

Program at a Glance

[Day 1] June 2 (Wed)

Time (KST)	Room A (Channel A)	Room B (Channel B)
09:00-11:00	Special Symposium Main Symposium Pioneers in Immune Cell Therapy	Education Session 1 (in Korean) (09:00 – 10:30)
		Coffee Break
11:00-11:10	Coffee Break	Education Session 2 (in Korean) (10:40 – 12:10)
11:10-12:10	Keynote Lecture Byoung S. Kwon (Eutilex Co.,Ltd., Korea)	
12:10-13:10	Luncheon Symposium 1 Abbvie	
13:10-13:20	President's Welcome Address KAI-Genexine Awards Ceremony	
13:20-14:20	Plenary Lecture 1 KAI-Genexine Grand Achievement Award Lecture Mi-Na Kweon (University of Ulsan, Korea)	
14:20-14:30	Coffee Break	
14:30-16:10	Symposium 1 Mucosal Immunology and Microbiota *[Society for Mucosal Immunology]	Symposium 2 Autoimmune Diseases *[National Efficacy Evaluation Center for the health products targeting Arthritis and Immune Diseases]
	Coffee Break	
16:10-16:20	Coffee Break	
16:20-17:05	Workshop 1 Infection & Immunodeficiency	Workshop 2 T&B cell Biology
17:05-17:20	Coffee Break	
17:20-18:20	Plenary Lecture 2 Lawrence Zitvogel (Gustave Roussy, University Paris Saclay, INSERM, France)	

*Co-host

- ePoster Presentation Area: KAI 2021 Hybrid Online Platform
- ePoster Presentation Period: During the KAI 2021 Hybrid (June 2, 3, 4)

This year's Poster Presentation will be the first time in the format (VOD) that adds voice to an existing E-poster. There is no Poster Viewing time in the program, but we look forward you to participate in Verbal E-poster.

[Day 2] June 3 (Thu)

Time (KST)	Room A (Channel A)	Room B (Channel B)	Room C
09:00-10:00	Plenary Lecture 3 Mark M. Davis (Stanford University, USA) <small>*[Center for Epidemic Preparedness, Korea Advanced Institute of Science and Technology]</small>		
10:00-10:15	Coffee Break		
10:15-11:55	Symposium 3 Regulatory Immune Cells	Symposium 4 Human Immunological diseases	Satellite Symposium 1 (Immune Networking for Young Investigators) Immune Regulation <small>*[Hanyang University, Cellular Immunology Lab]</small>
11:55-13:10	Luncheon Symposium 2 Lilly	Lunch	
13:10-14:10	Young Investigator Workshop 1 Immune Regulation	Young Investigator Workshop 2 Innate Immunity & Cancer Immunology	
14:10-14:20	Coffee Break		
14:20-16:00	Symposium 5 T cell Biology	Symposium 6 Allergy	Satellite Symposium 2 (Immune Networking for Young Investigators) Macrophages and Hypoxia
16:00-16:15	Coffee Break		
16:15-17:55	Symposium 7 B cell Biology <small>*[Hanyang University College of Medicine, Lab of Autoimmunology]</small>	Symposium 8 KAI-AKIA Joint Symposium (Including KAI-Genexine Excellence Award Lecture)	Satellite Symposium 3 (Immune Networking for Young Investigators) Immunologic Cell Death

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[Day 3] June 4 (Fri)

Time (KST)	Room A (Channel A)	Room B (Channel B)
09:00-10:00	Plenary Lecture 4 Ruslan Medzhitov (Yale School of Medicine, USA) <small>*[Department of Microbiology, Yonsei University College of Medicine, Institute for Immunology and Immunological Diseases, Yonsei University College of Medicine]</small>	
10:00-10:15	Coffee Break	
10:15 - 11:55	Symposium 9 Immuno-Metabolism	Symposium 10 Vaccines and Therapeutics against Viral Epidemics <small>*[International Vaccine Institute]</small>
11:55-13:10	Luncheon Symposium 3 BD Korea	
13:10-14:10	Workshop 3 Cancer Immunology and Immunotherapy	Workshop 4 Innate Immunity <small>*[Priority Research Center, Myunggok Medical Research Institute, Konyang University College of Medicine]</small>
14:10-14:20	Coffee Break	
14:20-16:00	Symposium 11 Cancer Immunology <small>*[CIRNO (Center for Immune Research on Non-lymphoid Organ)]</small>	Symposium 12 Infection & Immunity <small>*[Chungnam National University College of Medicine, Infection Control Convergence Research Center]</small>
16:00-16:15	Coffee Break	
16:15-17:55	Symposium 13 Cancer Immunotherapy <small>*[Konkuk University School of Medicine Research Center for Toll Like Receptor derived disease]</small>	Symposium 14 Innate Immunity
17:55	Awards & Closing Ceremony	

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Scientific Program

[Day 1] June 2 (Wed)**Room A (Channel A)**

09:00-11:00	Special Symposium - Pioneers in Immune Cell Therapy (K=Korean / E=English Language)	
	Main Symposium: Emerging Stars in Immune Cell Therapy	Chair: Yu Kyeong Hwang (Green Cross LabCell Inc., Korea)
09:00-09:30	(E) Enhanced CAR-T cell therapy using Converter & CLIP CAR platforms	Kyungho Choi (TiCARos Inc., Korea)
09:30-10:00	(K) Development of novel anti-CD19 CAR T cells resistant to PD-1 and TIGIT-mediated immune suppression	Hyung Cheol Kim (Curcell Inc., Korea)
		Chair: Kyungho Choi (TiCARos Inc., Korea)
10:00-10:30	(E) Provability and challenges of CAR-NK cell therapy beyond CAR-T cells	Yu Kyeong Hwang (Green Cross LabCell Inc., Korea)
10:30-11:00	(K) Expanded human umbilical cord blood Myeloid-derived suppressor cells ameliorate graft versus host disease by immunosuppressive function	Hyun-Jung Sohn (ViGenCell Inc., Korea)
11:00-11:10	Coffee Break	
11:10-12:10	Keynote Lecture - "From Bench to Bedside": The Story of a Big Tree	Chair: Jeehee Youn (Hanyang University, Korea)
11:10-12:00	(E) Anti-Cancer TCR T Therapeutics: From Bench to Bedside	Byoung S. Kwon (Eutilex Co., Ltd., Korea)
12:00-12:10	Gratitude Ceremony	
12:10-13:10	Luncheon Symposium 1 - Abbvie	Chair: Sang-Il Lee (Gyeongsang University, Korea)
	Introduction of new JAK inhibitor Upadacitinib for inadequate responders on established therapies in Rheumatoid Arthritis	Seung-Ki Kwok (The Catholic University, Korea)
13:10-13:20	President's Welcome Address KAI-Genexine Awards Ceremony	
13:20-14:20	Plenary Lecture 1 - KAI-Genexine Grand Achievement Award Lecture	Chair: Wan-Uk Kim (The Catholic University, Korea)
13:20-14:10	Microbial metabolites in the regulation of host immunity	Mi-Na Kweon (University of Ulsan, Korea)
14:10-14:20	Q&A	
14:20-14:30	Coffee Break	

14:30-16:10	Symposium 1 - Mucosal Immunology and Microbiota *[Society for Mucosal Immunology]	Chair: Myunghoo Kim (Pusan National University, Korea), Sang-Uk Seo (The Catholic University, Korea)
14:30-15:00	Innate Lymphoid Cells: Regulation of generation and effector functions	Chang H. Kim (University of Michigan, USA)
15:00-15:10	Q&A	
15:10-15:40	Understanding gut-lung axis for asthma control	Han-Ki Park (Kyungpook National University, Korea)
15:40-16:10	Location-specific diversity of microbiome in the gastrointestinal tract	Seong-Tshool Hong (Jeonbuk National University, Korea)
16:10-16:20	Coffee Break	
16:20-17:05	Workshop 1 - Infection & Immunodeficiency	Chair: Nam-Hyuk Cho (Seoul National University, Korea)
16:20-16:35	Modulation of IL-27p28 production on T&B cells during infection	Jeongho Park (Kangwon University, Korea)
16:35-16:50	Mycobacterium tuberculosis Rv2626c-derived peptide as a therapeutic agent for sepsis	Chul-Su Yang (Hanyang University)
16:50-17:05	Successful Sirolimus Treatment for Korean Patients with Activated Phosphoinositide 3-kinase δ Syndrome 1: the First Case Series in Korea	Yae-Jean Kim (Sungkyunkwan University)
17:05-17:20	Coffee Break	
17:20-18:20	Plenary Lecture 2	Chair: Sang-Kyou Lee (Yonsei University, Korea)
17:20-18:10	Microbiota-centered interventions in immuno-oncology: research and prospects	Laurence Zitvogel (Gustave Roussy, University Paris Saclay, INSERM, France)
18:10-18:20	Q&A	

Room B (Channel B)

09:00-10:30	Education Session 1 - Anti-viral Vaccine (Korean Language Session)	Chair: Young-Jin Seo (Chung-Ang University, Korea)
09:00-09:30	Immunological considerations for COVID-19 vaccines	Doo-Jin Kim (Korea Research Institute of Bioscience and Biotechnology, Korea)
09:30-10:00	T-cell vaccines: principle and application	Jun Chang (Ewha Womans University, Korea)
10:00-10:30	Delivery & Stabilization Technology for mRNA vaccine	Eun-Kyoung Bang (KIST, Korea)
10:30-10:40	Coffee Break	

10:40-12:10	Education Session 2 - Immunotherapeutics (Korean Language Session)	Chair: Chan Hyuk Kim (KAIST, Korea)
10:40-11:10	Designing the diversity of synthetic antibody libraries	Hyunbo Shim (Ewha Womans University, Korea)
11:10-11:40	Gene-based cancer immunotherapy	Sang-Jin Lee (National Cancer Center, Korea)
11:40-12:10	Current trends in NK cell immunotherapy	Kyung-Mi Lee (Korea University, Korea)
14:30-16:10	Symposium 2 - Autoimmune Diseases *[National Efficacy Evaluation Center for the health products targeting Arthritis and Immune Diseases]	Chair: Sung-Gyoo Park (Seoul National University, Korea)
14:30-15:00	IL-17 produced by AlphaBeta-GammaDelta T cells plays a priming role in autoimmune	Kingston Mills (Trinity Biomedical Sciences Institute, Ireland)
15:00-15:10	Q&A	
15:10-15:40	A novel cytokine consisting of p40 and EB13 subunits suppresses experimental autoimmune arthritis	Mi-La Cho (The Catholic University, Korea)
15:40-16:10	CNS autoimmune demyelinating diseases	Ho Jin Kim (National Cancer Center, Korea)
16:10-16:20	Coffee Break	
16:20-17:05	Workshop 2 - T&B cell Biology	Chair: Hyoung-Pyo Kim (Yonsei University, Korea)
16:20-16:35	ROR α enforces stability of the T-helper-17 cell effector program	June-Yong Lee (Yonsei University, Korea)
16:35-16:50	Bcl6-mediated Transcriptional Regulation of Follicular Helper T cells	Jinyong Choi (The Catholic University, Korea)
16:50-17:05	Anergic B cells respond to membrane antigens through mechanisms involving mechanosensitive membrane calcium channels	Kihyuck Kwak (Yonsei University, Korea)
17:05-17:20	Coffee Break	

Scientific Program

[Day 2] June 3 (Thu)

Room A (Channel A)

09:00-10:00	Plenary Lecture 3 *[Center for Epidemic Preparedness, Korea Advanced Institute of Science and Technology]	Chair: Eui-Cheol Shin (KAIST, Korea)
09:00-09:50	Human immunology: new opportunities for both medicine and science	Mark M. Davis (Stanford University, USA)
09:50-10:00	Q&A	
10:00-10:15	Coffee Break	
10:15-11:55	Symposium 3 - Regulatory Immune Cells	Chair: Jae-Hoon Chang (Yeungnam University, Korea)
10:15-10:45	Gut-derived signals drives the differentiation and stability of Bregs versus B effector cells in autoimmunity	Claudia Mauri (University College London, UK)
10:45-10:55	Q&A	
10:55-11:25	Regulatory roles of hepatic macrophages with lipid mediators on liver injuries	Yong-Hyun Han (Kangwon National University, Korea)
11:25-11:55	Regulation of CD8 T cell exhaustion and anti-tumor immune responses by IL-17-producing T cells	Byung-Seok Kim (Incheon National University, Korea)
11:55-13:10	Luncheon Symposium 2 - Lilly	Chair: Wan-Uk Kim (The Catholic University, Korea)
	JAK inhibitors and roles in autoimmune diseases	Seungwoo Han (Kyungpook National University, Korea)
13:10-14:10	Young Investigator Workshop 1 - Immune Regulation	Chair: Youn Soo Choi (Seoul National University, Korea), Hyun-Woo Shin (Seoul National University, Korea)
13:10-13:20	[OP-01] IL-17 Drives Salivary Gland Dysfunction Via Inhibiting TRPC1-mediated Calcium Movement In Sjogren's Syndrome	Fan Xiao (The University of Hong Kong, China)
13:20-13:30	[OP-02] Clonal hematopoiesis-associated DNMT3A haploinsufficiency causes dichotomous DNA methylation defects at enhancers in mature human immune cells	Minji Byun (Icahn School of Medicine at Mount Sinai, USA)
13:30-13:40	[OP-03] Quantitative Dissection of Immune Homeostasis Using Multiscale Modeling Approaches	Kyemyung Park (Yonsei University, Korea)
13:40-13:50	[OP-04] Contribution of dipeptidyl peptidase 10 to airway dysfunction in patients with aspirin-exacerbated respiratory disease	Soyoon Sim (Ajou University, Korea)

13:50-14:00	[OP-05] Critical regulation of follicular helper T cell differentiation and function by Ga13 signaling	Da-Sol Kuen <i>(Seoul National University, Korea)</i>
14:00-14:10	[OP-06] Manipulation Of Regnase-1 mRNA Stability By Antisense Oligonucleotides Alleviates Inflammatory Responses In Pulmonary And Autoimmune Diseases	Ka Man Carman Tse <i>(Kyoto University, Japan)</i>
14:10-14:20	Coffee Break	
14:20-16:00	Symposium 5 - T cell Biology	Chair: Eun Young Choi <i>(Seoul National University, Korea)</i>
14:20-14:50	PI3 Kinase and the regulation of T cell responses	Pamela L. Schwartzberg <i>(National Institutes of Health, USA)</i>
14:50-14:55	Q&A	
14:55-15:25	IL-27-mediated regulation of T cell immunity and inflammation	Booki Min <i>(Northwestern University, USA)</i>
15:25-15:30	Q&A	
15:30-16:00	Developmental Programming of CD8 T cell immunity by perinatal stress hormone	Jun Young Hong <i>(Yonsei University, Korea)</i>
16:00-16:15	Coffee Break	
16:15-17:55	Symposium 7 - B cell Biology *[Hanyang University College of Medicine, Lab of Autoimmunology]	Chair: Tae Jin Kim <i>(Sungkyunkwan University, Korea)</i>
16:15-16:45	Activating Protective Innate and Adaptive B-1 Cell Responses Against Cancer	Karen M. Haas <i>(Wake Forest School of Medicine, USA)</i>
16:45-16:55	Q&A	
16:55-17:25	Innate and T cell-mediated regulation of B-1a cells	Tae Jin Kim <i>(Sungkyunkwan University, Korea)</i>
17:25-17:55	The role of Sirt1 in B cell functions	Seok-Rae Park <i>(Konyang University, Korea)</i>

Room B (Channel B)

10:15-11:55	Symposium 4 - Human Immunological Diseases	Chair: Wan-Uk Kim <i>(The Catholic University, Korea)</i>
10:15-10:45	Novel ETS factor deficiency drives autoinflammatory disease in humans and mice	Carrie Lucas <i>(Yale School of Medicine, USA)</i>
10:45-10:55	Q&A	
10:55-11:25	Human nasal microbiome can protect our lung from respiratory virus	Hyun Jik Kim <i>(Seoul National University, Korea)</i>
11:25-11:55	Human kidney-resident immune cells	Seung Seok Han <i>(Seoul National University, Korea)</i>
11:55-13:10	Lunch	

13:10-14:10	Young Investigator Workshop 2 - Innate Immunity & Cancer Immunology	Chair: You-Me Kim (KAIST, Korea), Yeonseok Chung (Seoul National University, Korea)
13:10-13:20	[OP-07] Obesity regulates immune response against viral infection through commensal microbiota	Jang Hyun Park (KAIST, Korea)
13:20-13:30	[OP-08] Macrophage-Preferable Delivery of The NLRX1 Protein Ameliorates Lethal Sepsis by Regulating NF-Kb and Inflammasome Activation	Ja-Hyun Koo (Hanyang University, Korea)
13:30-13:40	[OP-09] Antibiotic-Dependent Relationships Between the Nasal Microbiome and Secreted Proteome in Nasal Polyps	Yi-Sook Kim (Seoul National University, Korea)
13:40-13:50	[OP-10] IFN- γ -responsive CD169+ macrophages control antitumor T cell responses in brain cancer	Hyun-Jin Kim (KAIST, Korea)
13:50-14:00	[OP-11] Effect of Pentoxifylline on Tumor-infiltrating T Cells; Mouse Model of Breast Cancer	Mohammad Hossein Kazemi (Iran University, Iran)
14:00-14:10	[OP-12] Spatial epitranscriptomics reveals A-to-I editome in relation to cancer stem cell-like microniches	Amos Lee (Seoul National University, Korea)
14:10-14:20	Coffee Break	
14:20-16:00	Symposium 6 - KAI-AKIA Joint Symposium	Chair: Hyun-Woo Shin (Seoul National University, Korea)
14:20-14:50	Basal cell dysplasia in Type 2 immunity	Nora Barrett (Harvard Medical School, USA)
14:50-15:00	Q&A	
15:00-15:30	Effects of Wnt signaling on epithelial to mesenchymal transition in chronic rhinosinusitis with nasal polyp	Ji-Hun Mo (Dankook University, Korea)
15:30-16:00	Modulating neutrophil extracellular traps (NETs) for treatment of severe diseases using biomaterials	Chun Gwon Park (Sungkyunkwan University, Korea)
16:00-16:15	Coffee Break	
16:15-17:55	Symposium 8 - KAI-AKIA Joint Symposium (Including KAI-Genexine Excellence Award Lecture)	Chair: You-Me Kim (KAIST, Korea)
16:15-16:45	Indispensable role of ICOS in the differentiation of T follicular regulatory cells	Woong-Kyung Suh (IRCM, Canada)
16:45-16:50	Q&A	
16:50-17:20	Novel profibrogenic immunomodulator DKK1 in pulmonary fibrosis	Wook-Jin Chae (Virginia Commonwealth University, USA)
17:20-17:25	Q&A	
17:25-17:55	Innate Lymphoid Cells; A new player in the mucosal immunity KAI-Genexine Excellence Award Lecture	Hye Young Kim (Seoul National University, Korea)

Room C

10:15-11:55	Satellite Symposium 1 - Immune Regulation (Immune Networking for Young Investigators) *[Hanyang University, Cellular Immunology Lab]	Moderator: Sung-Gyoo Park (Seoul National University, Korea)
10:15-10:45	New Insights on the transcriptional regulation of Regulatory T cells	Dipayan Rudra (ImmunoBiome Inc., Korea)
10:45-11:05	T cell dysregulation leads to the onset of Systemic Lupus Erythematosus in Ets1 deficient mice	Chan Jong Kim (POSTECH, Korea)
11:05-11:25	TLA-4 signaling peptide induce regulatory T cells in vivo to control autoimmune encephalomyelitis	Gil-Ran Kim (Hanyang University, Korea)
11:25-11:55	Round table meeting	
14:20-16:00	Satellite Symposium 2 - Macrophages and Hypoxia (Immune Networking for Young Investigators)	Moderator: Jae-Hoon Choi (Hanyang University, Korea)
14:20-14:50	Tumor-associated macrophages and hypoxia	G-One Ahn (Seoul National University, Korea)
14:50-15:10	Immunoregulatory function of PD-L1+ classical dendritic cells in Helicobacter-induced gastritis.	Seung Hyun Lee (Hanyang University, Korea)
15:10-15:30	Tumor-induced rewiring tumor microenvironment to establish premetastatic niche	Hyewon Chung (Seoul National University, Korea)
15:30-16:00	Round table meeting	
16:15-17:55	Satellite Symposium 3 - Immunologic Cell Death (Immune Networking for Young Investigators)	Moderator: Myunghoo Kim (Pusan National University, Korea)
16:15-16:45	Natural compound inducers of immunogenic cell death	Marc Diederich (Seoul National University, Korea)
16:45-17:05	Inhibition of Topoisomerase I Shapes Antitumor Immunity Through the Induction of Monocyte-derived Dendritic Cells	Jungmi Lee (Seoul National University, Korea)
17:05-17:25	Exclusive traits of neutrophils in NLRP3 inflammasome signaling contribute to prolonged inflammation	SeungHwan Son (Yonsei University, Korea)
17:25-17:55	Round table meeting	

Scientific Program

[Day 3] June 4 (Fri)

Room A (Channel A)

09:00-10:00	Plenary Lecture 4 *[Department of Microbiology, Yonsei University College of Medicine, Institute for Immunology and Immunological Diseases, Yonsei University College of Medicine]	Chair: Jeon-Soo Shin (Yonsei University, Korea)
09:00-09:50	Tissue homeostasis and inflammation	Ruslan Medzhitov (Yale School of Medicine, USA)
09:50-10:00	Q&A	
10:00-10:15	Coffee Break	
10:15-11:55	Symposium 9 - Immuno-Metabolism	Chair: Jong-Seok Moon (Soonchunhyang University, Korea)
10:15-10:45	Role of the NLRP3 inflammasome in neurodegenerative disease	Michael T. Heneka (University of Bonn Medical Center, Germany)
10:45-10:55	Q&A	
10:55-11:25	Cellular metabolism and heterogeneity in glioma	Jaejoon Lim (CHA University, Korea)
11:25-11:55	Immunology and metabolism in kidney mesangial cell	Samel Park (Soonchunhyang University, Korea)
11:55-13:10	Lunch	
13:10-14:10	Workshop 3 - Cancer Immunology and Immunotherapy	Chair: Su-Hyung Park (KAIST, Korea), Tae Woo Kim (Korea University, Korea)
13:10-13:25	Neoadjuvant chemoradiation alters biomarkers of anticancer immunotherapy responses in locally advanced rectal cancer	Shin Kim (Keimyung University, Korea)
13:25-13:40	Preclinical platform for long-term evaluation of immun-oncology drugs using hCD34+ humanized mouse model	Yong Hwa Moon (CHA University, Korea)
13:40-13:55	Overcoming peritoneal metastasis of colon cancer with STING-based immunotherapy	Chan Kim (CHA University, Korea)
13:55-14:10	Chronic activation of 4-1BB signals induce granuloma development in tumor-draining lymph nodes that are detrimental to subsequent CD8+ T cell responses	Beom-Kyu Choi (National Cancer Center, Korea)
14:10-14:20	Coffee Break	

14:20-16:00	Symposium 11 - Cancer Immunology *[CIRNO (Center for Immune Research on Non-lymphoid Organ)]	Chair: Sang-Jun Ha (Yonsei University, Korea)
14:20-14:50	The power of ONE: Immunology in the age of single cell genomics	Ido Amit (Weizmann Institute of Science, Israel)
14:50-15:00	Q&A	
15:00-15:30	Tumor hypoxia represses $\gamma\delta$ T cell-mediated antitumor immunity against brain tumors	Heung Kyu Lee (KAIST, Korea)
15:30-16:00	TIGIT family receptors : from molecular mechanisms to clinical applications	Yoon Park (KIST, Korea)
16:00-16:15	Coffee Break	
16:15-17:55	Symposium 13 - Cancer Immunotherapy *[Konkuk University School of Medicine Research Center for Toll Like Receptor derived disease]	Chair: Chan Hyuk Kim (KAIST, Korea)
16:15-16:45	New directions in CAR T cell engineering	Michel Sadelain (Memorial Sloan Kettering, USA)
16:45-16:55	Q&A	
16:55-17:25	Intrinsic cancer vaccination	In-San Kim (KIST/KU, Korea)
17:25-17:55	Immunocytokines: Emerging therapeutic agents for cancer immunotherapy	Yong-Sung Kim (Ajou University, Korea)
17:55-	Awards & Closing Ceremony	

Room B (Channel B)

10:15-11:55	Symposium 10 - Vaccines and Therapeutics against Viral Epidemics *[International Vaccine Institute]	Chair: Young-Jin Seo (Chung-Ang University, Korea)
10:15-10:45	SARS-CoV-2 variants and antibody neutralization	Pei-Yong Shi (University of Texas Medical Branch, USA)
10:45-10:55	Q&A	
10:55-11:25	Preparing better vaccine for uncertain tomorrow	Man-Seong Park (Korea University, Korea)
11:25-11:55	Role of cell death and DAMP pathway in vaccine-induced immunity	Eui Ho Kim (Institut Pasteur Korea, Korea)
11:55-13:10	Luncheon Symposium 3 - BD Korea	Chair: Won-Woo Lee (Seoul National University, Korea)
	Defining critical biomarkers with high dimensional platform technologies	Robert Balderas (BD Biosciences, USA)

13:10-14:10	Workshop 4 - Innate Immunity *[Priority Research Center, Myunggok Medical Research Institute, Konyang University College of Medicine]	Chair: Heung Kyu Lee (KAIST, Korea), Hye Young Kim (Seoul National University, Korea)
13:10-13:25	Exosomal miRNA-19a and miRNA-614 induced by air pollutants promote pro-inflammatory M1 macrophage polarization via regulation of ROR α expression in human respiratory mucosal microenvironment	Seung Ja Oh (KIST, Korea)
13:25-13:40	Transcriptional regulation of the common γ chain receptor expression in activated T cells	Changwan Hong (Pusan National University, Korea)
13:40-13:55	Bacterial Lipoproteins Induce BAFF Production via TLR2/MyD88/JNK Signaling Pathways in Dendritic Cells	Seung Hyun Han (Seoul National University, Korea)
13:55-14:10	Natural killer cells in reproduction	Sung Ki Lee (Konyang University, Korea)
14:10-14:20	Coffee Break	
14:20-16:00	Symposium 12 - Infection & Immunity *[Chungnam National University College of Medicine, Infection Control Convergence Research Center]	Chair: Je-Wook Yu (Yonsei University, Korea)
14:20-14:50	Host adaptations to microbial diversity	Ken Cadwell (New York University School of Medicine, USA)
14:50-15:00	Q&A	
15:00-15:30	Generation of humoral immunity in mucosal virus infection	Ji Eun Oh (KAIST, Korea)
15:30-16:00	New Strategy for complete treatment of HBV	Sung-Gyoo Park (Seoul National University, Korea)
16:00-16:15	Coffee Break	
16:15-17:55	Symposium 14 - Innate Immunity	Chair: Suk-Jo Kang (KAIST, Korea)
16:15-16:45	Innate DNA sensing through the cGAS-STING pathway	Andrea Ablasser (EPFL, Germany)
16:45-16:55	Q&A	
16:55-17:25	Pathogenic myeloid cells driving mortality in bacterial infection	Yoe-Sik Bae (Sungkyunkwan University, Korea)
17:25-17:55	CD137 signaling controls immune responses through induction of regulatory dendritic cells	Byungsuk Kwon (University of Ulsan, Korea)