

KHUPO 19th ANNUAL INTERNATIONAL PROTEOMICS CONFERENCE

'Proteomics for Precision Medicine'

March 28 (Thu) – 29 (Fri), 2019

5F, Global Education Center for Engineers,

Seoul National University, Seoul, Korea

The Korean Human Proteome Organization

WELCOME MESSAGE

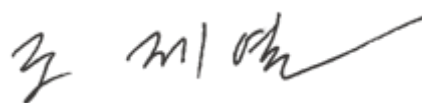
Dear colleagues,

We are delighted to announce that KHUPO's 19th Annual International Proteomics Conference is scheduled to be held March 28–29, 2019 at Global Education Center for Engineers located in Seoul National University. On behalf of the Organizing Committee, I cordially welcome you to this wonderful event.

The theme of this year's conference is "Proteomics for Precision Medicine". Four plenary lectures and ten symposia are planned. The symposia will cover various subjects including two clinical proteomics sessions. We have also reserved one session for presentations by scientists in their early career to encourage the participation of the young talents in the field. As KHUPO is entering its 19th year and chosen to host AOHUPO 2020, our annual conference will continue to provide an excellent platform for sharing the ideas and building friendship among the participants.

I look forward to greeting you all in Seoul at the 19th Annual International Proteomics Conference.

Best Wishes,



Je-Yoel Cho, DVM, PhD

President, The Korean Human Proteome Organization

Professor, Department of Biochemistry, College of Veterinary Medicine

Seoul National University





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GENERAL INFORMATION

Title	19 th Annual International Proteomics Conference
Theme	Proteomics for Precision Medicine
Date	March 28 (Thu) – 29 (Fri), 2019
Venue	5F, Global Education Center for Engineers, Seoul National University
Program	4 Plenary Lectures, 10 Symposia, Poster Session, Reception etc.
Industrial Events	Exhibition, Exhibition Tour, etc.
Expected Participants	300 Participants (over 8 countries)
Organized by	The Korean Human Proteome Organization
Official Language	English
Website	http://2019.khupo.org

PLENARY SPEAKERS

			
Stephen Pennington (University College Dublin)	David James (University of Sydney)	Harald Mischak (Mosaiques Diagnostics)	Jong Shin Yoo (Korea Basic Science Institute)

SYMPOSIA

Protein Modification	Young Scientists
Proteins in Pathology	Exploring the Unknown Proteins
Biomarkers for Disease	Antibody & Biologics
Omics Research in Aging	Multi-omics
Clinical Proteomics	Proteogenomics

PROGRAM AT A GLANCE

	March 28 (Thu)	March 29 (Fri)
8:00		
9:00	Registration	
	Opening Ceremony(9:30-9:40)	
10:00	SYM-1(9:40-10:50) "Protein Modification"	SYM-6(10:00-10:50) "Young Scientists"
	Break 20 min	Break 20 min
11:00	PL-1(11:10-11:50) by Stephen Pennington	PL-3(11:10-11:50) by Harald Mischak
12:00	Lunch(11:50-12:40)	Lunch(11:50-12:40)
13:00	Exhibition Tour&Poster(12:40-14:00)	Exhibition Tour&Poster(12:40-14:00)
14:00	SYM-2(14:00-15:10) "Proteins in Pathology"	SYM-3(14:00-15:10) "Biomarkers for Diseases"
		SYM-7(14:00-15:10) "Exploring the Unknown Proteins"
		SYM-8(14:00-15:10) "Antibody & Biologics"
15:00	Break 20 min	Break 20 min
16:00	SYM-4(15:30-16:40) "Omics Research in Aging"	SYM-5(15:30-16:40) "Clinical Proteomics"
		SYM-9(15:30-16:40) "Multi-omics"
		SYM-10(15:30-16:40) "Proteogenomics"
	Break 20 min	Break 20 min
17:00	PL-2(17:00-17:40) by David James	PL-4(17:00-17:40) by Jong Shin Yoo
		Awards&Closing(17:40-)
18:00	General Assembly(17:40-)	
	Reception(18:30-)	

SCIENTIFIC PROGRAM

March 28 (Thu), 2019

8:30-	Registration	
9:30-9:40	Opening Ceremony	
SYM-1 Protein Modification (Chair: Hyun Joo An, Chungnam National University)		
Room 520		
9:40-10:03	Brain somatic mutations in neurological disorders Jeong Ho Lee (KAIST)	
10:03-10:26	Monitoring of Non-human Glycan Motif in Biotherapeutics for Immunogenicity Prediction Unyong Kim (GLYCAN Co., Ltd.)	
10:26-10:49	Defining the molecular mechanism of the UBA6-USE1 in lung cancer Peter Chang Whan Lee (University of Ulsan College of Medicine, ASAN Medical Center)	
10:50-11:10	Break	
PL-1 (Chair: Je-Yoel Cho, Seoul National University)		
Room 520		
11:10-11:50	Development and Delivery Advanced Protein Biomarker Tests for an Era of Precision Medicine Stephen Pennington (University College Dublin)	
11:50-12:40	Lunch	
Exhibition Tour & Poster		
12:40-14:00		
	SYM-2 Proteins in Pathology (Chair: Youngsoo Kim, Seoul National University College of Medicine, Han Suk Ryu, Seoul National University Hospital) Room 520	SYM-3 Biomarkers for Diseases (Chair: Sang Hoon Song, Seoul National University Hospital) Room 517
14:00-14:17	Prediction of response to PD-1 blockade by immune cell profiling. (Machine learning analysis of multiplex IHC images)	Discovery and validation of cancer biomarkers by DIA and targeted proteomics

	Woo Ho Kim (Seoul National University College of Medicine)	Sumio Ohtsuki (Kumamoto University)
14:17-14:34	Tyrosine aminoacyl-tRNA synthetase sensitize breast cancer to the combined chemotherapeutic regimen Han Suk Ryu (Seoul National University Hospital)	Exosomes are Tiny vesicle but Huge impact on cancer biomarker study Jisook Park (Samsung Medical Center, Sungkyunkwan University School of Medicine)
14:34-14:51	Improved Quantitation of HER2 protein by Multiple Reaction Monitoring Mass Spectrometry in Formalin-Fixed Paraffin-Embedded (FFPE) Breast Cancer Tissue Youngsoo Kim (Seoul National University College of Medicine)	Discovery of blood biomarker for major mental illness by high-throughput plasma proteome profiling Dohyun Han (Seoul National University Hospital)
14:51-15:08	In-depth Serum Proteomics Reveals Biomarkers of Psoriasis Severity and Response to Traditional Chinese Medicine Xiaobo Yu (Beijing Proteome Research Center)	Serum Trace Elements and Their Associations with Breast Cancer Subgroups in Korean Breast Cancer Patients Rihwa Choi (Green Cross Laboratories)
15:10-15:30	Break	
	SYM-4 Omics Research in Aging (Chair: Je Kyung Seong, Seoul National University) Room 520	SYM-5 Clinical Proteomics (Chair: Hyewon Chung, Konkuk University School of Medicine, Konkuk University Medical Center) Room 517
15:30-15:47	Developmental proteomics: the importance of age specific differences in the human plasma proteome Vera Ignjatovic (Murdoch Children's Research Institute)	Clinical Proteomic Study and Diagnostic Application for Antibiotic Resistant Bacteria Using High-End to Low-End Mass Spectrometry Je-Hyun Baek (Seegene Medical Foundation)
15:47-16:04	Effect of aging on lipidomic changes in mouse serum, kidney, and heart by nanoflow UHPLC-ESI-MS/MS	Clinical proteomics, divergence and convergence of mass spectrometry

	Myeong Hee Moon (Yonsei University)	Kyunggon Kim (Asan Medical Center/University of Ulsan)
16:04-16:21	The role of <i>Dlk1-Dio3</i> miRNA cluster in muscle aging Kwang-Pyo Lee (Korea Research Institute of Bioscience & Biotechnology)	Quantitative proteomic analysis of aqueous humor from patients with age-related macular degeneration Hyewon Chung (Konkuk University School of Medicine, Konkuk University Medical Center)
16:21-16:38	Proteomic analysis of an Alzheimer's-in-a-dish model Young Hye Kim (Korea Basic Science Institute)	In-depth proteomic analysis of pleural effusion for lung cancer biomarker discovery Chia-Jung Yu (Chang Gung University)
16:40-17:00	Break	
PL-2 (Chair: Je Kyung Seong, Seoul National University)		
Room 520		
17:00-17:40	Global redox proteome and phosphoproteome analysis reveals novel mode of Akt regulation David James (University of Sydney)	
17:40-	General Assembly	
		Room 520
18:30-	Reception	
		1F BBQ cafe

March 29 (Fri), 2019

SYM-6 Young Scientists (Chair: Jun Won Choi, Korea Institute of Science and Technology)		
Room 520		
10:00-10:10	Proteomics approach to discover the urinary protein biomarkers to predict kidney function decline in type 2 diabetes Hee-Sung Ahn (Asan Medical Center)	
10:10-10:20	Raft-localized CD147 with proximal proteins confers drug-resistance phenotype in cancer stemness Sohyun Kim (Seoul National University)	

10:20-10:30	iNrich, a rapid and robust method to enrich N-terminal proteome in a highly multiplexable platform Shinyeong Ju (Korea Institute of Science and Technology)	
10:30-10:40	Novel protein markers for both human and canine breast tumors in plasma Hyung-Min Park (Seoul National University)	
10:40-10:50	N-Glycoprotein Biomarkers for Detection of Hepatocellular Carcinoma by Parallel Reaction Monitoring Kwang Hoe Kim (Korea Basic Science Institute)	
10:50-11:10	Break	
PL-3 (Chair: Youngsoo Kim, Seoul National University College of Medicine)		
Room 520		
11:10-11:50	Application of proteomics in clinical diagnosis and patient management: from discovery to actual routine implementation Harald Mischak (Mosaiques Diagnostics)	
11:50-12:40	Lunch	
Exhibition Tour & Poster		
12:40-14:00		
	SYM-7 Exploring the Unknown Proteins (Chair: Ho Jeong Kwon, Yonsei University) Room 520	SYM-8 Antibody & Biologics (Chair: Junho Chung, Seoul National University College of Medicine) Room 517
14:00-14:23	Exploring the Function of Dark Proteome for Biomedical Applications Young-Ki Paik (Yonsei University)	14:00-14:17 Fully international system of units-traceable protein quantification: what we can really measure Ji-Seon Jeong (Korea Research Institute of Standards and Science)
14:23-14:46	Identification of Missing Proteins in Human Olfactory Epithelial Tissue by Liquid	14:17-14:34 Development of a Novel Internalizing Human Antibody

	Chromatography-Tandem Mass Spectrometry Heeyoun Hwang (Korea Basic Science Institute)		Targeting TSPAN8-Expressing Epithelial Ovarian Cancer Sukmook Lee (Kookmin University)
14:46-15:09	What we can learn from biomarker study; priori probability, patient-derived cancer model, and proteogenomics Tadashi Kondo (National Cancer Center)	14:34-14:51	Current status and challenges of 'antibody-drug conjugate(ADC)' for anti-cancer therapy Dae Hee Kim (Scripps Korea Antibody Institute)
		14:51-15:08	Antibodyome analysis using proteome microarrays Chien-Sheng Chen (National Cheng Kung University)
15:10-15:30	Break		
	SYM-9 Multi-omics (Chair: Eugene C. Yi, Seoul National University) Room 520	SYM-10 Proteogenomics (Chair: Sang Myung Woo, National Cancer Center) Room 517	
15:30-15:47	Multi-omics of the myocardium during ischemia / reperfusion injury Stuart Cordwell (The University of Sydney)		Proteomics analysis of mitotic chromosomes with using nano Random Forest Shinya Ohta (Kochi University)
15:47-16:04	Metabolic signatures of steroids in clinical endocrinology Man Ho Choi (Korea Institute of Science and Technology)		Proteogenomic data sharing of National Cancer Center Korea Dongwan Hong (National Cancer Center)
16:04-16:21	Multi-Omics analysis of pancreatic ductal adenocarcinomas		Proteogenomics: the path to precision medicine in cholangiocarcinoma Sang Myung Woo (National Cancer Center)

	Min-Sik Kim (Daegu Gyeongbuk Institute of Science and Technology)	
16:21-16:38	Multiomics-Engaging colors Sureyya Ozcan (Middle East Technical University)	Proteogenomic Analysis of a Model Diatom Feng Ge (University of Chinese Academy of Sciences)
16:40-17:00	Break	
PL-4 (Chair: Jin Young Kim, Korea Basic Science Institute)		
Room 520		
17:00-17:40	Glycoproteomics and Clinical Applications by Mass Spectrometry Jong Shin Yoo (Korea Basic Science Institute)	
17:40-	Awards & Closing	
	Room 520	

POSTER SESSION

All poster presentations must be in English. Presenters are responsible for setting up their displays, being present during the entire scheduled poster session, and removing their displays at the conclusion of the poster session. On your assigned day, please plan to spend the entire session at your poster for questions and discussion. Each poster should be allocated on a poster board corresponding to its abstract number.

※ Posters are displayed for entire day, although presenters are only required to be present at their board from 12:40 to 14:00 on March 29 (Fri).

※ Poster Size 90cm wide x 120cm high (Board Size 95cm wide x 165cm high)

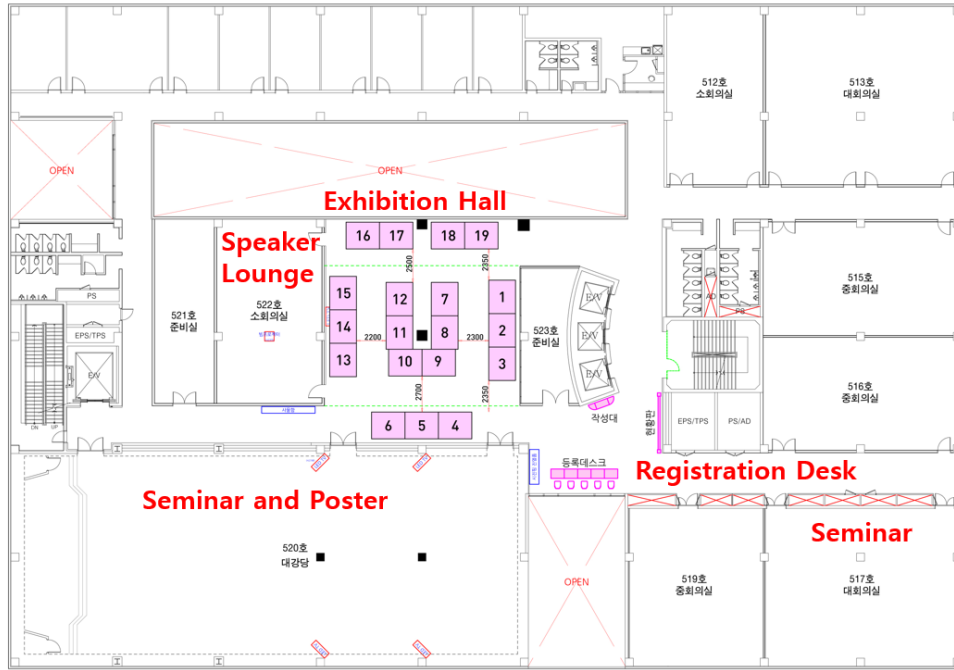
※ Poster Set-up March 28 (Thu) 8:00-11:00, Poster Session March 29 (Fri) 12:40-14:00, Poster Removal March 29 (Fri) after 18:00

Category
Protein Modification
Proteins in Pathology
Biomarkers for Diseases
Omics Research in Aging
Clinical Proteomics
Young Scientists
Exploring the Unknown Proteins
Antibody & Biologics
Multi-omics
Proteogenomics

Exhibition Information

Date & Time: March 28 (Thu) – 29 (Fri) 9:00-18:00

Place: 5F Lobby, Global Education Center for Engineers, Seoul National University



Booth No.

No.	Exhibitor	No.	Exhibitor
1	SMA analytical	11	Shimadzu Scientific Korea Corp.
2	Younginfrontier	12	Agilent Technologies
3	Kim & Friends Inc.,	13	CHEMBRIDGE
4	Waters Korea Limited	14	Korea Basic Science Institute
5		15	Korea Centers for Disease Control and Prevention
6	AB SCIEX Korea Pte. Ltd.	16	PhileKorea Technology, Inc
7	Bio-Medical Science Co., Ltd.	17	SARTORIUS KOREA BIOTECH Co, Ltd
8	SeouLin Bioscience	18	Bruker Korea, SCINCO
9	ANYGEN CO., LTD.	19	
10	Binaree, Inc.		

Exhibition Tour

Time	Exhibitor	Time	Exhibitor
12:40-12:45	SMA analytical	13:15-13:20	Binaree, Inc.
12:45-12:50	Younginfrontier	13:20-13:25	Shimadzu Scientific Korea Corp.
12:50-12:55	Waters Korea Limited	13:25-13:30	Korea Centers for Disease Control and Prevention
12:55-13:00	AB SCIEX Korea Pte. Ltd.	13:30-13:35	PhileKorea Technology, Inc
13:00-13:05	Bio-Medical Science Co., Ltd.	13:35-13:40	SARTORIUS KOREA BIOTECH Co, Ltd
13:05-13:10	SeouLin Bioscience	13:40-13:45	Bruker Korea, SCINCO
13:10-13:15	ANYGEN CO., LTD.		

VENUE

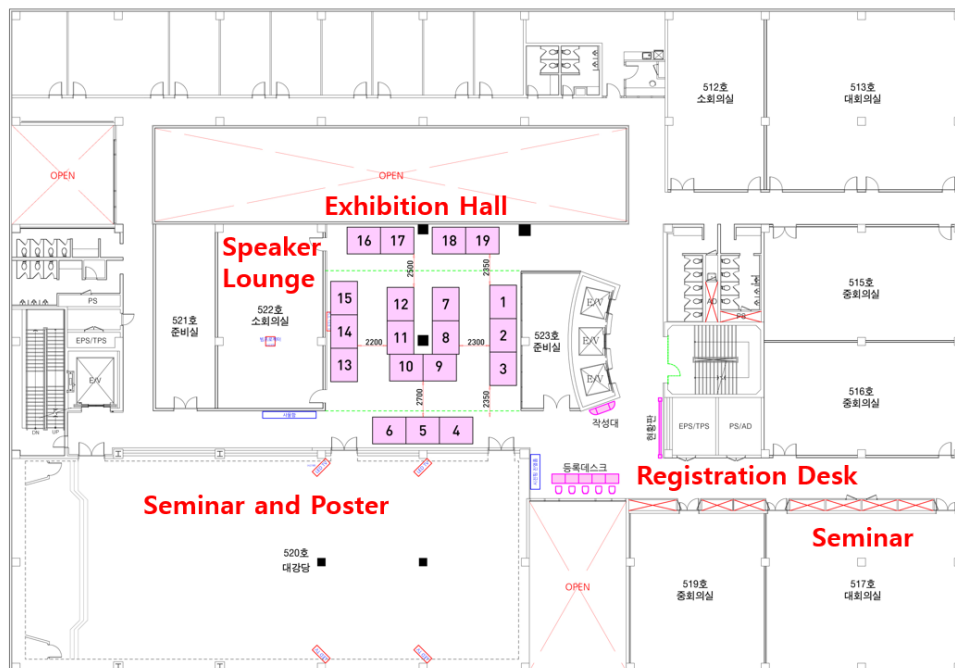


5F, Global Education Center for Engineers (GECE, building no. 38), Seoul National University

Address: 1 Gwanak-ro, Gwanak-gu, Seoul, 08826, Korea

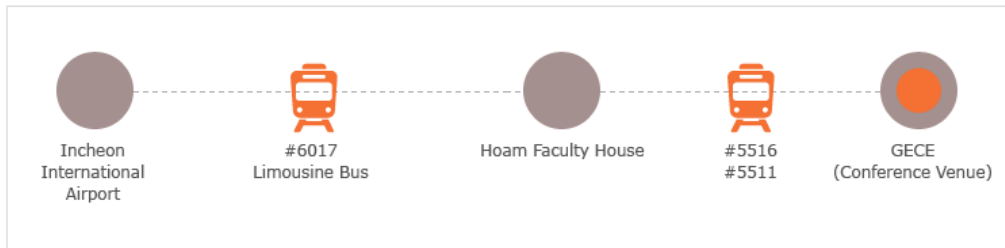
Homepage: <http://convention.gece.snu.ac.kr/convxe/index.php>

Floor Plan

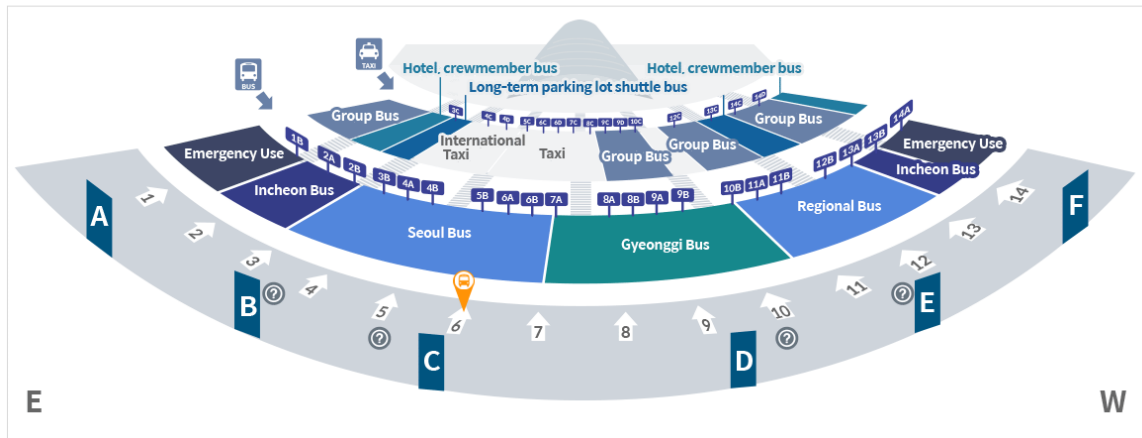


TRANSPORTATION

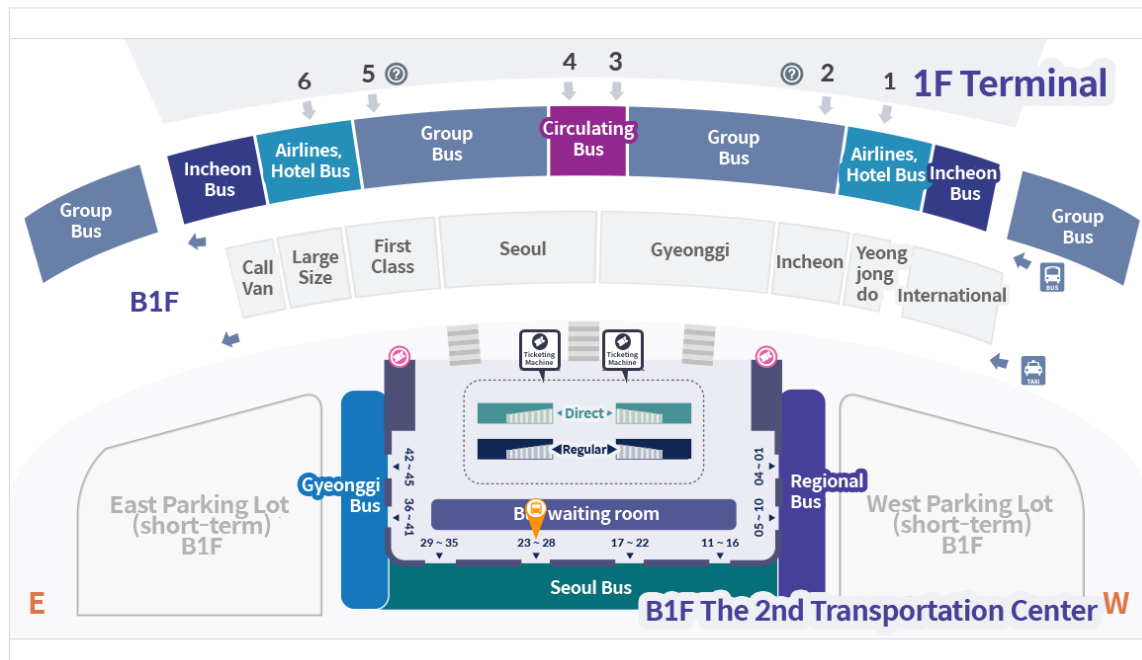
From Incheon Airport to GECE



Terminal 1 Bus stop location (1Floor No. 6)



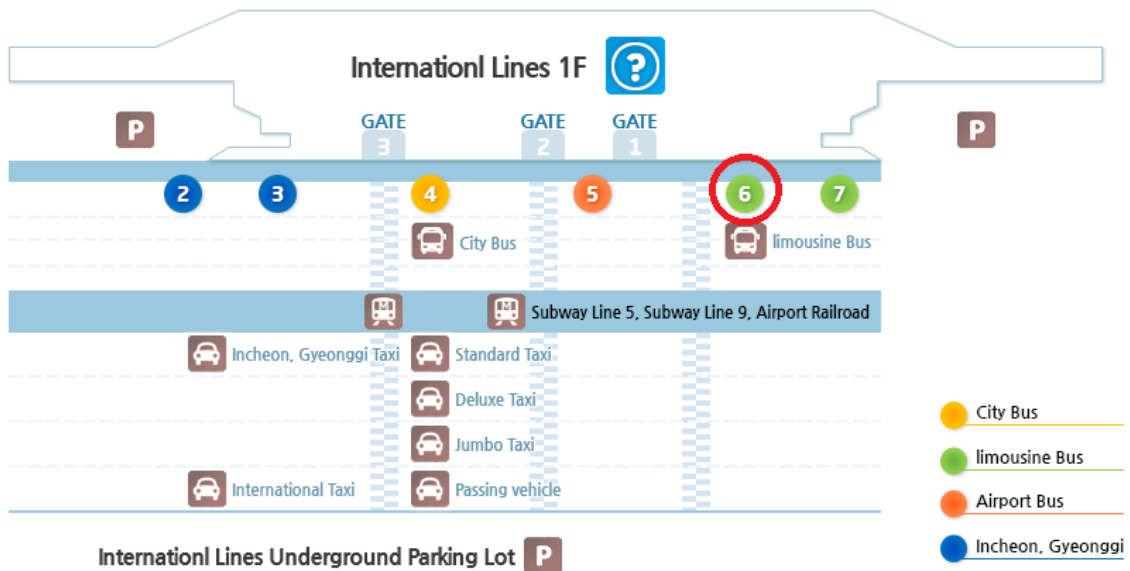
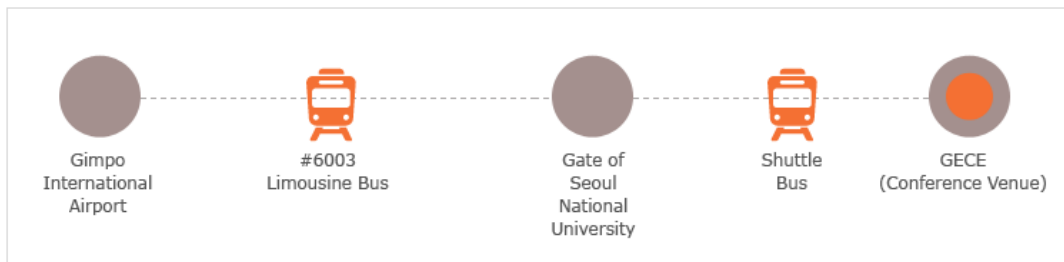
Terminal 2 Bus stop location (Transportation center Basement 1 No. 27)



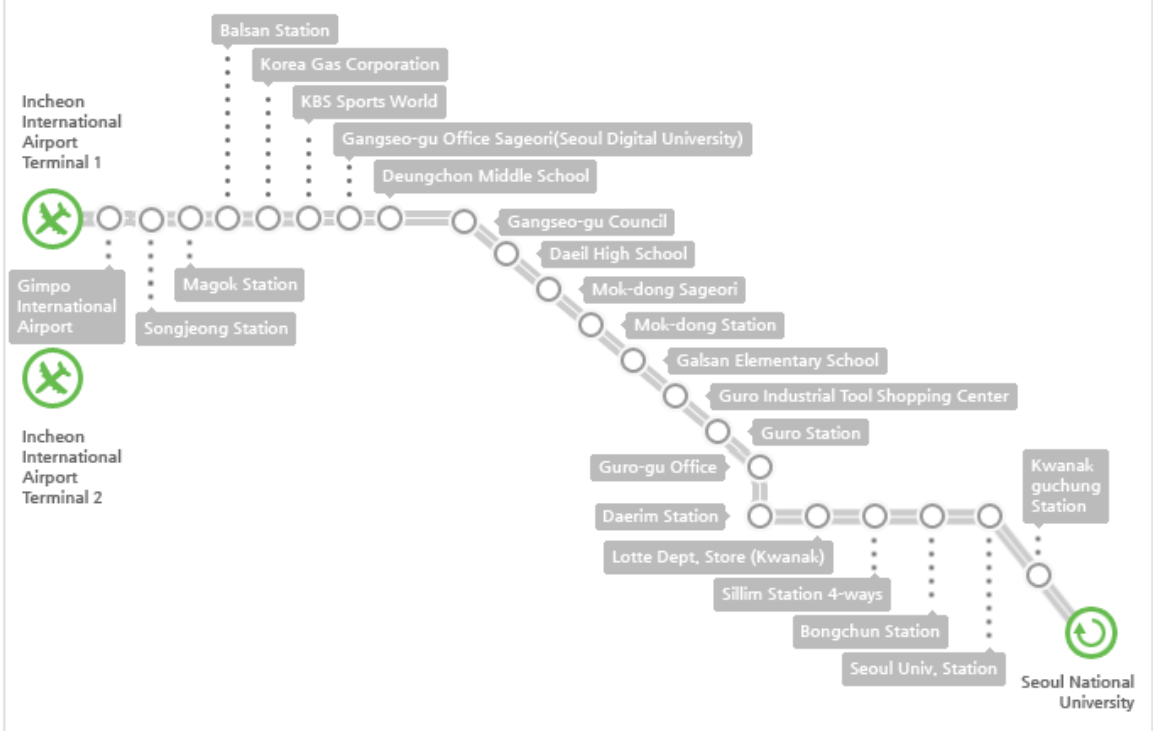
Route information



From Gimpo Airport to GECE



Route number 6003 (Incheon Airport ↔ Seoul National University)



Awards

Qualification: Poster presenters

The number of people: 10 people

Award details: Cash prize and Certificate

Winner announcement: March 29 (Fri) 17:40 Awards & Closing Ceremony

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Welcome Reception

Date & Time: March 28 (Thu) 18:30

Venue: 1F BBQ cafe, Global Education Center for Engineers, Seoul National University

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