

Program at a Glance

Time	Day 1 (10.15 Wed)	Day 2 (10.16 Thu)		Day 3 (10.17 Fri)	
		Room A (Conference Hall)	Room B (Event Hall A)	Room A (Conference Hall)	Room B (Event Hall A)
09:00 – 09:30		Registration		Registration	
09:30 – 10:45		SYM A1 Biomolecular Interactomics (Korean)	SYM B1 Multi-Omics and Proteogenomics (Korean)	SYM A4 Single-cell and Spatial Omics (English)	SYM B4 Glycosylation and PTMs (Korean)
10:45 – 11:00		Coffee Break		Coffee Break	
11:00 – 11:45		PL 2		PL 4	
11:45 – 12:15	Satellite Session				
12:15 – 12:45					
12:45 – 13:05		Coffee Break		Coffee Break	
13:05 – 13:30		3 Minutes Talk 1		3 Minutes Talk 2	
14:30 – 15:45	Registration	SYM A2 Clinical Proteomics (English)	SYM B2 Dark Proteome and Cancer Research (English)	SYM A5 Drug Discovery (English)	SYM B5 Young Scientist (English)
15:45 – 16:00		Coffee Break		Coffee Break	
16:00 – 16:10	ES 1	ES 2	SYM A3	SYM B3	General Assembly
16:10 – 16:45	Educational Session 1 (Korean)	Educational Session 2 (Korean)	Recent Advances in Technology (English)	KHUPO–KSEV Joint Session (Korean)	Closing Ceremony
16:45 – 17:00					
17:00 – 17:15	Coffee Break		Coffee Break		
17:15 – 17:30	Opening Ceremony		PL 3		
17:30 – 18:00	PL 1 (17:30 ~ 18:15)				
18:00 ~ 20:00	Banquet				

Program by Date

Day 1 (10.15 Wed)

Time	Room A (Conference Hall)	Room B (Event Hall A)
Satellite Session	11:30–14:30 @Meeting Room 1+2 	10:00–13:00 
		13:30–15:30 
		15:30–16:30 
14:30–16:00	Registration	
	[ES 1] (Korean) @Meeting Room1	[ES 2] (Korean) @Meeting Room2
16:00–16:30	“A Simple Guide to Proteomics” Introduction to Proteomics : Mass Spectrometry and Bioinformatics Kwang Hoe KIM CellKey AI Co., LTD	“How to Visualize My Proteomic Data?” Integrative Proteogenomic Analysis for Revealing Biological Insight and Mechanisms Jason Kyungha SA Korea University College of Medicine
16:30–17:00	“Choosing Your Tool: MS or Olink?” Exploring the Human Proteome through Affinity-Based Proteomics Byung-Hee SHIN Olink, part of Thermo Fisher Scientific	
17:15–17:30	Opening Ceremony	
[Plenary Lecture 1]		
	Chair. Cheolju LEE Korea Institute of Science and Technology (KIST)	
17:30–18:15	From Organoid Genetics to Mosaic Genetics	Bon-Kyoung KOO Institute for Basic Science (IBS)

Program by Date

Day 2 (10.16 Thu)

Room A (Conference Hall)**Symposium A1**
Biomolecular Interactomics (Korean)**Chair. Jong-Seo KIM**
Seoul National University**09:30–09:50 Development of Proximity Labeling Technologies for Local Proteome Mapping**

Song-Yi LEE Daegu Gyeongbuk Institute of Science and Technology (DGIST)

09:50–10:10 Subcellular Proteomes and Beyond: Application of Proximity Labeling

Kwang-eun KIM Yonsei University Wonju College of Medicine

10:10–10:30 Ultra-specific and Efficient Bioconjugation to Nonengineered Proteins for Therapeutic Applications

Seung Soo OH Pohang University of Science and Technology (POSTECH)

10:30–10:45 DARTS–LC–MS/MS Target Deconvolution Reveals VDAC1 as a Key Mediator of Metformin–Induced Autophagy

Minjeong KO Yonsei University

[Plenary Lecture 2]**Chair. Sang-Won LEE** Korea University**11:00–11:45 Precision Medicine : Omics and Clinical Data**

Daehee HWANG Seoul National University

11:45–12:45

ThermoFisher
S C I E N T I F I C**Symposium A2**
Clinical Proteomics (English)**Chair. Tadashi Kondo**
National Cancer Center, Japan**14:30–14:50 LC–MS based Blood Biomarkers for Early Detection of Alzheimer's Disease**

Zee-Yong PARK Gwangju Institute of Science and Technology (GIST)

14:50–15:10 Exploring Extracellular Vesicle–Derived Biomarkers from Human Biofluids for Male Infertility

Xuejiang Guo Nanjing Medical University

15:10–15:30 Cancer Cachexia Research Using Patient–Derived Models: A Multi–Omics Approach for the Molecular Background of Disease and Novel Therapeutic Strategies

Julia Osaki National Cancer Center, Japan

15:30–15:45 Poly–sialylated Glycan of Cervicovaginal Fluid can be a Potential Marker of Preterm Birth

Gun Wook PARK CellKey AI Co. LTD

Program by Date

Room A (Conference Hall)**Symposium A3**
Recent Advances in Technology (English)**Chair. Je-Hyun BAEK** Seegene Medical Foundation
R&D Center for Clinical Mass Spectrometry

16:00–16:20 **Mechanisms and Physiology of the Golgi Complex**
Seung Yeol PARK Pohang University of Science and Technology (POSTECH)

16:20–16:40 **Role of Reverse Phase Protein Array Platform
in Advancing Oncology at National Cancer Center Institute, Japan**
Mari Masuda National Cancer Center Research Institute, Japan

16:40–17:00 **PepQueryMHC: Rapid and Comprehensive Prioritization of Tumor Antigens Using
Immunotranscriptomics Data**
Seunghyuk CHOI School of Software, College of Computer Science, Kookmin University

[Plenary Lecture 3]**Chair. Je-Yoel CHO** Seoul National University

17:15–18:00 **Organelle-Targeted Chemical Proteomics
: From Mechanism to Metabolic Therapy**
Ho Jeong KWON Yonsei University

Program by Date

Day 2 (10.16 Thu)

Room B (Event Hall A)

Symposium B1

Multi-Omics and Proteogenomics (Korean)

Chair. Min-Sik KIM

Daegu Gyeongbuk Institute of Science and Technology (DGIST)

09:30–09:50

Insights from Public Multi-Omics Resources in Cancer

Hee Jin CHO Kyungpook National University

09:50–10:10

Multi-dimensional Omics Analysis for a Comprehensive Understanding of Disease-Disease Associations

Ji Hwan PARK Ajou University

10:10–10:30

Exploring the Regulation of Hematopoiesis Using Multi-Omics Approaches

Hye Ji CHA Dankook University

10:30–10:45

A Multi-Omics Landscape of pQTLs in Autism Reveals Immune and Synaptic Dysregulation

Jae Won OH Kyung Hee University

11:45–12:15



12:15–12:45



13:05–13:30

3 Minutes Talk 1 (English)

Symposium B2

Dark Proteome and Cancer Research (English)

Chair. Heeyoun HWANG

Korea Basic Science Institute (KBSI)

14:30–14:55

There is no Dark Side of the Proteome... as a Matter of Fact, its all Dark

Christopher M Overall University of British Columbia

14:55–15:20

Human Proteome Data as a Sustainable Public Resource

Yasushi Ishihama Graduate School of Pharmaceutical Sciences, Kyoto University

15:20–15:45

Network-based Clinical Proteogenomics and Discovery Bioinformatics

Toshihide Nishimura St. Marianna University School of Medicine

Program by Date

		Room B (Event Hall A)
Symposium B3 KHUPO–KSEV Joint Session (Korean)		Chair. Yong Song GHO / Jisook MOON Pohang University of Science and Technology (POSTECH) / CHA University
16:00–16:20	Extracellular Vesicle Engineering Jaesung PARK Pohang University of Science and Technology (POSTECH)	
16:20–16:40	Exosomes as Precision Biomarkers: From Liquid Biopsy to Next-Generation Therapeutics Jisook MOON CHA University	
16:40–17:00	Metabolic Reprogramming of Prostate Cancer Cells Into a Glycolysis Phenotype Induced by Extracellular Vesicles Dongsic CHOI Soonchunhyang University	

Program by Date

Day 3 (10.17 Fri)

Room A (Conference Hall)

Symposium A4 Single-cell and Spatial Omics (English)

Chair. Youngsoo KIM
CHA University / Bundang CHA Hospital

09:30–09:55 **Filter-Aided Expansion Proteomics for Spatial Analysis of Single Cells and Organelles in FFPE Tissues**
Zhen Dong Westlake Laboratory of Life Sciences and Biomedicine

09:55–10:20 **Spatially Resolved Single-Cell Transcriptomics for the Tumor Microenvironment of Pancreatic Cancer**
Sung Hwan LEE CHA university school of medicine

10:20–10:45 **Repurposable Neuroactive Drugs Target an AP-1/BTG-centric Neural Vulnerability of Glioblastoma**
Sohyon LEE Korea Advanced Institute of Science & Technology (KAIST)

[Plenary Lecture 4]

Chair. Jin Young Kim Korea Basic Science Institute(KBSI)

11:00–11:45 **High-Quality Peptide Evidence for Annotating Non-Canonical Open Reading Frames as Human Proteins**
Robert Moritz ISB, USA

11:45–12:45



Symposium A5 Drug Discovery (Korean)

Chair. Junho PARK
CHA University School of Medicine

14:30–14:55 **Introduction of Time-dependent Integrative Omics Research for New Drug Target Discovery**
Sangkyu LEE Sungkyunkwan University

14:55–15:20 **Integrative Proteomics Identifies MASTL as a Master Regulator in Gastric Cancer Signaling Networks**
Jae-Young KIM Chungnam National University

15:20–15:45 **Open Microfluidic Systems for 3D Vascular Proteomics**
Jihoon KO Gachon University

16:00–16:10 **General Assembly**

16:10–16:45 **Closing Ceremony**

Program by Date

Day 3 (10.17 Fri)

Room B (Event Hall A)

Symposium B4 Glycosylation and PTMs (Korean)

Chair. Sangkyu LEE
Sungkyunkwan University

09:30–09:50 **Disrupted N-Glycosylation Drives Cognitive Dysfunction in Schizophrenia**
Hyun Joo AN Chungnam National University

09:50–10:10 **Prefrontal O-glycan Sialylation as a Modulator of Depressive-like Behaviors**
Boyoung LEE Institute for Basic Science (IBS)

10:10–10:30 **Histone PTMs in Glioma**
Chan CHUNG Daegu Gyeongbuk Institute of Science and Technology (DGIST)

10:30–10:45 **Spray-type Modifications: Shaping the Spatial Proteome**
Yun-Bin LEE Seoul National University

11:45–12:15



12:15–12:45



13:05–13:30 **3 Minutes Talk 2 (English)**

Symposium B5 Young Scientists (English)

Chair. Hyun Woo PARK
Yonsei University

14:30–14:45 **Narrow-Window Data-Independent Acquisition with TMT for High-Throughput and Deep Proteomics Study**
Chaewon KANG Korea University

14:45–15:00 **Development of a Quantitative Proximity Labeling Method for Mapping the Intracristal Space Proteome**
Myeong-Gyun KANG Seoul National University

15:00–15:15 **Serpina1e Mediates the Exercise-induced Enhancement of Hippocampal Memory**
Hyunyoung KIM Korea Brain Research Institute (KBRI)

15:15–15:30 **The Chloroplast-targeted Long Noncoding RNA CHLORELLA Mediates Chloroplast Functional Transition Across Leaf Ageing via Anterograde Signaling**
Myeong Hoon KANG Department of New Biology, Daegu Gyeongbuk Institute of Science and Technology (DGIST)

15:30–15:45 **Organ-Specific Diversity of Immunogenic Glycosylation in Pigs for Xenotransplantation**
Ji Eun PARK Chungnam National University