KHUPO 12TH ANNUAL INTERNATIONAL PROTEOMICS CONFERENCE

「Proteomics for Functional Genomics」

March 29-30, 2012
Cultural Center, Seoul National University, Seoul, Korea

THE KOREAN HUMAN PROTEOME ORGANIZATION (KHUPO)
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INVITATION

On behalf of the Organizing Committee of the Korean Human Proteome Organization (KHUPO), I would like to cordially invite all the speakers and participants from the abroad and domestic in the 12th Annual International Conference of KHUPO, which will be held on March 29~30, 2012 at the Cultural Center of Seoul National University, Seoul, Korea.

This 12th Annual Meeting of KHUPO focuses on the theme, “Proteomics for Functional Genomics” For this meeting, four plenary lectures and numerous distinguished scientists in the field were invited. I am very much confident that this meeting will provide an excellent opportunity to introduce and share the cutting edge results of proteomics research. In addition it will also help us jump on more steps towards for the development of proteomics core technologies and cooperation among the scientists in Korea and rest of the world.

As proteomics is staged at the rapid growth phase with respect to technology, training and infrastructure in the world, Korean scientists will continually contribute to explore and elucidate all human proteome researches. I hope the efforts and activities of KHUPO or proteomics community will serve as the basis for the functional characterization of all proteins and their variants relevant to human biology and disease.

Finally, I hope that 12th Annual Meetings of KHUPO serves as a major scientific forum for the high-quality research of proteome scientists, linking between Korea and the rest of the world.

With best wishes,

Chan-Wha Kim, Ph.D
President, The Korean Human Proteome Organization
Professor, Division of Life Sciences and Biotechnology, Korea University
GENERAL INFORMATION

Conference Information

- Date: Mar 29 (Thursday) – 30 (Friday), 2012
- Venue: Cultural Center, Seoul National University, Seoul, KOREA
- Theme: “Proteomics for Functional Genomics”
- Official Language: English
- Organized by the Korean Human Proteomics Organization (KHUPO)

Key Dates for Major Activities

- Final Deadline for Abstract Submission: Mar 15th, 2012
- Final Deadline for Online Pre-registration: Mar 15th, 2012
- Deadline for Exhibition and Advertisement in the Abstract Book: Mar 9th, 2012

Registration Fee

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Contact Address

The Korean Human Proteome Organization (KHUPO)
Rm#422, Industry-University Building, Yonsei University
134 Shinchon-dong, Sudeamoon-gu, Seoul, 120-749, Korea
Tel: 82-2-393-8328, Fax: 82-2-393-6589, E-mail: admin@proteomix.org
URL: http://www.khupo.org/meeting
GENERAL INFORMATION

Organizing Committee

President
Chan-Wha Kim (Korea University)

Vice President
Dae Kyoung Kim (Chung-Ang University)
Bonghee Lee (Gachon University)
Je Kyung Seong (Seoul National University)
Hun Choi (SCINCO Co. Ltd)

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Secretary of Academic Affair
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Sang Won Kang (Ewha Womans University)

Secretary of Financial Affair
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Secretary of Editorial Affair
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Secretary of Planning
Jin Han (Inje University)

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Secretary of Education
Hookeun Lee (Gachon University)
Jin Young Kim (Korea Basic Science Institute)

Secretary of Public Relation
Jae-Pil Jeon (Korea National Institute of Health)
Eun-young Lim (Agilent Technologies Korea Ltd.)

Chair, Committee for Election Affair
Kwon-Soo Ha (Kangwon National University)

Chair, Committee for Fund-Raising Affair
Young Mok Park (Korea Basic Science Institute)
## PROGRAM AT A GLANCE

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<tr>
<th>Time</th>
<th>March 29(Thu)</th>
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<td><strong>Registration</strong> (08:00-)</td>
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PLENARY LECTURERS

Plenary Lecture 1

Mar. 29(Thu) 09:00-09:40
Chair: Chae, Chi-Bom (Catholic University of Korea, Korea)

Interrogating Protein Motions by Hydrogen Exchange Mass Spectrometry

Natalie G. Ahn (University of Colorado, USA)

Plenary Lecture 2

Mar. 29(Thu) 16:00-16:40
Chair: Doe Sun Na (University of Ulsan, Korea)

Molecular dissection and multi-scale integration of functional protein networks in health and disease states: analyzing the molecular basis of human vision

Marius Ueffing (Helmholtz Zentrum Munchen-German Research Center, Germany)

Plenary Lecture 3

Mar. 30(Fri) 09:00-09:40
Chair: Young Mok Park (Korea Basic Science Institute, Korea)

Taking a Top Down Approach to the Human Proteome Project

Neil L. Kelleher (Northwestern University, USA)

Plenary Lecture 4

Mar. 30(Fri) 16:00-16:40
Chair: Ho Jeong Kwon (Yonsei University, Korea)

Extending detectable proteomic dynamic range without fractionation using data independent acquisition

David R. Goodlett (University of Washington, USA)
Symposium 1  
**Disease Biomarker**  
Mar 29 (Thursday) 09:40-10:50  
Organizer&Chair: Youngsoo Kim (Seoul National University, Korea),  
Jae-Pil Jeon (Korea National Institute of Health, Korea)  
(SY-1-1) 09:40-10:05 Antibody-based proteomics in the era of genome re-sequencing  
Tesshi Yamada (*National Cancer Center Research Institute, Japan*)  
(SY-1-2) 10:05-10:25 Linking Cancer Genome to Proteome: A New NCI Program  
Henry Rodriguez (*National Cancer Institute, USA*)  
(SY-1-3) 10:25-10:50 A targeted proteomics-based pipeline for verification of biomarkers in plasma  
Jacob Kennedy (*Fred Hutchinson Cancer Research Center, USA*)

Symposium 2  
**Quantitative Proteomics**  
Mar 29 (Thursday) 11:10-12:20  
Organizer&Chair: Hookeun Lee (Gachon University, Korea),  
Jin Young Kim (Korea Basic Science Institute, Korea)  
(SY-2-1) 11:10-11:35 Differential expression profiling of cell surface antigens of CSC-like cells derived from breast cancer cell lines  
Eugene C. Yi (*Seoul National University, Korea*)  
(SY-2-2) 11:35-12:00 Sulindac induces deregulation of the extracellular matrix, cytoskeleton network, and membrane proteolytic cleavage prior to induction of apoptosis in human colon carcinoma cells  
David W. Greening (*La Trobe University Institute for Molecular Science (LIMS), Australia*)  
(SY-2-3) 12:00-12:20 Quantitative analysis of the N-terminally truncated isoforms of platelet factor-4 in acute myeloid leukemia patients in complete remission  
Jin Young Kim (*Korea Basic Science Institute, Korea*)

Symposium 3  
**Cancer Proteomics**  
*Joint Symposium with Korean Cancer Association*  
Mar 29 (Thursday) 14:50-16:00  
Organizer&Chair: Hyun Cheol Chung (Yonsei University, Korea)  
(SY-3-1) 14:50-15:10 Discovery of Class Selective PTP Probes by Large Scale Expression of Human PTPs  
Sang Jeon Chung (*Korea Research Institute of Bioscience and Biotechnology, Korea*)
Discovery of theragnostic markers in gastric cancer using reverse phase protein lysate array  
Jae Ho Cheong (Yonsei University, Korea)

Biomarkers of Breast Cancer from Proteomic Approach  
Dong-Young Noh (Seoul National University, Korea)

**Symposium 4**  
**Antibody Proteomics**  
Mar 29 (Thursday) 17:00-18:30

Organizer&Chair: Jong-Seo Lee (AbClon, Korea),  
Sang Won Kang (Ewha Womans Univ., Korea)

17:00-17:30 Contribution of antibody-based profiling to the Human Proteome Project (HPP)  
Mathias Uhlen (Royal Institute of Technology (KTH), Sweden)

17:30-18:00 The proteomic way to solving the puzzle of Life  
Carl Borrebaeck (Lund University, Sweden)

18:00-18:15 Epitope mapping as basis for generation of therapeutic antibodies  
Johan Rockberg (Royal Institute of Technology (KTH), Sweden)

18:15-18:30 Therapeutic antibody development in the Green Cross  
Se-Ho Kim (Green Cross Corp., Korea)

**Symposium 5**  
**Glycoproteomics**  
Mar 30 (Friday) 09:40-10:50

Organizer&Chair: Kang-Sik Park (Kyung Hee Univ., Korea),  
Hyun Joo An (ChungNam Nat’l Univ., Korea)

09:40-10:10 Mass spectrometry-based strategies for glycoproteomics and glycopeptidomics  
Haojie Lu (Fudan University, China)

10:10-10:30 Ultrasmall gold nanoparticles for highly specific isolation/enrichment of N-linked glycosylated peptides  
Hookeun Lee (Gachon University of Medicine and Science, Korea)

10:30-10:50 Modified Glycans on Glycoproteins Modulate Bioactivity  
Jae-Min Lim (Changwon National University, Korea)
Symposium 6  

**PTMs and Epigenomics**

Mar 30 (Friday) 11:10-12:20

Organizer & Chair: Kwang Pyo Kim (Konkuk University, Korea), Eugene C. Yi (Seoul Nat'l University, Korea)

(SY-6-1) 11:10-11:30 Reference-facilitated validation of phosphopeptides and phospoholibraries  

Garry Corthals (University of Turku & Åbo Akademi University, Finland)

(SY-6-2) 11:30-11:50 Analytical considerations and biomedical applications of cell secretome and tyrosine phosphoproteome analyses  

Pao-Chi Liao (National Cheng Kung University, Taiwan)

(SY-6-3) 11:50-12:05 Urinary proteome analysis of irritable bowel syndrome (IBS) sub-symptom groups  

Young Ah Goo (University of Washington, USA)

(SY-6-4) 12:05-12:20 A protein post-translational modification systems approach to study signaling during myocardial ischemia/reperfusion and cardioprotection: O-linked N-acetylglucosamine, phosphorylation and lysine acetylation  

Benjamin Leo Parker (The University of Sydney, Australia)

Symposium 7  

**Integrated Omics**

Mar 30 (Friday) 14:50-16:00

Organizer & Chair: Je Kyung Seong (Seoul Nat'l University, Korea), Sun Kim (Seoul Nat'l University, Korea)

(SY-7-1) 14:50-15:05 Integrated omics approaches for discovery of body fluid-accessible biomarkers for cancer  

Jau-Song Yu (Chang Gung University, Taiwan)

(SY-7-2) 15:05-15:25 Chemical proteomics based target identification of bioactive small molecules  

Ho Jeong Kwon (Yonsei University, Korea)

(SY-7-3) 15:25-15:40 Bioinformatics toward an understanding of the protein interaction network of the human liver  

Dong Li (Beijing Institute of Radiation Medicine, China)

(SY-7-4) 15:40-16:00 CellFinder: An integrated Stem Cell and Developmental Biology platform and data repository  

Andreas Kurtz (Seoul National University, Korea)
Symposium 8  Chromosome-Centric HPP Initiative

Mar 30 (Friday) 17:00-18:10

Organizer&Chair: Young-Ki Paik (Yonsei Proteome Research Center, Korea), 
Jong Shin Yoo (Korea Basic Science Institute, Korea)

(SY-8-1) 17:00-17:10 Introduction of the International Chromosome-Centric Human Proteome Project
Young-Ki Paik (Yonsei Proteome Research Center, Korea)

(SY-8-2) 17:10-17:30 Novel Variants Revealed by Whole Genome and Transcriptome Sequencing of Korean Individuals
Jong-Il Kim (Seoul National University, Korea)

(SY-8-3) 17:30-17:50 A Proteogenomic Study on Cancer
Sanghyuk Lee (The Korean Bioinformation Center, Korea)

(SY-8-4) 17:50-18:10 Progress on the Chromosome 11-Centric Human Proteome Analysis in Human Brain Tissue
Jong Shin Yoo (Korea Basic Science Institute, Korea)
CORPORATE WORKSHOP

Workshop 1  Waters Korea Limited
March 29 (Thursday) 12:20-13:00

(CW-1) 12:20-13:00  2012 Waters Solution for Proteomics

Workshop 2  SCINCO Co., LTD
March 30 (Friday) 12:20-13:00

(CW-2) 12:20-13:00  Proteomic Solutions -from routine analysis to the most challenging tasks
Zhiqi Hao (Thermo Fisher Scientific, USA)

※ Lunch Box will be given to all of participants in corporate workshop.
EXHIBITION

1. Exhibition Session Information

Date: March 29 (Thursday) – 30 (Friday), 2012
Exhibition Time: 09:00-17:00
Place: Exhibition Hall, Cultural Center, Seoul National University
Deadline for Exhibition and Advertisement in the Abstract Book: March 9th, 2012

2. Booth Rates

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3. Booth Map (tentative)
SOCIAL PROGRAM

Welcome Reception

* Date & Time : March 29(Thu), 2012, 18:40-20:00
* Venue : 2nd Floor of Cultural Center
* Free entrance for all participants
* A glass of wine will be provided to all of participants with delicious foods.
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LG Electronics Inc.

Waters Korea Limited

Yonsei Center for Research Facilities

Yonsei Proteome Research Center

Young In Frontier
CONFERENC E VENUE

Cultural Center, Seoul National University

Seoul National University Map
TRANSPORTATION

- Way by Airplane (Incheon International Airport)

# 1
Take airport limousine bus No. 6003 to the Seoul University at 6A or 12B Exit (1st Floor) and get off at the Seoul National University. The bus takes off from the airport every 12~20 minutes or so. Depending on traffic conditions, the bus ride to the hotel will take 90 minutes.

Incheon International Airport bus/taxi stop map.

- Limousine Bus Cost (Adult) : KRW 9,000
- Bus Stop : Gimpo Int'l Airport - Songjeong Station - Balsan Station - 88 Gymnasium - Hotel Nostalgia - Deungchon Middle School(Hotel GreenWorld) - Gangseo-gu Council - Daeil High School - Mok-dong Sageori - Mok-dong Station - Galsan Elementary School - Guro Industrial Tool Arcade - Guro Station - Guro-gu Office - Daerim Station - Lotte Dept. Store(Gwanak) - Sillim Station - Bongcheon Station - Seoul Nat'l Univ. Station - Gwanak-gu Office - Seoul Nat'l University

# 2
Take taxi at Incheon International Airport directly to Seoul National University.

Fares : approximately 70,000 won (Standard Taxi)
**Way by Seoul Metro Subway**

# Line No.2 (Green Line), Seoul National University Entrance Station (Exit No. 3)

After exiting exit no.3, walk towards the Gwanak-gu Office. There you will find the school shuttle bus and also a regular bus that comes to SNU. The campus shuttles are free of charge. The operation and interval of the buses differ during vacation time and semesters, but is usually in the range of every 5 to 20 minutes. Buses number 5511 and 5513 circulate the campus counter-clockwise, from the main entrance towards the Administration Building next to Cultural Center.