

## KSBMB International Conference 2021 Program

\*PL: Plenary Lecture, S: Symposium, SP: Special Session, ST: Satellite Session / Korean Time (GMT+9)

May 21, 2021 version

Date	Room	Time	Session No	Part	Name	Affiliation	Nationality	Title
May 25 (Tue)	105&110	9:00-11:00	ST1	Organizer	Mikyung Shin	SKKU Convergence Institute, Sungkyunkwan University	Korea	[WBF] "L'Oreal-UNESCO Award For Women in Science" Award Lecture (Korean Session)
					Hyang-Ae lee	KIT	Korea	
				Chair	Min-Jung Kang	KIST	Korea	
					Youngmi Kim Pak	Kyung Hee University, College of Medicine	Korea	
		9:00-9:30	ST1-1	Speaker	So Young Choi	Department of Chemical and Biomolecular Engineering, KAIST	Korea	Bioplastic production by metabolically engineered bacteria
		9:30-9:40	-	Q&A	-	-	-	Q&A
		9:40-10:10	ST1-2	Speaker	Sun Min Lim	Yonsei University College of Medicine	Korea	Evolution of targeted therapy in lung cancer – clinical unmet needs and future perspectives
		10:10-10:20	-	Q&A	-	-	-	Q&A
		10:20-10:50	ST1-3	Speaker	Jung-Ah Kang	Korea Research Institute of Bioscience and Biotechnology	Korea	Ciclopirox inhibits Hepatitis B Virus secretion by blocking capsid assembly
		10:50-11:00	-	Q&A	-	-	-	Q&A
May 25 (Tue)	101~104	9:00-11:00	S1	Organizer	Ki-Tae Ha	School of Korean Medicine, Pusan National University	Korea	Metabolism and PTM
				Organizer & Chair	Dongryeol Ryu	School of Medicine, Sungkyunkwan University	Korea	
				Chair	Sangkyu Lee	College of Pharmacy, Kyungpook National University	Korea	
		9:00-9:45	S1-1	Speaker	Yingming Zhao	Ben May Department of Cancer Research, University of Chicago	USA	Family of Metabolism-sensitive Lysine Acylation Pathways: Biochemistry, epigenetics and pathophysiology
		9:45-10:10	S1-2	Speaker	Jung-Min Kee	Department of Chemistry, UNIST	Korea	Non-canonical protein phosphorylations in signaling and metabolism
		10:10-10:35	S1-3	Speaker	Tatsuya Yoshizawa	Department of Medical Biochemistry, Kumamoto University	Japan	The diverse functions of NAD-dependent lysine deacylase SIRT7
		10:35-11:00	S1-4	Speaker	Minjia Tan	Shanghai Institute of Materia Medica, Chinese Academy of Sciences	China	Proteomic characterization of protein posttranslational modifications identifies new therapeutic opportunities

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May 25 (Tue)	106~109	9:00-11:00	S2	Organizer & Chair	TaeSoo Kim	Department of Biological Sciences, Ewha Womans University	Korea	Epigenetic Gene Regulation
					Daeyoup Lee	Department of Biological Sciences, Korea Advanced Institute of Science and Technology	Korea	
		9:00-9:30	S2-1	Speaker	Bing Li	Department of Biochemistry and Molecular Cell Biology, Shanghai Jiao Tong University	China	High Order Assembly of RNA Polymerase II CTD Interactome
		9:30-10:00	S2-2	Speaker	Tae-Kyung Kim	Department of Life Sciences, POSTECH	Korea	Epigenetic regulation of brain function
		10:00-10:30	S2-3	Speaker	Jung-Shin Lee	Department of Molecular Bioscience, Kangwon National University	Korea	Chromatin occupancy of Rad6 determines trimethylation of histone H3 lysine 4
10:30-11:00	S2-4	Speaker	Chul-Hwan Lee	Department of Pharmacology, Seoul National University, Medicine	Korea	Mechanistic understanding of PRC2 inhibition in H3K27M pediatric glioma		
May 25 (Tue)	201&202	9:00-11:00	S3	Organizer & Chair	Semin Lee	Department of Biomedical Engineering, UNIST	Korea	Single Cell Analysis: From Development to Disease
					Hae-Ock Lee	Department of Biomedicine and Health Sciences, Graduate School, The Catholic University of Korea	Korea	
		9:00-9:30	S3-1	Speaker	Jong Kyoung Kim	Department of New Biology, DGIST	Korea	Dissecting cellular heterogeneity and plasticity of gastric stem cells
		10:00-10:30	S3-3	Speaker	Jung Kyoong Choi	Department of Bio and Brain Engineering, KAIST	Korea	Utilizing single-cell data for identification of cancer antigens
		10:30-11:00	S3-4	Speaker	Jihwan Park	School of Life Sciences, GIST	Korea	Characterizing de-differentiation of thyroid cancer by integrated analysis
May 25 (Tue)	203&204	9:00-11:00	S4	Organizer & Chair	Soung-Hun Roh	Seoul National University, School of Biological Science	Korea	Structure-based insights of the biophysics and molecular mechanism
					Ho-min Kim	Institute of Basic Science	Korea	
		9:00-9:30	S4-1	Speaker	Maofu Liao	Havard University, Department of Cell Biology	USA	Molecular mechanism of ABC lipid transporters
		10:00-10:30	S4-3	Speaker	Ryan Hibbs	UT Southwestern medical center, Department of neuroscience	USA	Structural insights into nicotinic acetylcholine receptor channel gating and ion permeation
		10:30-11:00	S4-4	Speaker	Tae-Young Yoon	Seoul National University, School of Biological Science	Korea	Watching a single human glucose transporter fold

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May 25 (Tue)	205	9:00-11:00	S5	Organizer & Chair	Woong-Yang Park	Samsung Medical Center	Korea	Precision Medicine
		9:00-9:30	S5-1	Speaker	Satoshi Nishizuka	Iwate Medical University	Japan	Somatic mutations in blood as tumor marker for cancer treatment monitoring
		9:30-9:50	S5-2	Speaker	Young Jun Jeon	Sungkyunkwan University, College of Biotechnology & Bioengineering	Korea	Integrated invasive and non-invasive transcriptomic analyses in personalized radiation therapy for the patients with lung cancer
		9:50-10:10	S5-3	Speaker	Joo Sang Lee	Sungkyunkwan University, Medical School	Korea	Harnessing synthetic lethality to advance precision cancer medicine
		10:10-10:30	S5-4	Speaker	Kyu-Tae Kim	Ajou University School of Medicine	Korea	Characterizing immunogenicity in response to immune checkpoint blockade
		10:30-11:00	S5-5	Speaker	Nameeta Shah	Mazumda Shaw Cancer Research Center	India	Engineering the perivascular and hypoxic niches of glioblastoma
May 25 (Tue)	105&110	11:30-12:30	SP1	Organizer	KSBMB	-	Korea	바이오연구과제사업설명회 (Korean Session)
		11:30-11:50	SP1-1	Speaker	김희수	한국연구재단 생명과학단 단장	Korea	생명과학단 기초연구사업 소개
		11:50-12:00	-	Q&A	-	-	-	Q&A
		12:00-12:20	SP1-2	Speaker	김상현	한국연구재단 신약학단 단장	Korea	바이오분야 R&D 현황 및 추진계획(신약개발분야 R&D 현황)
		12:20-12:30	-	Q&A	-	-	-	Q&A
May 25 (Tue)	201&202	11:15-12:45	SP2	Organizer	Korea National Institute of Health(KNIH)		Korea	COVID19 and multi-omics study [KNIH joint symposium] (Korean Session)
				Chair	Hyun-Young Park	Korea National Institute of Health(KNIH), Korea	Korea	
		11:15-11:25	SP2-1	Speaker	Sang-Cheol Kim	Division of Healthcare and Artificial Intelligence, Korea National Institute of Health(KNIH)	Korea	Multi-omics data of COVID-19 patients
		11:25-11:45	SP2-2	Speaker	Eui-Cheol Shin	Graduate School of Medical Science and Engineering, KAIST	Korea	Immune landscape analysis of COVID19
		11:45-12:05	SP2-3	Speaker	Nam-Hyuk Cho	Department of Microbiology and Immunology, Seoul National University College of Medicine	Korea	Pathogenic role of humoral immunity in severe COVID-19
		12:05-12:25	SP2-4	Speaker	Junho Chung	Department of Biochemistry and Molecular Biology, Seoul National University College of Medicine	Korea	Deciphering B cell receptor repertoires of COVID-19 patients
		12:25-12:45	SP2-5	Speaker	Woong-Yang Park	Geninus Inc.	Korea	Multi-omics profiling of peripheral immune system in response to SARS-CoV2 infections
May 25 (Tue)	203&204	12:00-12:50	Workshop	Speaker	Jiwon Sarah Choi	Shimadzu Scientific Korea Corp.	Korea	차세대 유전자가위 CRISPR PLUS 단백질 개발과 이의 활용

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May 25 (Tue)	205	12:00-12:50	Workshop	Speaker	Young Woo Park	Y-Biologics Inc.	Korea	A renowned biotech company in South Korea for its expertise in antibody science
May 25 (Tue)	105&110	13:00-15:00	ST2	Organizer & Chair	Youngmee Jee	Institut Pasteur Korea (Chief Executive Officer)	Korea	[Institut Pasteur Korea] Emerging Opportunities for Drug Discovery on Infectious Diseases
				Chair	Inhee Choi	Institut Pasteur Korea (Medicial Chemistry)	Korea	
		13:00-13:30	ST2-1	Speaker	Charles Mowbray	Drugs for Neglected Diseases initiative (Discovery Director)	Switzerland	Drug Discovery for NTDs and Global Pandemics
		13:30-14:00	ST2-2	Speaker	Laura Piddock	Global Antibiotic Research & Development Partnership(Director)	Switzerland	GARDP: filling gaps in the new antibiotic pipeline.
		14:00-14:30	ST2-3	Speaker	Seungtaek Kim	Institut Pasteur Korea (Zoonotic Research Lab)	Korea	Identification of antiviral drug candidates against SARS-CoV-2 from FDA-approved drugs
		14:30-15:00	ST2-4	Speaker	Lak Shin Jeong	Seoul National University (Pharmacy)	Korea	Development of Anti-RNA Virus Nucleosides
May 25 (Tue)	101~104	13:00-15:00	S6	Organizer & Chair	Il-Young Kim	Gachon University School of Medicine	Korea	In vivo and in vitro metabolic flux tracing with stable isotope tracers: from bed to bench
					Cheol Soo Choi	Gachon University School of Medicine	Korea	
		13:00-13:30	S6-1	Speaker	Il-Young Kim	Department of Molecular Medicine, Gachon University	Korea	Extensive utility of stable isotopic tracers in metabolic research: from bedside to bench
		13:30-14:00	S6-2	Speaker	Robert R. Wolfe	Department of Geriatrics, University of Arkansas for Medical Sciences	USA	Use of stable isotopic tracers to estimate optimal dietary consumption of protein and essential amino acids in older individuals
		14:00-14:30	S6-3	Speaker	Marc Hellerstein	Department of Nutritional Sciences and Toxicology, University of California, Berkeley	USA	Measurement of muscle mass and intracellular protein dynamics non-invasively in humans: "virtual biopsy" in pathophysiology and drug development
		14:30-15:00	S6-4	Speaker	Joshua Rabinowitz	Department of Chemistry, Princeton University	USA	Energy sources in tissues and tumors

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May 25 (Tue)	106~109	13:00-15:00	S7	Organizer	In-San Kim	Korea Institute of Science and Technology	Korea	Cancer Immunology
				Organizer & Chair	Kyung-Hee Chun	Yonsei University College of medicine	Korea	
		13:00-13:30	S7-1	Speaker	Byoung Chul Cho	Yonsei University College of Medicine	Korea	Understanding Resistance to Immunotherapy in Lung Cancer
		13:30-13:55	S7-2	Speaker	Inpyo Choi	Korea Research Institute of Bioscience and Biotechnology	Korea	NK cell-based cancer immunotherapy
		13:55-14:20	S7-3	Speaker	Tae Woo Kim	Korea University College of Medicine	Korea	NANOG drives immune-refractory states by blocking anti-tumor immunity cycle
		14:20-14:45	S7-4	Speaker	Chungyong Han	National Cancer Center	Korea	CAR affinity dictates functional threshold and effector quality of CAR-T
		14:45-15:00	Short talk	Speaker	Eun Jung Lee	Korea University College of Medicine	Korea	Activation of Beta 2 Adrenergic Receptor in Osteoblast Contribute to Bone Metastasis Progression via Upregulation of Myeloid-Derived Suppressor Cells
May 25 (Tue)	201&202	13:00-15:00	S8	Organizer & Chair	Ki-Jun Yoon	Department of Biological Sciences, KAIST	Korea	The Epitranscriptome in Development and Disease
		13:00-13:30	S8-1	Speaker	Chengqi Yi	School of Life Sciences, Peking University	China	Mapping the functional m6Am methylome in the mammalian transcriptome
		13:30-14:00	S8-2	Speaker	Sung Wook Chi	School of Life Science and Biotechnology, Division of Life Sciences, Korea University	Korea	Position-specific oxidation of miR-1 encodes cardiac hypertrophy
		14:00-14:30	S8-3	Speaker	Hyesik Chang	Department of Biological Sciences, Seoul National University	Korea	Versatile Platform for Single-Molecule Detection of RNA Modifications
		14:30-15:00	S8-4	Speaker	Dónal O'Carroll	MRC Centre for Regenerative Medicine, Institute for Regeneration and Repair, The University of Edinburgh	UK	The <i>in vivo</i> role of TUT4/7-mediated mRNA 3' uridylation
May 25 (Tue)	203&204	13:00-15:00	S9	Organizer & Chair	Myung Hee Kim	KRIBB	Korea	Bioimaging from Protein Structure to Cell Biology
		13:00-13:30	S9-1	Speaker	Bruno Humbel	Okinawa Institute of Science and Technology Graduate University (OIST)	Japan	Volume Microscopy in Cell Biology, an Overview
		13:30-14:00	S9-2	Speaker	Yoshiyuki Fukuda	University of Tokyo	Japan	Cryo electron tomography of cellular specimens
		14:00-14:30	S9-3	Speaker	Sungchul Hohng	Seoul National University	Korea	The Hidden Mechanisms of Bacterial Transcription Termination Revealed by Single-Molecule Fluorescence Measurements
		14:30-15:00	S9-4	Speaker	Ji-Joon Song	KAIST	Korea	A reverse structural biology to investigate molecular architectures

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May 25 (Tue)	205	13:00-15:00	S10	Organizer & Chair	Eui-Cheol Shin	Graduate School of Medical Science and Engineering, KAIST	Korea	COVID-19 and Immune Responses [KSMCB Joint Symposium]
		13:00-13:30	S10-1	Speaker	Akiko Iwasaki	Department of Immunobiology, Yale University School of Medicine	USA	Immune responses to SARS-CoV-2
		13:30-14:00	S10-2	Speaker	Young Ki Choi	College of Medicine, Chungbuk National University	Korea	Critical role of neutralizing antibody for SARS-CoV-2 reinfection and transmission
		14:00-14:30	S10-3	Speaker	Antonio Bertoletti	Emerging Infectious Diseases Program, Duke-NUS Medical School	Singapore	The role of virus specific T cells in SARS-CoV-2 infection
		14:30-15:00	S10-4	Speaker	Eui-Cheol Shin	Graduate School of Medical Science and Engineering, KAIST	Korea	Characteristics of SARS-CoV-2-specific T cell responses
May 25 (Tue)	101~104, 106~109	15:30-16:10	PL1	Chair	Jungmin Choi	Korea University	Korea	Plenary Lecture 1
				Speaker	Jeffrey Friedman	Rockefeller University	USA	Leptin and the Homeostatic Control of Body Weight
May 25 (Tue)	101~104, 106~109	16:10-16:50	PL2	Chair	Woong-Yang Park	Samsung Medical Center	Korea	Plenary Lecture 2
				Speaker	Muzlifah Haniffa	Newcastle University	UK	Decoding the developing human immune system
May 25 (Tue)	101~104, 106~109	17:00-17:40	PL5	Chair	Hansoo Park	Department of Biomedical Science and Engineering, GIST	Korea	Plenary Lecture 5
				Speaker	Eran Elinav	Weizmann Institute of Science	Israel	HOST MICRO BIOME INTERACTIONS IN HEALTH AND DISEASE
May 26 (Wed)	105&110	9:00-11:00	ST3	Organizer	Je Kyung Seong	Seoul National University	Korea	[KPMC] Preclinical Trial for COVID19 infection (Korean Session)
				Chair	Youngmee Jee	Institut Pasteur Korea (Chief Executive Officer)	Korea	
		9:00-9:30	ST3-1	Speaker	Sun Bean Kim	College of Medicine, Korea University	Korea	Clinical aspects in COVID19 infected patients and future perspectives
		9:30-10:00	ST3-2	Speaker	Dae Sup Song	College of Pharmacy, Korea University	Korea	History and trial-and-error of antiviral drugs for coronaviruses and animal models used to assess COVID-19 antiviral candidate
		10:00-10:30	ST3-3	Speaker	Je Kyung Seong	College of Veterinary Medicine, Seoul National University	Korea	Preclinical Test for Drug Screening and Vaccine Development of SARS-COV
		10:30-11:00	ST3-4	Speaker	Ran Gao	Institute of Laboratory Animal Sciences (ILAS), Chinese Academy of Medical Sciences (CAMS)	China	Establishment NHP model on COVID-19 and vaccine evaluations

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May 26 (Wed)	101~104	9:00-11:00	S11	Organizer & Chair	Hyunsook Lee	Seoul National University	Korea	Organoid and Regenerative Medicine
		9:00-9:24	S11-1	Speaker	Ki-Jun Yoon	Department of Biological Sciences, KAIST	Korea	Deciphering the neural epitranscriptome using mouse and human brain organoid models
		9:24-9:48	S11-2	Speaker	Yoonsung Lee	IBS	Korea	Hematopoietic Stem Cell-Dependent Notch Transcription is Mediated by p53 through the Histone Chaperone Supt16h
		9:48-10:12	S11-3	Speaker	Kunwoo Shin	POSTECH	Korea	Creation of tissue assembloids that recapitulate in vivo tissue dynamics and cancer
		10:12-10:36	S11-4	Speaker	Joo Kyung Park	Samsung Medical Center	Korea	Establishment of PDAC Organoids Model using EUS-guided Fine Needle Biopsy: A New Window into understanding PDAC and Drug Discovery
		10:36-11:00	S11-5	Speaker	Yesl Jun	Korea Research Institute of Chemical Technology	Korea	Establishment of vascularized pancreatic islet organoids from human pluripotent stem cells
May 26 (Wed)	106~109	9:00-11:00	S12	Organizer & Chair	Je-Wook Yu	Yonsei University College of Medicine	Korea	T cell-mediated immune responses in the immunological diseases
					Ji-Hwan Ryu	Yonsei University College of Medicine	Korea	
		9:00-9:30	S12-1	Speaker	Yeonseok Chung	College of Pharmacy, Seoul National University	Korea	Type 17 immunity promotes the exhaustion of CD8+ T cells
		9:30-10:00	S12-2	Speaker	Je-Min Choi	Department of Life Science, Hanyang University	Korea	Steady-state memory-like CD4 T cells are bystander-activated to contribute autoimmune disease
		10:00-10:30	S12-3	Speaker	Myunghoo Kim	Department of Animal Science, Pusan National University	Korea	Defining the molecular and cellular network between the host and microbiota in regulation of inflammation
		10:30-11:00	S12-4	Speaker	June-Yong Lee	Department of Microbiology, Yonsei University College of Medicine	Korea	ROR $\alpha$ enforces stability of the T-helper-17 cell effector program
May 26 (Wed)	201&202	9:00-11:00	S13	Organizer & Chair	Byung-Hoon Lee	Department of New Biology, DGIST	Korea	Chemical Modulation of Cellular Proteolysis in Health and Disease
		9:00-9:30	S13-1	Speaker	Yong Tae Kwon	Department of Biomedical Sciences, Seoul National University	Korea	AUTOTAC (autophagy-targeting chimera): a new platform technology in drug development based on targeted protein degradation via autophagy
		9:30-10:00	S13-2	Speaker	Hyun-Suk Lim	Department of Chemistry, POSTECH	Korea	Targeted degradation of the SRC-1 transcription co-activator
		10:00-10:30	S13-3	Speaker	Wankyu Kim	Ewha Womans University (Dept of Life Science)	Korea	Genome-scale Understanding of Drug Actions – KMAP Project
		10:30-11:00	S13-4	Speaker	Donghyuk Shin	Yonsei University (Dept of Systems Biology)	Korea	Regulation of host-immune system by Papain-like protease (PLpro) from SARS-CoV-2

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May 26 (Wed)	203&204	9:00-11:00	S14	Organizer & Chair	Sang Won Kang	Ewha Womans University/Department of Life Science	Korea	Vascular Biology
		9:00-9:30	S14-1	Speaker	Hanjoong Jo	Emory University/Division of Cardiology	USA	Disturbed Flow, Endothelial Reprogramming, and Atherosclerosis –Lessons from Single-Cell Genomics Study
		9:30-10:00	S14-2	Speaker	Goo Taeg Oh	Ewha Womans University/Department of Life Science	Korea	Peroxisredoxin 3 protect myocardial infarction via regulation of PINK1 stability
		10:00-10:30	S14-3	Speaker	Sun Sik Bae	Pusan University Medical College	Korea	Regulation of Vascular Smooth Muscle Cell Contraction and Proliferation by Phospholipase C-β3
		10:30-11:00	S14-4	Speaker	Sang Won Kang	Ewha Womans University/Department of Life Science	Korea	Identification of microRNAs that regulate remodeling of arterial vascular structure
May 26 (Wed)	205	9:00-11:00	S15	Organizer & Chair	Hansoo Park	Department of Biomedical Science and Engineering, GIST	Korea	Microbiome and Translational Medicine
		9:00-9:30	S15-1	Speaker	Sunjae Lee	GIST	Korea	Big Data, Big Opportunity, Future of Human Microbiome Study
		9:30-10:00	S15-2	Speaker	Kyoung Wan Yoon	Hoseo University School of Life and Food Sciences	Korea	Gut microbiome and Cancer Immunotherapy
		10:00-10:30	S15-3	Speaker	A Ra Koh	Sungkyunkwan Univ. Graduate School of Medicine	Korea	Microbiome-based therapeutics with focusing on microbial metabolites
		10:30-11:00	S15-4	Speaker	Tae Gyu Oh	Salk Institute for Biological Studies	USA	How to Predict Liver Cirrhosis using Non-Invasive Stool-based Microbiome
May 26 (Wed)	105&110	11:10-12:50	ST4	Organizer & Chair	Jay Kim	President, KABIC (Korean American Bio Industry Council)	USA	Bio Entrepreneurship – Boston Style
		11:10-11:30	ST4-1	Speaker	Jay Kim	President, KABIC (Korean American Bio Industry Council)	USA	Introduction: Boston Bio Innovation Cluster: Known Secrets & Hidden Secrets
		11:30-11:50	ST4-2	Speaker	John Koh	CEO, Genosco	USA	The Entrepreneurs: Why is their success chance higher in Boston?
		11:50-12:10	ST4-3	Speaker	Spencer Nam	Managing Partner, KSV Investment	USA	The Ecosystem: How does Boston's ecosystem support its entrepreneurs?
		12:10-12:30	ST4-4	Speaker	Curtis Sprouse	Chairman, IBE (Institute for Biomedical Entrepreneurship)	USA	Educating Bio Entrepreneurs: Boston's Institute for Biomedical Entrepreneurship
		12:30-12:50	Q&A	Speaker	Q&A			Q&A: Can we build a successful bio innovation cluster in Korea?



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May 26 (Wed)	201&202	11:30-11:50	Moosa Award	Chair	Seung-Taek Lee	Yonsei University	Korea	Moosa Award (Korean Session)
		11:30-11:50	Moosa Award	Speaker	Jang-Soo Chun	Gwangju Institute of Science and Technology	Korea	Molecular mechanisms of osteoarthritis pathogenesis
		11:50-12:10	Donghun Award Lecture	Chair	HoJeong Kwon	Yonsei University	Korea	Donghun Award Lecture (Korean Session)
		11:50-12:10	Donghun Award Lecture	Speaker	Hyeseong Cho	Ajou University School of Medicine	Korea	Toward understanding genomic instability at the chromatin
		12:10-12:30	Sasuk Award Lecture	Chair	Jeong Ho Lee	KAIST	Korea	Sasuk Award Lecture (Korean Session)
		12:10-12:30	Sasuk Award Lecture	Speaker	Sangsu BAE	Hanyang University	Korea	Current status and challenges of genome editing tools
May 26 (Wed)	101~104	12:00-12:50	Workshop	Speaker	Siyoung Lee	Geninus Inc.	Korea	Single Cell : Powerful technique for improving our understanding of human health
May 26 (Wed)	203&204	12:00-12:50	Workshop	Speaker	Sun-Hwa Lee, Young-Hee Roh	KRIBB	Korea	LMO safety management and securing biosafety
May 26 (Wed)	105&110	13:00-15:00	S16	Organizer & Chair	Seongbae Suh	KAIST	Korea	Organ-to-Organ Communication
		13:00-13:30	S16-1	Speaker	Stephan Liberles	Harvard University	USA	Sensory neurons that guard the airways
		13:30-14:00	S16-2	Speaker	Qili Liu	UCSF	USA	Cellular and Molecular basis of protein-specific appetite
		14:00-14:30	S16-3	Speaker	Won-suk Chung	KAIST	Korea	Phagocytic roles of glia in healthy and diseased brains
		14:30-14:45	S16-4	Speaker	Yeong Shin Yim	MIT	USA	Activation of Th17cell/IL17a pathway in periphery promotes sociability in mouse models of neurodevelopmental disorders
		14:45-15:00	S16-5	Speaker	Boram Kim	KAIST	Korea	The microbiome-gut-brain axis mediating the desire and detection of essential amino acids in Drosophila
May 26 (Wed)	101~104	13:00-15:00	S17	Organizer & Chair	Ja-Hyun Baik	Korea University, Dept. of Life Sciences	Korea	Circuits and Signaling in Reward-Related Behaviors
		13:00-13:30	S17-1	Speaker	Ja-Hyun Baik	Korea University, Dept. of Life Sciences	Korea	Dopamine signaling in food reward
		13:30-14:00	S17-2	Speaker	Feifei Wang	School of Basic Medical Sciences, Fudan University, China	China	Signal transduction in addictive drug or cue-induced synaptic plasticity
		14:00-14:30	S17-3	Speaker	Joung-Hun Kim	Department of Life Sciences, POSTECH	Korea	Cocaine-triggered formation of silent synapses for behavioral changes
		14:30-15:00	S17-4	Speaker	Ja Wook Koo	Emotion, Cognition and Behavior Research group, Korea Brain Resaerch Institute	Korea	Neural circuits and molecular mechanisms of social hierarchy-based individual difference

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May 26 (Wed)	106~109	13:00-15:00	S18	Organizer & Chair	Jae Ho Kim	Pusan National University School of Medicine	Korea	Stem Cells and Regenerative Medicine
		13:00-13:30	S18-1	Speaker	In-Hyun Park	Yale School of Medicine	USA	Dysregulation of BRD4 underlies in abnormal MeCP2 mutant neurons
		13:30-13:55	S18-2	Speaker	Han-Jin Park	Korea Institute of Toxicology	Korea	Human pluripotent stem cell-derived hepatic organoids for toxicity testing
		13:55-14:20	S18-3	Speaker	Hun-Jun Park	Catholic University of Korea	Korea	Simultaneous induction of vasculogenesis and angiogenesis elicits comprehensive cardiac repair following myocardial infarction
		14:20-14:45	S18-4	Speaker	Jae Ho Kim	Pusan National University School of Medicine	Korea	Regulation of the protein stability of stemness factors in stem cells
		14:45-15:00	S18-Short talk	Speaker	Nayeon Lee	Pusan National University School of Medicine	Korea	Efficient generation of functional midbrain dopamine neuron based on a spotting method
May 26 (Wed)	201&202	13:00-15:00	S19	Organizer & Chair	Seung-Jae V. Lee	Department of Biological Sciences, KAIST	Korea	Mechanistic Insights into Aging and Age-associated Diseases
		13:00-13:30	S19-1	Speaker	Seung-Jae V. Lee	Department of Biological Sciences, KAIST	Korea	Regulation of immune aging and healthy longevity by insulin/IGF-1 signaling in C. elegans
		13:30-14:00	S19-2	Speaker	Yun-Sil Lee	Seoul National University, School of Dentistry, Department of Molecular Genetics	Korea	GDF11 promotes bone formation in contrast to its homolog, myostatin
		14:00-14:30	S19-3	Speaker	Jin-Hong Kim	Department of Biological Sciences, College of Natural Sciences, Seoul National University	Korea	Development of disease-modifying therapy for aging-associated connective tissue diseases
		14:30-15:00	S19-4	Speaker	David Vilchez	University of Cologne, Cellular Stress Responses in Aging-Associated Diseases, Germany	Germany	Proteostasis of aging and stem cells
May 26 (Wed)	203&204	13:00-15:00	S20	Organizer & Chair	Seung-Hyo Lee	KAIST (Graduate School of Medical Science and Engineering)	Korea	Perspectives of Matrix Biology in Human Diseases
		13:00-13:25	S20-1	Speaker	Kang Yell Choi	Yonsei University (College of Life Science and Biotechnology)	Korea	Tissue restoration by safe activation of the Wnt/ $\beta$ -catenin pathway; A regenerative therapeutic approach targeting CXXC5
		13:25-13:50	S20-2	Speaker	Yongsung Hwang	Soonchunhyang Institute of Medi-bio Science(SIMS), Soonchunhyang University	Korea	Understanding the roles of microenvironment in fibrotic diseases
		13:50-14:05	S20-3	Speaker	Kihyuk Shin	Department of Dermatology, Pusan National Univ. Hospital	Korea	T cell zone fibroblastic reticular cells (TRCs) of lymph nodes regulate differentiation of CD4+ T cells through CD25
		14:10-14:35	S20-4	Speaker	Young Ae Joe	Cancer Research Institute & Dept. of Medical Lifescience, The Catholic University of Korea	Korea	Role of peroxidasin, a matrix peroxidase, in extracellular matrix assembly and organ development
		14:35-15:00	S20-5	Speaker	Seung-Hyo Lee	KAIST (Graduate School of Medical Science and Engineering)	Korea	Mitochondrial Reactive Oxygen Species Induced by NADPH Oxidase 2 Deficiency Enhances Th1/Th17 Immune Responses through SHP1/JAK/STAT Signaling

Date	Room	Time	Session No	Part	Name	Affiliation	Nationality	Title
May 26 (Wed)	205	13:00-15:00	S21	Organizer & Chair	Man-Seong Park	Korea Universty College of Medicine	Korea	Infection & Immunity
		13:00-13:30	S21-1	Speaker	Nam-Hyuk Cho	Seoul National University College of Medicine	Korea	Vaccine Development for Scrub Typhus
		13:30-14:00	S21-2	Speaker	Hyung-Joo Kwon	Hallym University College of Medicine	Korea	Discovery of cellular and viral targets for SARS-CoV-2 antivirals
		14:00-14:30	S21-3	Speaker	Chulwoo Kim	Korea Universty College of Medicine	Korea	Understanding age-related decline of T cell immunity to viral infections
		14:30-15:00	S21-4	Speaker	Jae Myun Lee	Yonsei University College of Medicine	Korea	Inhibition of SARS-Cov-2 infection through regulation of cell membrane fusion process between virus and cells
May 26 (Wed)	101~104, 106~109	15:30-16:10	PL3	Chair	Greg Seongbae Suh	KAIST	Korea	Plenary Lecture 3
				Speaker	Stephen Simpson	The University of Sydney	Australia	The Nutritional Geometry of Aging and Metabolic Health
May 26 (Wed)	101~104, 106~109	16:10-16:50	PL4	Chair	Sung Bae Lee	DGIST	Korea	Plenary Lecture 4
				Speaker	Juergen A. Knoblich	IMBA – Institute of Molecular Biotechnology, Vienna, Austria	Austria	Using cerebral organoids to discover human-specific mechanisms of brain development
May 27 (Thu)	Online	All Day	YSP-01	Speaker	Jungmin Kim	Yonsei University College of Medicine	Korea	Acetylated alpha-tubulin regulates survival of cancer stem cells (Cancel)
			YSP-02	Speaker	Kieun Bae	Konkuk University	Korea	Oncogenic fusion of BCAR4 activates EGFR signaling and is sensitive to dual inhibition of EGFR/HER2
			YSP-03	Speaker	Ji-Yoon Lee	Research Center, Korea Research Institute of Bioscience and	Korea	POLYUNSATURATED FATTY ACID BIOSYNTHESIS PATHWAY DETERMINES FERROPTOSIS SENSITIVITY IN GASTRIC CANCER
			YSP-04	Speaker	AMOS Lee	Seoul National University	Korea	SPATIAL EPITRANSCRIPTOMICS REVEALS A-TO-I EDITOME IN RELATION TO CANCER STEM CELL-LIKE MICRONICHES
			YSP-05	Speaker	Seung-Kyoon Kim	POSTECH	Korea	FUNCTIONAL COORDINATION OF BET FAMILY PROTEINS UNDERLIES ALTERED TRANSCRIPTION ASSOCIATED WITH MEMORY IMPAIRMENT IN FRAGILE X SYNDROME
			YSP-06	Speaker	Sooyeon Yoo	Seoul National University Hospital	Korea	CONTROL OF NEUROGENIC COMPETENCE IN MAMMALIAN HYPOTHALAMIC TANYCYTES
			YSP-07	Speaker	Joon-Hyuk Lee	KAIST	Korea	Astrocytes phagocytose adult hippocampal synapses for circuit homeostasis
			YSP-08	Speaker	Chang Geon Chung	DGIST	Korea	CYTOSOLIC CALCIUM REGULATES TDP-43 LOCALIZATION THROUGH CALPAIN-A AND IMPORTIN $\alpha$ 3
			YSP-09	Speaker	Mahmoud Ahmed	Gyeongsang National University	Korea	HIERARCHICAL REGULATION OF AUTOPHAGY DURING ADIPOCYTE DIFFERENTIATION
			YSP-10	Speaker	Gyeongyun Go	Soonchunhyang University College of Medicine	Korea	GE11-expressing bovine milk-derived extracellular vesicles for EGFR targeted delivery of oxaliplatin to colorectal cancer

Date	Room	Time	Session No	Part	Name	Affiliation	Nationality	Title
			YSP-11	Speaker	Ja-Hyun Koo	Hanyang University	Korea	MACROPHAGE-PREFERABLE DELIVERY OF THE NLRX1 PROTEIN AMELIORATES LETHAL SEPSIS BY REGULATING NF- $\kappa$ B AND INFLAMMASOME SIGNALING ACTIVATION
			YSP-12	Speaker	Hye Jin Kim	Seoul National University, Korea Institute Oriental Medicine	Korea	Cinnamomum verum-derived O-Methoxycinnamaldehyde is an anti-inflammatory novel T lymphocyte NFAT regulator with therapeutic potential in the context of depressive disorder
			YSP-13	Speaker	Je-Kyung Ryu	TU Delft	Netherlands	Fundamental principles of SMC-protein-mediated chromosome organization
			YSP-14	Speaker	Hye Young Cho	Korea University	Korea	STRUCTURAL ANALYSIS OF THE MOLECULAR INTERACTION BETWEEN AIMP2-DX2 AND HSP70 ON THE CANCER DEVELOPMENT
			YSP-15	Speaker	Sungwoo Choi	KAIST	Korea	ADIPOCYTE HIPPO SIGNALING COORDINATES ADIPOSE TISSUE HOMEOSTASIS AND SYSTEMIC METABOLISM BY REGULATING ADIPOCYTE DEDIFFERENTIATION AND LEPTIN