

Day 1 : Aug. 24 (Wed.) 2022				
Registration 09:00~09:30				
Opening Ceremony 09:30~10:00				
Chairperson	Sang Taek Jung	Korea University	Associate Professor	
Speaker1	Im Joo Rhyu	BK21 FOUR KU Graduate Program for Convergence & Translational Biomedicine	Director	Opening Remarks
Speaker2	Jin Taek Chung	Korea University	President	Congratulatory Remarks
Session A	Next Normal Biomedical Science for Treatment of Refractory Diseases			BK21 FOUR KU Graduate Program for Convergence & Translational Biomedicine
Date	Aug. 24 (Wed.)	Time	10:00~12:00	
Chairperson	Jason K. Sa	Korea University	Assistant Professor	
Speaker1	Antonio Iavarone	Columbia University	Professor	Next generation multi-omics classification and therapeutic stratification of glioblastoma
Speaker2	Hoon Kim	Sungkyunkwan University	Associate Professor	Extrachromosomal DNAs in cancer
Speaker3	Jinkuk Kim	KAIST	Assistant Professor	Antisense oligonucleotide (ASO) as an artificial non-coding RNA to treat diseases
Speaker4	Hee Jin Cho	Kyungpook National University	Assistant Professor	The role of tumor microenvironment in cancer treatment
Session B	Next Normal Healthcare System for Sustainability and Inclusion			BK21 FOUR R&E Center for Learning Health Systems
Date	Aug. 24 (Wed.)	Time	13:00~15:00	
Chairperson	Haejoo Chung	Korea University	Professor / Director	
Speaker1	Sherri Rose	Stanford University	Associate Professor	Machine Learning and Marginalized Groups in Health Care
Speaker2	Sungroul Kim	Soonchunhyang University	Professor	Alliance of industry-academy cooperations for the establishment of OneHealth City Mega Cluster
Speaker3	Chol Shin	Korea University	Professor	The present and future of the Ansan Cohort
Speaker4	Sung Ok Chang	Korea University	Professor	Nursing and Interprofessional Education
Session C	The Roles of the BK21 R&E Center for Next Normal Science and Technology			
Date	Aug. 24 (Wed.)	Time	15:20~17:30	
Chairperson	Sang Taek Jung	BK21 FOUR KU Graduate Program for Convergence & Translational Biomedicine	Associate Professor	
Speaker1	Im Joo Rhyu	BK21 FOUR KU Graduate Program for Convergence & Translational Biomedicine	Director	Introduction of BK21 FOUR R&E Centers and Discussion
Speaker2	Haejoo Chung	BK21 FOUR R&E Center for Learning Health Systems	Director	
Speaker3	Hana Yi	BK21 FOUR R&E Center for Precision Public Health	Professor	
Speaker4	Jinho Jung	BK21 FOUR R&E Center for Environmental Science and Ecological Engineering	Director	
Speaker5	Seung-Hoi Koo	BK21 FOUR R&E Center for Life Sciences	Director	
Speaker6	Dongkwon Lim	BK21 FOUR Center for Bio-Innovative Advanced Materials	Director	

Day 2 : Aug. 25 (Thu.) 2022

Session D	Next Normal Precision Public Health			BK21 FOUR R&E Center for Precision Public Health
Date	Aug. 25 (Thu.) 2022	Time	10:00~12:00	
Chairperson	Rockli Kim	Korea University	Assistant Professor	
Speaker1	S. V. Subramanian	Havard University	Professor	Bringing individual perspective to population health: A step towards precision public health
Speaker2	Ye-Ji Bang	Seoul National University	Assistant Professor	Bacterial regulation of vitamin A transport and its role in the immunity
Speaker3	Oran Kwon	Ewha Womans Univeristy	Professor	SyHE: Little by little does the trick
Speaker4	Dae Sung Yoon	Korea University	Professor	Biomimetically engineered amyloid-AuNP nanocomplexes for the drug discovery against COVID-X and Neurodegenerative disease
Session E	Next Normal Environmental Science and Ecotechnology			BK21 FOUR R&E Center for Environmental Science and Ecological Engineering
Date	Aug. 25 (Thu.)	Time	13:00~15:00	
Chairperson	Jinho Jung	BK21 FOUR R&E Center for Environmental Science and Ecological Engineering	Professor/ Director	
Speaker1	Taewoo Ryu	Okinawa Institute of Science and Technology	Research Unit Group Leader	Transposable elements associated with ocean acidification in a reef fish
Speaker2	Woo-Keun Kim	Korea Institute of Toxicology	Principal Research Scientist	Developmental neurotoxicity in neuron/astrocyte co-cultured cells and zebrafish
Speaker3	Jinyoung Jeon	Daesang Central Research Institute	Ingredient Research Group Microalgae team Leader	Industrial application of microalgae to functional and nutrition products
Speaker4	Sun-Mi Lee	Korea Institute of Science and Technology	Principal Research Scientist	Sustainable production of fuels and chemicals using engineered microbes
Session F	Young Investigator Presentation for Next Normal Science and Technology			
Date	Aug. 25 (Thu.)	Time	15:20~17:20	
Chairperson	Sang Taek Jung	BK21 FOUR KU Graduate Program for Convergence & Translational Biomedicine	Associate Professor	
Speaker1	Migyeong Jo	BK21 Graduate Program, Department of Biomedical Sciences, Korea University College of Medicine	Research Professor	Engineered Antibody Fc Variants for Boosting Therapeutic Potency
Speaker2	Sung-Min Son	BK21 FOUR R&E Center for Learning Health Systems	Research Professor	The survey about the utilization of community service of the disability with mental illness for forming the community-based customized mental health living lab
Speaker3	Sungmi Choi	BK21 FOUR R&E Center for Precision Public Health	Research Professor	The Role of Human Microbiome in Respiratory Diseases
Speaker4	Jae-Seung Yoon	BK21 FOUR R&E Center for Environmental Science and Ecological Engineering	Research Professor	An Introduction to the Future Projection of Extreme Weather: Timing of Unprecedented Climate
Speaker5	Kyung Min Kim	BK21 FOUR R&E Center for Life Sciences	Research Professor	The role of TAZ in muscle stem cell activation
Speaker6	Won Bae Han	BK21 FOUR Center for Bio-Innovative Advanced Materials	Research Professor	Biodegradable elastomers for wearable and bio-integrated electronics

Day 3 : Aug. 26 (Fri.) 2022

Session G	Emerging Topics in Life Sciences			BK21 FOUR R&E Center for Life Sciences
Date	Aug. 26 (Fri.) 2022	Time	10:00~12:00	
Chairperson	Chungho Kim	BK21 FOUR R&E Center for Life Sciences	Professor	
Speaker1	Dae-Kyum Kim	Roswell Park Comprehensive Cancer Center	Assistant Professor	Environment-dependent binary protein interactome of a cell
Speaker2	Jung-Shin Lee	Kangwon National Univeristy	Professor	Factors determining histone H3K4 trimethylation
Speaker3	Junho Hur	Hanyang University	Associate Professor	Allele-specific CRISPR genome editing with single-base precision
Speaker4	Yoosoo Yang	Korea Institute of Science and Technology	Principal Research Scientist	Emerging prospects of extracellular vesicles in drug delivery
Session H	Recent advances in biomedical engineering and biotechnology			BK21 FOUR Center for Bio-Innovative Advanced Materials
Date	Aug. 26 (Fri.)	Time	13:00~15:00	
Chairperson	Donghwee Kim	BK21 FOUR Center for Bio-Innovative Advanced Materials	Associate Professor	
Speaker1	Sangmoo Jeong	Johns Hopkins University	Assistant Professor	Cancer metabolism regulated by intercellular adhesion protein, E-cadherin
Speaker2	Yongju Kim	BK21 FOUR Center for Bio-Innovative Advanced Materials	Associate Professor	Biomedical supramolecular materials based on synthetic amphiphiles
Speaker3	Hyunjoon Kong	KU-KIST Graduate School of Converging Science and Technology	Visiting Professor	Self-Loomotive Anti-biofilm Microrobot (SLAM)
Speaker4	Nakwon Choi	KU-KIST Graduate School of Converging Science and Technology	Professor	Hydrogel-based bioassay developments for in vitro diagnostics and prognosis
Session I	Graduate Student Presentations for Next Normal Science and Technology			
Date	Aug. 26 (Fri.)	Time	13:00~15:00	
Chairperson	Jason K. Sa	BK21 FOUR KU Graduate Program for Convergence & Translational Biomedicine	Assistant Professor	
Speaker1	Suyeon Kim	BK21 FOUR KU Graduate Program for Convergence & Translational Biomedicine	Doctoral Student	LC3B upregulation by NANOG promotes immune resistance and stem-like property of immune-refractory tumor cells through hyperactivation of EGFR signaling
Speaker2	Ji Yoon Lee	BK21 FOUR KU Graduate Program for Convergence & Translational Biomedicine	Master's Student	Genomic diversification of breast adenocarcinoma patients based on age and ethnic ancestry
Speaker3	JungYeon Yang	BK21 FOUR R&E Center for Learning Health Systems	Doctoral Student	Digital mental health research from the Living Lab perspective: A scoping review
Speaker4	Yun-Hee Choi	BK21 FOUR R&E Center for Learning Health Systems	Doctoral Student	Changes in health risks of pest control and disinfection workers after the COVID-19 outbreak in South Korea
Speaker5	Ranyeong Kim	BK21 FOUR R&E Center for Precision Public Health	Doctoral Student	Association Between Intimate Partner Violence and Suicidal Ideation Among Female and Male Adults in South Korea: A Nationally Representative Longitudinal Study
Speaker6	Jong-Won Jeon	BK21 FOUR R&E Center for Precision Public Health	Doctoral Student	Photocurable 3D plotting technique for microporous shell / hollow core hydroxyapatite scaffolds using core-shell freedrod
Speaker7	Changhae Kim	BK21 FOUR R&E Center for Environmental Science and Ecological Engineering	Master's Student	Effect of Polyethylene Microplastic Fragments and Benzophenone-3 Additive on Daphnia magna Population
Speaker8	Yun Hwan Park	BK21 FOUR R&E Center for Environmental Science and Ecological Engineering	Doctoral Student	Remediation of harmful cyanobacteria-contaminated water using reusable polyethyleneimine-modified polyvinyl chloride adsorbent
Speaker9	Bokyeong Kim	BK21 FOUR R&E Center for Life Sciences	Doctoral Student	Brain insulin-dopamine crosstalk in control of compulsive eating behavior
Speaker10	An Vuong Quynh Pham	BK21 FOUR R&E Center for Life Sciences	Doctoral Student	Role of Tie2 signaling in psoriasis
Speaker11	Tae-Min Jang	BK21 FOUR Center for Bio-Innovative Advanced Materials	Doctoral Student	Expandable and implantable bio-electronic system for analyzing and regulating real-time activity of the urinary bladder
Speaker12	Seong-Beom Han	BK21 FOUR Center for Bio-Innovative Advanced Materials	Doctoral Student	Modulation of Cell Migration via the Selective Rupture of Double-stranded DNA