award Lectures / Colloquium I - Technology and Strategy for Proteomic Analysis

Co-chairs (tentative):
John Yates (Scripps Institute, USA)
Yong Mok Park (Korea Basic Science Institute, Korea)

Jangbogo Hall 336, Level 3, COEX

- SF-1-1
20:10-20:28
(18)
[Young Scientist Award Lecture] Magnetic Microparticles as a Tool for High Sensitive Proteomics
Jochen F. Peter (Technical University of Munich, Germany)
- SF-1-2
20:28-20:44
(16)
Answers From Proteomics Data, even if Your Question is Complex, or You Speak a Different Language
Lennart Martens (EMBL-EBI, UK)
- SF-1-3
20:44-21:00
(16)
TOF-SIMS Imaging: A New Light for *in situ* Metabolomics
Sebastian Mas (Autonomous University of Madrid, Spain)
- SF-1-4
21:00-21:16
(16)
ICPL Labeling in Functional Proteomics Experiments: Substrate Identification of the Extracellular Protease ADAMTS1 Using SDS-PAGE LC-MS/MS
Francesc Canals (Vall d'Hebron Unversity Hospital Research Institute, Spain)
- SF-1-5
21:16-21:32
(16)
¹⁸O Labeling as a Tool to Differentiate between Real Interactors and Non-Specifically Binding Proteins in Defining Protein Complexes
Jeroen A.A. Demmers (Erasmus University Medical Center, Netherlands)
- SF-1-6
21:32-21:48
(16)
Accurate Mass and Time Analysis Techniques Applied to Extensively Fractionated Data
Damon May (Fred Hutchinson Cancer Research Center, USA)
- SF-1-7
21:48-22:04
(16)
Differential Expression of Proteins in Human Leukemia and Lymphoma Cells Induced by Fludarabine
Richard Christopherson (Univ. of Sydney, Australia)

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Scientific Program

SF-2 20:10-22:02	Colloquium II – Discovery of Disease Biomarker Co-chairs (tentative): Myeong-Hee Yu (Korea Institute of Science and Technology, Korea) Bill Jordan (Victoria University, New Zealand) Jangbogo Hall 331, Level 3, COEX
SF-2-1 20:10-20:24 (14)	A Novel Method of Tissue Collection and Storage for Proteomic Analysis: Validation Using SELDI-TOF MS Rita Machaalani (University of Sydney, Australia)
SF-2-2 20:24-20:38 (14)	From Benchside Screening for Markers of Neuro-Vascular Injury to Bedside Validation in Stroke Patients: Feasibility of Bringing In Vitro Screening to the Bedside MingMing Ning (Massachusetts General Hospital / Harvard Medical School, USA)
SF-2-3 20:38-20:52 (14)	Proteome Mapping of Healing Corneal Epithelial Membrane Nikhat A Siddiqui (University of Karachi, Pakistan)
SF-2-4 20:52-21:06 (14)	High Throughput Detection of Protein Bioactivities: Coupling Function with Identity Using the Surefire® Screening System Michael Crouch (TGR BioSciences Pty Ltd and Proteomics Australia Adelaide Node, Australia)
SF-2-5 21:06-21:20 (14)	Correlation of miRNA and SILAC Protein Expression in a Primary Cancer Cell Line Marshall Pope (Invitrogen, USA)
SF-2-6 21:20-21:34 (14)	Proteomic Analysis of TRAIL-Resistant Human Myeloid Leukemia Cells Jiri Petrak (Institute of Hematology and Blood Transfusion Prague, Czech Republic)
SF-2-7 21:34-22:48 (14)	Novel Traumatic Brain Injury Biomarkers: From Multi-Platform Neuroproteomic- Discovery to their Validation in Animal Model and Human Clinical Study Kevin K.W. Wang (University of Florida, USA)
SF-2-8 21:48-22:02 (14)	Differential Membrane Proteome Analysis of Monocyte-Derived Dendritic Cells Using Two Dimensional Digest (Chemdigest/Trypsin)-LC-MS/MS and Index-T Strategy Sang Hoon Ha (Sigmol Inc., Korea)
SF-3 20:10-22:00	[Closed Forum] YPRC-BPRC Joint Forum – Hosted by YPRC Jangbogo Hall 332, Level 3, COEX

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HUPO 6th Annual World Congress, Seoul 2007
Scientific Program

11:00-13:00	Parallel Symposia Jangbogo Hall, Level 3, COEX
SY-17	Symposium 17:
11:00-13:00	Cancer Biomarker Proteomics-2: Search for Therapeutic Target
	Co-chairs: Julio Celis (Danish Center for Translational Breast Cancer Research, Denmark) Terence Poon (Institute of Digestive Diseases of the Chinese University of Hong Kong, China)
	Jangbogo Hall 335, Level 3, COEX
SY-17-1	Growth Factors Signaling in Breast Cancer Cells
11:00-11:22 (22)	Hubert Hondermarck (University of Sciences and Technologies Lille, France)
SY-17-2	Finding Biomarkers and Therapeutic Targets by Functional Proteomics
11:22-11:44 (22)	Kazuyuki Nakamura (Yamaguchi University, Japan)
SY-17-3	Proteomics for Identifying Biomarkers and Therapeutic Targets in Pancreatic Cancer
11:44-12:06 (22)	Akhilesh Pandey (Johns Hopkins University, USA)
SY-17-4	Systems-level Proteomic Analysis of Jurkat T Leukemia Cells
12:06-12:28 (22)	David Han (University of Connecticut School of Medicine, USA)
SY-17-5	[Oral Presentation] Serum Proteome Profiling of Metastatic Breast Cancer
12:28-12:44 (16)	Christer Wingren (Lund University, Sweden)
SY-17-6	[Oral Presentation] Discovery and Validation of a Protein Biomarker Associated with 'Acquired' Cisplatin Resistance in Human Ovarian Cancer
12:44-13:00 (16)	Zhen Zhang (Johns Hopkins Medical Institutions, USA)
SY-18	Symposium 18:
11:00-13:00	Technology Update for the Proteomics Tools
	Co-chairs: Angelika Görg (Technical University of Munich, Germany) Mark Baker (Australia Proteome Analysis Facility, Australia)
	Jangbogo Hall 336, Level 3, COEX
SY-18-1	Today's 2D Electrophoresis
11:00-11:22 (22)	Angelika Görg (Technical University of Munich, Germany)
SY-18-2	Moving beneath the tip of the Proteomic Iceberg
11:22-11:44 (22)	Mark Baker (Australia Proteome Analysis Facility, Australia)
SY-18-3	From MALDI Imaging to Specific MALDI Imaging: New Insights for Clinical Proteomics
11:44-12:06 (22)	Isabelle Fournier (University of Lille, France)
SY-18-4	Automated TiO ₂ -based Phosphoproteomics

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HUPO 6th Annual World Congress, Seoul 2007
Scientific Program

12:06-12:28
(22) Albert Heck (Utrecht University, Netherlands)
SY-18-5 [Oral Presentation] Development of Non-Gel Based 2-Dimensional (pI &
12:28-12:44 MW) Protein Fractionation Channel System
(16) Myeong Hee Moon (Yonsei University, Korea)
SY-18-6 [Oral presentation] Rapid, Comprehensive and High-Resolution Intact
12:44-13:00 Protein Separation for Proteomics
(16) Andrew Pitt (University of Glasgow, UK)

SY-19 Symposium 19:
11:00-13:00 Nutri- and Toxicoproteomics

Co-chairs:
Alex Merrick (National Institute of Environmental Health Science, USA)
Michael Fountoulakis (Academy of Athens, Greece)

Jangbogo Hall 331, Level 3, COEX

SY-19-1 High-throughput Proteomics in the Discovery of Drug Toxicity Markers
11:00-11:22 Michael Fountoulakis (Academy of Athens, Greece)
(22)
SY-19-2 Toxicoproteomics and Targeted Discovery Tools in Tissue Injury and
11:22-11:44 Inflammation
(22) Alex Merrick (National Institute of Environmental Health Sciences, USA)
SY-19-3 Proteomic-based Discovery of Nutrient-gene Regulations
11:44-12:06 Kaatje Lenaerts (Maastricht University, Netherlands)
(22)
SY-19-4 Assessing Cysteine Adducts in Nerve Terminal Proteins after *In Vivo*
12:06-12:28 Acrylamide exposure using ICAT
(22) David Barber (University of Florida, USA)
SY-19-5 [Oral Presentation] Toxicoproteomics and its Application to Human
12:28-12:44 Health Risk Assessment
(16) Yue Ge (US Environmental Protection Agency, USA)
SY-19-6 [Oral Presentation] Comparative Peptidomics of Tarantula Venoms:
12:44-13:00 Toward the Identification of New Toxins with High Pharmacological
(16) Potential
Audrey Combes (Jacques Monod Institute, France)

SY-20 Symposium 20:
11:00-13:00 Proteome Informatics for the Large Scale Initiatives

Co-chairs:
Ron Appel (Swiss Institute of Bioinformatics, Switzerland)
David Fenyo (Rockefeller University, USA)

Jangbogo Hall 332, Level 3, COEX

SY-20-1 Has the Proteome Informatics Bottleneck been sufficiently Widened?
11:00-11:22 Ron Appel (Swiss Institute of Bioinformatics, Switzerland)
(22)
SY-20-2 Proteomics Standards Initiative - Overcoming the Fragmentation of
11:22-11:44 Proteomics Data
(22) Henning Hermjakob (European Molecular Biology Laboratory-European

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Scientific Program

- SY-20-3 Bioinformatics Institute, UK
11:44-12:06 A Novel Computational Approach for Proteomics: Searching in Annotated
(22) Sequence Databases using Combined MS and MSMS spectra
SY-20-4 Rune Matthiesen (Cooperative Research Centre on Biosciences, Spain)
12:06-12:28 Assembling Multiple Sources of Proteomic Data to Support Biomarker
(22) Discovery for Ovarian Cancer
SY-20-5 Martin McIntosh (Fred Hutchinson Cancer Research Center, USA)
12:28-12:44 [Oral Presentation] Human Proteinpedia: A Portal for Sharing and
(16) Integration of Human Protein Data
SY-20-6 Akhilesh Pandey (Johns Hopkins Univ. USA)
12:44-13:00 [Oral Presentation] Evaluating Statistical Significance of Peptide
(16) Identifications Using the Partition Function of Tandem Mass Spectra
Sangtae Kim (University of California, San Diego, USA)

- WE - 3 Workshop & Exhibition – III
13:00-14:30 Jangbogo Hall and Exhibition Area, Level 3, COEX
CW-WL1 Agilent Technologies (Premier Sponsor of HUPO 2007)
13:10-14:20 Jangbogo Hall 331
CW-WL2 Brucker-Daltonics (Premier Sponsor of HUPO 2007)
13:10-14:20 Jangbogo Hall 332
CW-WL3 GE Healthcare
13:10-14:20 Jangbogo Hall 333

- PP-3 Poster Presentation & Discussion – III
14:30-15:30 Exhibition & Poster Area, Level 3, COEX
14:30-15:00 Poster Presentation
(Odd Number of Poster)
15:00-15:30 Poster Presentation
(Even Number of Poster)

- PL-10 Plenary Lecture 10:
15:30-16:00 Current Developments in Databases and Reporting Standards in
Proteomics
Rolf Apweiler (European Molecular Biology Laboratory-European
Bioinformatics Institute, UK)

Chair: Jan van Oostrum (Novartis Pharma AG, Switzerland)

- PD-2 Auditorium, Level 3, COEX
16:00-17:10 Panel Discussion Session – II:
Future Direction on the Technologies (MS and Informatics tools)
Auditorium, Level 3, COEX

Co-chairs:
Rolf Apweiler (European Molecular Biology Laboratory-European
Bioinformatics Institute, UK)

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HUPO 6th Annual World Congress, Seoul 2007
Scientific Program

Richard Smith (Pacific Northwest National Laboratory, USA)

Panelists:

Ruedi Aebersold (Institute for Systems Biology, USA)

Ron Appel (Swiss Institute of Bioinformatics)

Ron Beavis (Beavis Informatics Ltd., Winnipeg., Canada)

Ralph Bradshaw (Univ. of California, San Francisco, USA)

William Hancock (North Eastern Univ., USA)

Albert Heck (Utrecht University, Netherlands)

Martin McIntosh (Fred Hutchinson Cancer Research Center, USA)

Richard Simpson (Ludwig Institute for Cancer Research, Australia)

John Yates (Scripps Research Institute, USA)

17:20-18:20	General Assembly and Closing Ceremony Auditorium, Level 3, COEX
17:20-17:50	General Assembly Meeting
17:50-18:20	Closing Ceremony (incl. Introduction to HUPO 7th Annual World Congress, Amsterdam 2008)
18:20-19:00	HUPO Award Lectures Auditorium, Level 3, COEX
18:20-18:40	A Toolmaker's Adventures in Proteomics Peter Roepstorff (Univ. of Southern Denmark, Denmark)
18:40-19:00	A Toolmaker's Adventures in Proteomics Brian Chait (Rockefeller University, USA)
20:20-22:00	Congress Dinner (Ticket Holder Only) Gayagum Hall, Sheraton Grande Walkerhill

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