SECOND CIRCULAR, MAR 11TH 2009

KHUPO 9TH ANNUAL INTERNATIONAL PROTEOMICS CONFERENCE

MAR 25 - 27TH, 2009
UNIVERSITY CULTURAL CENTER, SEOUL NATIONAL UNIVERSITY, SEOUL, KOREA

THEME: PROTEOMICS: FROM DISCOVERY TO FUNCTIONS

KOREAN HUMAN PROTEOME ORGANIZATION (KHUPO)
HTTP://WWW.KHUPO.ORG/MEETING/
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GENERAL INFORMATION

CONFERENCE INFORMATION

- Date: Mar 25 (Wednesday) – 27 (Friday), 2009
- Venue: University Cultural Center, Seoul National University, Seoul, KOREA
- THEME: “PROTEOMICS: FROM DISCOVERY TO FUNCTIONS”
- Official Language: English
- Organized by the Korean Human Proteomics Organization (KHUPO)

CONTACT

- The Korean Human Proteome Organization (KHUPO)
  Rm#422, Industry-University Research Center, Yonsei University
  134 Shichon-dong, Sudeamoon-gu, Seoul 120-749 Korea
  Tel: 82-2-393-8328, Fax: 82-2-393-6589, E-mail: admin@khupo.org

URL: http://www.khupo.org/meeting
# IMPORTANT DATES OF KHUPO 2009

<table>
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<td>Distribution of 1st Circular</td>
<td>Jan 15th 2009</td>
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<tr>
<td>Opening of KHUPO 2009 Web-site (Incl. rough programs and information)</td>
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ORGANIZING COMMITTEE

President  Jong Shin Yoo (Korea Basic Science Institute)
Vice President  Jong-Seo Lee (AbFrontier)
                Ho Jeong Kwon (Yonsei Univ.)
                Hoguen Kim (Yonsei Univ.)
                Young Guen Kwon (Yonsei Univ.)
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Secretary of Publication  Jin Han (Inje Univ.)
Secretary of Public Relations  Hyun Sik Kim (Korea Basic Science Institute)
Secretary of Assembly Affairs  Sang Yun Cho (Yonsei Proteome Research Center)
**Scientific and Social Program of KHUPO 2009**

**Week-at-a-Glance**

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<th>Wednesday, Mar 25</th>
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<td><strong>Registration</strong></td>
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<td><strong>Sym-1</strong></td>
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<td><strong>Sym-3</strong></td>
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<td><strong>Sym-5</strong></td>
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PLENARY LECTURERS, SPECIAL INVITED SPEAKERS
AND CHAIR OF HPP-FORUM

* This program can be changed without notice.
* All of plenary lectures will be presented at Hall A.

PL-1     Mining the Cancer Epitheliome for Blood based Biomarkers
Mar 26, 11:00 - 11:30
Sam Hanash
Fred Hutchinson Cancer Research Center, USA
- Inaugural Former President of HUPO (2002~2004)
Supported by Yonsei Proteome Research Center / Biomedical Proteome Research Center (A030003)

PL-2     Strategies for Proteomic Profiling of Cancer Specimens and Plasma in Mouse Models of Human Cancers: Identification of Novel Alternative Splice Isoforms as a New Class of Biomarker Candidates
Mar 26, 11:30 - 12:00
Gilbert S. Omenn
University of Michigan, USA
- Vice President of HUPO, Chair of Human Plasma Proteome Project
Supported by Yonsei Proteome Research Center / Biomedical Proteome Research Center (A030003) and World Class University Project (Yonsei University)

PL-3     The Nitroproteome of the Human Pituitary
Mar 26, 17:30 - 18:00
Dominic M. Desiderio
The University of Tennessee Health Science Center, USA
- Professor, Dept. of Neurology
Supported by Korea Basic Science Institute

PL-4     Proteomic, Metabolomic and Functional Investigations of Nitrite-Induced Cardioprotection
Mar 27, 09:30 – 10:00

Catherine Costello
Boston University, USA
- Director, Mass Spectrometry Resources and Cardiovascular Proteomics Center
- Senior Vice President of HUPO

Supported by Seoul Nat'l University

**PL-5** The Dynamic Proteome: Mass Spectrometry Technologies to Study Post-Translational Modifications

Mar 27, 10:00 – 10:30

Ole Noerregaard Jensen
University of Southern Denmark, Denmark
- Lundbeck Foundation Professor, Vice-dean Biotechnology
- 'Member-at-large' of HUPO, Executive Committee

Supported by Korea Research Institute of Bioscience & Biotechnology

**PL-6** Protein Interactions and Functional Pathways in Bacteria, Yeast, and Mice

Mar 27, 11:30 – 12:00

Jack Greenblatt
University of Toronto, Canada
- Professor, Dept. of Medical Genetics and Microbiology

Supported by Korea Basic Science Institute

**PL-7** A Human Protein Atlas created using antibody-based proteomics

Mar 27, 12:00 – 12:30

Mathias Uhlen
Royal Institute of Technology (KTH), Sweden
- Chair of Human Antibody Initiative
- 'Member-at-large' of HUPO, Executive Committee

Supported by YoungIn-frontier

**PL-8** Annotating the Human Proteome

Mar 27, 15:55 – 16:25
PL – 9 A Human Proteome Project and the Protein Microscope
Mar 27, 16:25 – 16:55
John J.M. Bergeron
McGill University, Canada
- 2nd President of HUPO (2005~2006)
Supported by Yonsei Proteome Research Center / Biomedical Proteome Research Center (A030003)

[Human Proteome Project – Seoul Forum, 2009]
Mar 27, 16:55 – 18:30 (Conference Room A)
Young-Ki Paik
Yonsei Proteome Research Center, Yonsei Univ., Korea
- 4th President of HUPO (2009~2010)

[Keynote Presentations in Symposium – 2]
NCI’s CPTC - Advancing Protein Science for Personalized Medicine
Mar 26, 15:40 – 16:05 (Conference Room A)
Henry Rodriguez
Clinical Proteomic Technologies for Cancer, National Cancer Institute, USA
- Director of CPTC
Supported by Functional Proteomics Center, Korea

Key methodological elements for a human proteome project: Quantitative proteomics, High quality protein interaction and annotation databases
Mar 26, 16:05 – 16:25 (Conference Room A)
Pierre Legrain  
CEA (the French Atomic Energy Commission), France  
- Secretary General of HUPO  
Supported by Yonsei University

[Keynote Presentation in Symposium – 3 and KFBS 2009]

Proteomics by the Numbers: the use of Bioinformatics to Analyze, Understand and Predict Proteomics Experiments

Mar 26, 15:40 – 16:10   (Conference Room B)

Lennart Martens  
EMBL-EBI, UK  
- Group Coordinator, PRIDE team at EBI  
Supported by Korea Forum for Bioinformation Standardization, KOREA
SCIENTIFIC AND SOCIAL PROGRAM – MAR 25TH (WEDNESDAY)

* This program can be changed without notice.

[Education Session (14:00-18:00)]
Conference Room A
Chair: In-Cheol Kang (Hoseo University, Korea)

Part I: Introduction and Current Trends in Proteomics

ES-1-1  14:00 – 15:00
Introduction and Current Trends of 2-DE based Proteomics
Eun-Young Lee (Yonsei Proteome Research Center, Yonsei University, Korea)

ES-1-2  15:00 – 16:00
Introduction and Current Trends of non 2-DE based Proteomics
Je Hyun Baek (Functional Proteomics Center, KIST, Korea)

Part II: Applications of Proteomics

What to do and how to do for publishing my papers with proteomics data

ES-2-1  16:00 – 17:00
Analysis of Plasma Proteome
Chan Wha Kim (Korea University, Korea)

ES-2-2  17:00 – 18:00
From the Experiment Design to the Writing of a Paper
Tai-Youn Rhim (Hanyang University, Korea)

[HUPO 2009 Executive Committee Retreat Workshop & Global Proteome Forum (09:00 – 21:00)]
– In commemoration of 10th Anniversary of YPRC –

In Hoam Faculty House

Chaired by Prof. Young-Ki Paik, HUPO President

Supported by Biomedical Proteome Research Center (A030003) and Yonsei Proteome Research Center
**Proteomics: From Discovery to Function**

**[Symposium I (09:00-10:00)]: Clinical Proteomics**  
**Conference Room A**  
Chair: Choon Sik Park (Soon Chun Hyang University, Korea)

- **SY-1-1  09:00 – 09:20**  
  Proteomic Analysis of Microvesicles Derived from Colorectal Cancer Ascites  
  Yong Song Gho (Pohang University of Science and Technology, Korea)

- **SY-1-2  09:20 – 09:40**  
  14-3-3 gamma is Stimulated by IL-3 and Promotes Cell Proliferation and Oncogenicity  
  Kwang-Hyun Baek (CHA University / CHA General Hospital, Korea)

- **SY-1-3  09:40 – 10:00**  
  Identification of System Biology-based Biomarker Candidates for IgAN and TBMN using Human Urinary Exosomes  
  Moon-Chang Baek (Kyungpook National University, Korea)

**[Poster Session I & Exhibition I (10:00-11:00)]**

- **[PL-1,2 (11:00-12:00)]**  
  **Conference Room A**  
  Chair: Kyung-Soo Hahm (Chosun University, Korea)

  - **PL-1  11:00 – 11:30**  
    Mining the cancer epitheliome for blood based biomarkers  
    Sam Hanash (Fred Hutchinson Cancer Research Center, USA)

  - **PL-2  11:30 – 12:00**  
    Strategies for Proteomic Profiling of Cancer Specimens and Plasma in Mouse Models of Human Cancers: Identification of Novel Alternative Splice Isoforms as a New Class of Biomarker Candidates  
    Gil Omenn (Univ. of Michigan, USA)

**[Exhibition II (12:00-13:30) and CW-1,2 (12:15-13:10)]**  
* Lunch Box will be given to all of participants in cooperate workshop.

- **CW-1  12:15 – 13:10**  
  Conference Room A  
  AB SCIEX QTRAP® 5500 System: Above and beyond the extraordinary  
  Byunghee Shin (Applied Biosystems Korea & LSK)
Accurate Mass Analysis of Natural Product by LCMS-IT-TOF (For Post Translational Modification)
Jae Yong Lee (Dongil-Shimadzu Corp.)

[The 21c Frontier R&D in Proteomics Dedicated Session by FPC (13:30-15:00)]
Conference Room A
Chair: Myeong-Hee Yu (Functional Proteomics Center, KIST, Korea)

Supported by Functional Proteomics Center

DS-1-1  13:30 – 14:00
An Integrative Platform for Protein Identification, Quantitation, and Elucidation with Seamless and Fast Data Processing
Myeong-Hee Yu (Functional Proteomics Center, KIST, Korea)

DS-1-2  14:00 – 14:20
An Integrative Approach for Understanding Mitochondrial Diseases using Novel Proteomic Profiling Methods
Daehee Hwang (Pohang University of Science and Technology, Korea)

DS-1-3  14:20 – 14:40
Discovery of Biomarkers for Colon and Breast Cancers
Cheolju Lee (Korea Institute of Science Technology, Korea)

DS-1-4  14:40 – 15:00
Ligand Proteomics with Library and Profiling
Sung Ho Ryu (Pohang University of Science and Technology, Korea)

[KFBS – 2009 (13:30-15:00)]: Informatics for Genomics
Conference Room B
Chair: Young Joo Kim (Korea Research Institute of Bioscience & Biotechnology)

Supported by Korea Forum for Bio-informatics Standardization

SA-1-1  13:30 – 14:00
The Increasing Sequencing and Centralizing Computing
Guoqing Li (Beijing Genomics Institute in Shenzhen, China)

SA-1-2  14:00 – 14:30
Integration Efforts of the Bioinformatics Databases in Japan
Toshiaki Katayama (Univ. of Tokyo, Japan)

SA-1-3  14:30 – 15:00
Research Database System at Center for Genome Science, KNIIH
Jong Phil Choi (Korea National Institute of Health, Korea)
Toward Information Standardization in Agricultural Genetic Resources and Genomics

Jang Ho Hahn (Korean Agricultural Culture Collection, Korea)

**[KRBIB Forum / Symposium II (15:40-17:20)]: Biomarker Proteomics**
**Conference Room A**
Chair: TBA (Korea Research Institute of Bioscience & Biotechnology)

**Supported by Korea Research Institute of Bioscience and Biotechnology**

**SY-2-1** 15:40 – 16:05
NCI's CPTC - Advancing Protein Science for Personalized Medicine
*Henry Rodriguez (National Cancer Institute, USA)*

**SY-2-2** 16:05 – 16:25
Key Methodological Elements for a Human Proteome Project: Quantitative Proteomics, High Quality Protein Interaction and Annotation Databases
*Pierre Legrain (CEA, France)*

**SY-2-3** 16:25 – 16:45
Quantification of Post-translationally Modified Peptides of Bovine \( \alpha \)-Crystallin Using Tandem Mass Tags and Electron Transfer Dissociation
*Vlad Zabroskov (Thermo Finnigan, USA)*

**SY-2-4** 16:45 – 17:00
Verification of Biomarkers for Diabetic Complications by Quantitative Proteomics
*Youngsoo Kim (Seoul National University, Korea)*

**SY-2-5** 17:00 – 17:15
Discovery in BMP2-induced Cellular Transdifferentiation Using Two-stage/Double Technique-Hybrid Strategy
*Je-Yoel Cho (Kyungpook National University, Korea)*

**[KFBS - 2009 / Symposium III (15:40-17:20)]: Proteome Informatics and Standardization**
**Conference Room A**
Chair: Sang Yun Cho (Yonsei Proteome Research Center, Korea)

**Supported by Korea Forum for Bio-informatics Standardization**

**SY-3-1** 15:40 – 16:10
Proteomics by the Numbers: the Use of Bioinformatics to Analyze, Understand and Predict Proteomics Experiments
*Lennart Martens (EMBL-EBI, UK)*

**SY-3-2** 16:10 – 16:40
Standards and Databases for Biological Network Modeling
*Hsuan-Cheng Huang (National Yang-Ming University, ROC)*
Integration and Standardization for Korean Biological Data at KOBIC
Byungwook Lee (Korean BioInformation Center, Korea)

Lessons learned in the International Collaboration for the Standardization of Biological Information Resources
Hideaki Sugawara (National Institute of Genetics, Japan)

Korean Forum for Bioinformation Standardization
Kyung-Hoon Kwon (Korea Basic Science Institute, Korea)

[PL-3 (17:30-18:00)]
Conference Room A
Chair: Hun-Taeg Chung (Wonkwang University, Korea)

The Nitroproteome of the Human Pituitary
Dominic M. Desiderio (The Univ. of Tennessee, USA)

[KHUPO Opening Ceremony & General Assembly (18:00-18:30)]
Congratulatory Messages from Former Presidents of HUPO (Sam Hanash, John J.M. Bergeron, Rolf Apweiler) and President of HUPO (Young-Ki Paik)

[Welcome Reception (Mar 26, 18:30-19:40)]
2nd Floor of Cultural Center
Message from President of KHUPO (Jong-Shin Yoo)
Congratulatory Messages from HUPO President and Distinguished Invited Speakers

A glass of wine and beer will be provided to all of participants with delicious foods. And bingo game will be performed at welcome reception. Small rewards will be given to the first and second winner of this game.
**SCIENTIFIC AND SOCIAL PROGRAM – MAR 27TH (FRIDAY)**

*This program can be changed without notice.

[Symposium IV (08:30-09:25)]: Post-Translational Modifications  
Conference Room A  
Chair: Seong Eon Ryu (Korea Research Institute of Bioscience & Biotechnology)

SY-4-1  08:30 – 08:48  
Stoichiometry of Phosphorylation Sites in Protein Complexes by iTRAQ Labeling and MALDI TOF/TOF Mass Spectrometry  
_Hoo-Keun Lee (Lee Gil Ya Cancer and Diabetes Institute, Gachon University of Medicine and Science, Korea)_

SY-4-2  08:48 – 09:06  
Hydroxylational Modification of Hypoxia-Inducible Factor-1α by Using Oxygen and α-Ketoglutarate  
_Hyun-Sung Park (Univ. of Seoul, Korea)_

SY-4-3  09:06 – 09:24  
Glycomics-based Functional Study on Cancer Progression in Colon Cancer as exemplified by TIMP-1 and PTPk  
_Yong-Sam Kim (Korea Research Institute of Bioscience & Biotechnology, Korea)_

[Symposium V (08:30-09:25)]: Metabolomics  
Conference Room B  
Chair: Bong Chul Chung (Korea Institute of Science and Technology) and Geum-Sook Hwang (Korea Basic Science Institute)

SY-5-1  08:30 – 08:48  
Hair Metabolomics in Biomarker Discovery  
_Man Ho Choi (Korea Institute of Science Technology, Korea)_

SY-5-2  08:48 – 09:06  
LC/MS based Metabolome Library and its Application for Functional Metabolomics  
_Choong-Hwan Lee (Konkuk University, Korea)_

SY-5-3  09:06 – 09:24  
Application of Metabolic Profiling using NMR  
_Geum-Sook Hwang (Korea Basic Science Institute, Korea)_

[PL-4,5 (09:30-10:30)]  
Conference Room A  
Chair: Young Mok Park (Korea Basic Science Institute)
PL-4  09:30-10:00
Proteomic, Metabolomic and Functional Investigations of Nitrite-Induced Cardioprotection
Catherine Costello (Boston University, USA)

PL-5  10:00 – 10:30
The Dynamic Proteome: Mass Spectrometry Technologies to Study Post-translational Modifications
Ole Noerregaard Jensen (Univ. of Southern Denmark, Denmark)

[Poster Session II and Exhibition III (10:30-11:30)]

[PL-6,7 (11:30-12:30)]
Conference Room A
Chair: Moon Hi Han (Proteogen Inc., Korea)

PL-6  11:30 – 12:00
Protein interactions and functional pathways in bacteria, yeast, and mice
Jack Greenblat (Univ. of Toronto, Canada)

PL-7  12:00 – 12:30
A Human Protein Atlas created using antibody-based proteomics
Mathias Uhlen (Royal Institute of Technology (KTH), Sweden)

[Exhibition IV (12:30-14:00) and CW-3,4 (12:45-13:40)]
* Lunch Box will be given to all of participants in cooperate workshop.

CW-3  12:45 – 13:40  Conference Room A
Targeted MRM-Based Quantitative Proteomics and Biomarker Verification using Waters VerifyE solution
TBA (Waters)

CW-4  12:45 – 13:40  Conference Room B
Optimization Strategies of LC-MS/MS Front End Separation to Achieve High Resolution, High Selectivity and High Throughput
Angelika Koepf (Asia Pacific Technical Center, Dionex Corporation, Thailand)

[Symposium VI (14:00-15:40]): Bridge between Proteomics and other Omics
Conference Room A
Chair: Young-Joon Kim (Yonsei University, Korea)

SY-6-1  14:00 – 14:25
Variome Analysis of Korean Genome using Next Generation Sequencers
Jong Bhak (Korean BioInformation Center, Korea)

SY-6-2  14:25 – 14:50
Proteomic Analysis of the Mxi1-deficient Mouse: ApoA1 Reduction can induce the Inflammation and Renal Fibrosis in Polycystic Kidney
Jong-Hoon Park (Sookmyung Women’s University, Korea)
SY-6-3 14:50 – 15:15
TBA
Young-Joon Kim (Yonsei University, Korea)

SY-6-4 15:15 – 15:40
An Integrative and Systems Bioinformatics Approach for Interpreting Omics data
Sanghyuk Lee (Ewah Womans University, Korea)

[Symposium VII (14:00-15:40)]: Functional Proteomics & System Biology
Conference Room B
Chair: In Seok Lee (Yonsei University)

SY-7-1 14:00 – 14:30
The signaling and transcription in the wild-type and tamoxifen-resistant breast cancer cells
Takeshi Nagashima (RIKEN, Japan)

SY-7-2 14:30 – 15:00
Complex Genetic Network of Leaf Senescence and Age-associated Cell Death: Trifurcate feed-forward Regulation involving a NAC Transcription Factor, MIR164, and ein2 in Arabidopsis
Hong Gil Nam (Pohang Univ. of Science and Technology, Korea)

SY-7-3 15:00 – 15:20
Protein Complexes and their Role in Tumor Progression and Stem Cell Differentiation
Kyunghhee Byun (Lee Gil Ya Cancer and Diabetes Institute, Gachon University of Medicine and Science, Korea)

SY-7-4 15:20 – 15:40
An Integrated Functional Gene Network Predicts Tissue-specific Disease Phenotypes of Human
In Seok Lee (Yonsei University, Korea)

[PL-8,9 (15:55-16:55)]
Conference Room A
Chair: Jong Shin Yoo (Korea Basic Science Institute)

PL-8 15:55 – 16:25
Annotating the Human Proteome
Rolf Apweiler (EMBL-EBI, UK)

PL-9 16:25 – 16:55
A Human Proteome Project and the Protein Microscope
John Bergeron (McGill University, Canada)

[HPP Forum (16:55-18:30): Visions of Human Proteome Project]
Conference Room A
Chair: Young-Ki Paik (HUPO President, Yonsei Proteome Research Center, Yonsei University, Korea)
Panels: Rolf Apweiler, John J.M. Bergeron, Catherine Costello, Sam Hanash, Pierre Legrain, Gil S. Omenn, Young Mok Park, Henry Rodriguez, Mathias Uhlen, and Alexander Archakov
(The list of panels can be updated)

[Closing Remark (18:30-19:00)]

- Closing Remarks from Secretary General and President (Bong-Hee Lee and Jong-Shin Yoo)
- Commencement ceremony of Young Scientist Awards and other Awards
- Lottery events to participants who have certain signed pass
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Institutions

Functional Proteomics Center (FPC), Korea Basic Science Institute (KBSI), Korea Forum for Bioinformation Standardization (KFBS), Korea Research Institute of Bioscience and Biotechnology (KRIBB), Yonsei Proteome Research Center (YPRC) and Biomedical Proteome Research Center (BPRC), Human Proteome Organization (HUPO)

University

Gachon University of Medicine and Science, Seoul National University, Yonsei University
FLOOR PLAN OF KHUPO 2009

Venue: University Cultural Center, Seoul Nat’l Univ., Seoul, Korea

[First floor]: Hall A and B, Exhibition Hall and internet lounge

[Second floor]: Poster Area and Additional Exhibitions
TRANSPORTATION AND MAPS

>> Bus / Taxi Stops (Incheon International Airport)

※ You can get additional information about Incheon international airport in this websites.  
(http://www.airport.or.kr/)

>> Subway Map of Seoul
>> How to get!

▶ Way #1
- Take airport limousine bus # 603 from In chon Airport and get off at Seoul Nat'I University Terminal.

<table>
<thead>
<tr>
<th>Direction</th>
<th>Airport - Seoul Nat'I University</th>
</tr>
</thead>
<tbody>
<tr>
<td>Route</td>
<td>SeoulNat’IUniv.[603]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bus type</th>
<th>Limousine (Standard)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interval</td>
<td>15~20</td>
</tr>
<tr>
<td>Travelling Time</td>
<td>90 min</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>First Bus</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Airport</td>
<td>04:40</td>
</tr>
<tr>
<td>Seoul Nat'I University</td>
<td>05:00</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Last Bus</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Airport</td>
<td>20:00</td>
</tr>
<tr>
<td>Seoul Nat'I University</td>
<td>22:45</td>
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<table>
<thead>
<tr>
<th>Fees</th>
<th>7,500(Gimpo4,500)</th>
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</thead>
<tbody>
<tr>
<td>Vendor Name</td>
<td>Airport Limousine</td>
</tr>
<tr>
<td>Contact</td>
<td>02-2664-9898</td>
</tr>
</tbody>
</table>

▶ Way #2
- Take taxi at Inchon airport directly to Seoul National University.
- Fare: approximately 60,000 won
Map of Venue

- Kwanak Campus Map (Seoul National University)

- University Cultural Center, Seoul National University