

SMC SAIST Dept. of Health Sciences & Technology Faculty

Last Name	First Name	Position (title)	Specialty Interests	Major field (major)	Research Field	E-mail
KANG	MYUNG-SOO	Research professor	Cell Biology, Chemical Genetics	Health Sciences and Technology	Cancer, Virus, Small Molecule, Inhibitor, Target Protein, EBV, Cancer Stem Cell, Animal Model	myung.kang@samsung.com
KO	JAEWOOK	Visiting Associate professor	Clinical Pharmacology, Pediatrics	Clinical pharmacology	New drug development, Medical device development, Clinical pharmacology, Clinical trials, Pharmaceutical business development	jw0701.ko@samsung.com
GUREL	OGAN	Visiting professor	Molecular Biophysics / Structural Biology	Health Sciences and Technology	Terahertz, Protein electrodynamics, Surgical robotics, Circulating tumor cells, Translational medicine, Mini-MD	ogan.gurel@samsung.com
KOO	HONG HOE	Professor	Pediatrics/Hematology/Oncology	Health Sciences and Technology	Pediatric cancer, Leukemia, Hematopoietic stem cell transplantation, Graft versus host disease, Mesenchymal stem(stromal) cell, Nano-biotechnology, Development of cell therapy	hhkoo@skku.edu
KI	CHANG-SEOK	Associate professor	Molecular Diagnostics/Laboratory Medicine	Laboratory Medicine, Health Sciences and Technology	Molecular Diagnostics, Genetic Diagnosis, Hereditary Disorders, Molecular Microbiology, Clinical Study	changski@skku.edu
KIM	KYEONG KYU	Professor	Structural Biology	Molecular Cell Biology	Protein kinesin, protein quality control, ubiquitination, Z-DNA, Antibiotics, Infectious diseases, Cell receptor, Structure-based drug development, Nanobiotechnology	kyeongkyu@skku.edu
KIM	KYOUNG-MEE	Professor	Pathology	Health Sciences and Technology	Gastric carcinoma, Gastrointestinal stromal tumor, Gene, Mutation, Therapy, Diagnosis, Target	km7353.kim@samsung.com
KIM	DONG IK	Professor	Vascular Surgery	Health Sciences and Technology	Stem cell, Scaffold, Ischemia, Buerger's disease, Atherosclerosis, Stroke	dikim@skku.edu
KIM	MOON KI	Associate professor	Computational Structural Biology	Health Sciences and Technology	Protein Dynamics, Structural Biology, Elastic Network, Multiscale Modeling, Bioengineering	mkkim1212@skku.edu
KIM	SEOK JIN	Associate professor	Hematology-Oncology	Health Sciences and Technology	Lymphoma, Cancer stem cells, Treatment resistance	kstwoh@skku.edu
KIM	SEOK-HYUNG	Associate professor	Cancer stem cell, epithelial-mesenchymal transition	Health Sciences and Technology	Cancer stem cell, Transcriptional network, EMT(epithelial-mesenchymal transition),	parmenides.kim@samsung.com
KIM	SUNG JOO	Professor	Transplantation Surgery	Transplant Surgery, Health Sciences and Technology	Humanized mice Model	kmhhyj.kim@samsung.com
KIM	YUN-HEE	Professor	Neurorehabilitation of brain disease, Motor and Cognitive rehabilitation	Health Sciences and Technology	Neurorehabilitation, Neuroplasticity, Stroke, functional Magnetic Resonance Imaging (fMRI), Transcranial Magnetic Stimulation (TMS), transcranial Direct Current Stimulation (tDCS), Motor neurorehabilitation, Cognitive neurohabilitation	yun1225.kim@samsung.com
KIM	JAE-HYEON	Associate professor	Endocrinology and Metabolism	Health Sciences and Technology	Islet transplantation, Beta cell differentiation, Quality assessment of islet	jaehyeonmd.kim@samsung.com
KIM	JUNG-SUN	Professor	Pathology	Health Sciences and Technology	Placenta, Inflammation, Pregnancy, Fetus, development, Heart	jsunkim@skku.edu
KIM	JEONG-HOON	Associate professor	Transcriptional regulation, Molecular endocrinology	Health Sciences and Technology	Nuclear receptor, Coactivator, Transcriptional regulation, Gene regulation, Estrogen receptor, Breast cancer	jeong0532.kim@samsung.com
KIM	JONG-WON	Professor	Human Genetics & Genomics, Systems Biology	Health Sciences and Technology	Human genetics	kimjw@skku.edu

KIM	JUNE-SOO	Professor	syncope, autonomic tone, risk factors for cardiovascular events	Health Sciences and Technology	Syncope, Medical cost, Diagnosis, Prognosis, Neurocardiogenic syncope, Vasovagal syncope, Implantable loop recorder, T wave alternans	juneskim@skku.edu
KIM	HYEON-HO	Assistant professor	Molecular Cell Biology	Health Sciences and Technology	Posttranscriptional gene regulation, Cancer development, Metastasis, RNA-binding proteins, miRNAs	hyeonhkim@skku.edu
KIM	HO-JOONG	Professor	pulmonary & Critical Care Medicine	Health Sciences and Technology	Bronchoscopy, Clinical Trial, Ventilator	hjk3425@skku.edu
NA	DUK LYUL	Professor	Neuroscience, Dementia, Cognitive Neurology, Stem cell, Neuromodulation	Health Sciences and Technology	Alzheimer's Disease, Mesenchymal stem cells, Neuroimaging, Device, Sensor/stimulator, Neuromodulation, Cognitive training	dukna@naver.com
NAM	DO-HYUN	Professor	Cancer Stem Cell, Neural Stem Cell, Translational Research	Neurosurgery, Health Sciences and Technology	Cancer stem cell, Neural stem cell, Translational research, Glioblastoma, Regenerative medicine	dhns.nam@samsung.com
ROH	CHEONG-RAE	Professor	Obstetrics, Placenta	Health Sciences and Technology	Placenta, obstetric complication, Prevention & treatment	crroh@skku.edu
MUN	JOUNG-HWAN	Professor	Medical Device, u-health, Biomechanics	Health Sciences and Technology	Medical device, U-health, Biomechanics, Bio-signal processing, SoC, analog/digital filter, Artificial intelligence, Neural network, Digital human modeling, Expert system	mun@skku.edu
PARK SEOK-HEE	SEOK-HEE	Associate professor	Molecular Cellular Biology	Health Sciences and Technology	Negative regulation of innate immune responses and inflammation, TGF-beta/Smad signaling, The inhibitory Smads as therapeutic protein, Mesenchymal stem cells, EMT	parks@skku.edu
PARK	WOONG-YANG	Professor	Molecular genetics	Molecular Cell Biology	Genomics, Cancer, Mendelian disease, Bioinformatics, NGS, Microarray, Personalized medicine	woongyang.park@samsung.com
PARK	WON SOON	Professor	Neonatology	Health Sciences and Technology	Human umbilical cord blood derived mesenchymal stem cells, Newborn, Hyperoxic lung injury, Intraventricular hemorrhage, Perinatal asphyxia, Anti-inflammatory effects	ws123.park@samsung.com
PARK	JAE-HYUNG	Associate professor	Biomaterials, Drug Delivery System, Molecular Imaging	Health Sciences and Technology	Biomaterials, Drug delivery system, Molecular imaging	jhpark1@skku.edu
BANG	OH YOUNG	Associate professor	Neuroscience	Health Sciences and Technology	Stroke, Ischemic stroke, Stem cells, Adult stem cells, Cell therapy, Biomarkers, Neuroimaging	ohyoung.bang@samsung.com
BAE	YOE-SIK	Associate professor	Immunology	Health Sciences and Technology	Chemoattractant, G-protein coupled receptor, Inflammatory diseases, Sepsis, Rheumatoid arthritis, Bioactive peptide, Development of anti-inflammatory drugs	yoesik@skku.edu
BAE	YONG-SOO	Professor	Molecular Immunology on Virus and Dendritic Cells	Health Sciences and Technology	AIDS pathogenesis, Poliovirus vector	ysbae04@skku.edu
BAEK	KWAN-HYUCK	Assistant professor	Cancer biology	Molecular Cell Biology	Down Syndrome, Cancer, DSCR-1, Tumor suppressor, Spontaneous tumor model	khbaek@skku.edu
PAIK	YONG-HAN	Associate professor	Hepatic fibrogenesis and Hepatic carcinogenesis	Health Sciences and Technology	Hepatic fibrogenesis, Oxidative stress, NADPH oxidase, Hepatic carcinogenesis, Cancer stem cell, Clinomics, Gene expression profiling	yh.paik@samsung.com
SUH	MINAH	Associate professor	Neuroscience	Health Sciences and Technology	Translational Neuroscience, Epilepsy, Brain Hypoxia, In vivo Optical Imaging, Electrophysiology, Neural Stem Cell, Electrical Stimulation, Multi-gas Nano Sensor, Cognition, Frontal lobe, Eye Movement	minahsuh@skku.edu
SEO	SUNG WOOK	Assistant professor	Oncology, Bone regeneration	Health Sciences and Technology	Musculoskeletal tumor, Cancer stem cell, Bone regeneration, A novel chemoresistant protein	sungwook.seo@samsung.com
AHN	KANG MO	Professor	Pediatric Allergy	Health Sciences and Technology	Atopic dermatitis, Food allergy, Asthma, environment, Probiotics	kmaped@skku.edu

AHN	MYUNG-JU	Professor	Medical Oncology, Molecular biology	Health Sciences and Technology	Resistance to targeted agent, Biomarker development, Lung cancer, Head and neck cancer, Patient derived cell culture	silkahn@skku.edu
AHN	JEE-YIN	Associate professor	Biochemistry, Neuroscience	Molecular Cell Biology	Neuronal survival, Apoptosis, Axon, Dendrites, Neuronal morphogenesis, Brain diseases	jeeahn@skku.edu
UM	SUNG HEE	Associate professor	Metabolism, Signal transduction, Endocrinology	Molecular Cell Biology	Nutrient and energy homeostasis, Obesity, Diabetes, Metabolic disorders, Signaling pathway	shum@skku.edu
CHOI	AUGUSTINE	Visiting professor	Critical care medicine	Health Sciences and Technology		
WANG	JOON HO	Associate professor	Orthopedic surgery, Knee joint, Sports Medicine, Regenerative Medicine, Medical Device	Health Sciences and Technology	Articular cartilage, Anterior Cruciate Ligament, Mesenchymal Stem Cell, 3D scaffold, 3D cell printing, Navigation surgery, Robotic surgery	mdwang88@gmail.com
YOO	HAE-YONG	Associate professor	Biochemistry & cell biology	Health Sciences and Technology	DNA damage checkpoint, Cell division, genomic integrity, Cancer, Mediator, Protein phosphorylation, DNA repair, Protein-protein interaction	haeyong.yoo@samsung.com
YOON	YEUP	Professor	Molecular & Cellular Biology, Molecular oncology, Antibody engineering	Health Sciences and Technology	Companion diagnosis, Personalized therapy, Antibody discovery & development	benedict.yoon@samsung.com
LEE	KYUNG-HAN	Professor	Molecular imaging	Nuclear Medicine, Health Sciences and Technology	Molecular imaging, Gene imaging, Angiogenesis, Cancer targeting, Cell trafficking	khnm.lee@samsung.com
LEE	KYU-SUNG	Professor	Neuro-urology, Medical device development & clinical trial	Urology, Health Sciences and Technology	Medical device, Benign prostatic hyperplasia, Urinary incontinence, Overactive bladder	ksleedr@gmail.com
LEE	KI YOUNG	Associate professor	Immunology/Innate immunity/Molecular and cellular immunology	Molecular Cell Biology	Innate immunity, NF-kB, MAP3Ks, Humanized mice, Stem cell, Stemness, Cancer therapy	thylee@skku.edu
LEE	NAE-EUNG	Professor	bioelectronic materials, processing, and devices based on semiconductor technology	Health Sciences and Technology	Biomaterials, Semiconductors, Nanomaterials, Bio-field effect transistor (Bio-FET), Biosensors, Bio-microsystems	nelee@skku.edu
RHEE	DONG-KWON	Professor	Molecular/Cellular Microbiology	Health Sciences and Technology	Pneumococcus, Immunity, Decapsulation, Vaccine, Development of chemotherapeutic agents	dkrhee@skku.edu
LEE	MOON-KYU	Professor	Endocrinology and Metabolism	Health Sciences and Technology	Diabetes, Thyroid disease, Hyperlipidemia (hypercholesterolemia), Pituitary disease, Metabolic disease, Obesity, Endocrine disease	mk4132.lee@samsung.com
LEE	BYOUNG-KEE	Visiting Associate professor	Medical Informatics, U-Health, Database, Data mining	medical informatics	Spatial/time-series database, Medical information system integration, International standards, U-Health, PHR, Mobile medical/health services	byoungkeeyi@gmail.com
LEE	SUN-HO	Associate professor	Neurosurgery, Degenerative and traumatic cervical spine disorder	Health Sciences and Technology	Spinal column and spinal cord tumor, Degenerative and traumatic cervical spine disorder, Spinal cord injury and regeneration	sobotta@skku.edu
LEE	WOORYONG	Professor	Colorectal cancer	Health Sciences and Technology	Metastatic colorectal cancer, Personalized medicine, Pre-clinical translational platform, Patient-derived cell, Colorectal cancer animal model, Orthotopic animal model, molecular characterization, FMT	lw555@skku.edu
LEE	WON JAE	Professor	Radiology	Health Sciences and Technology	Abdominal radiology, Hepatobiliary tumors, Liver transplantation, Ultrasound, CT, MRI, Contrast agent, Fusion imaging, 3D imaging, Molecular imaging, Micro-ultrasound, Micro-MRI, Nanoparticles	wonjae0418.lee@samsung.com
LEE	YUN-SONG	Professor	Pharmacology	Health Sciences and Technology	Cigarette smoking, Chronic obstructive pulmonary disease, Protein degradation, Ubiquitination, Cell death, Therapeutic target	yslee@skku.edu

LEE	JEONG EON	Associate professor	Breast Cancer, Molecular Biology	Health Sciences and Technology	Breast cancer, Berberine, Silibinin, Zerumbone, Cancer stem cell, EGFR, Her-2/Her-3	jeongeon.lee@samsung.com
LEE	JEONG-WON	Associate professor	Obsterics%Gynecology, Molecular Medicine ,Cancer biology	Health Sciences and Technology	Research on the foundation of antibody targeted treatment, translational research on gynecologic oncology, Preclinical research, General gynecologic diseases, Gynecologic cancer, Ovarian cancer, Endometrial cancer, Uterine cervical cancer operation, Surgery using robots, Laser treatment, Terus endoscopic surgery, Endoscopic pelvic surgery	garden.lee@samsung.com
LEE	JUNG HEE	Professor	Molecular Imaging	Health Sciences and Technology	MRI, Molecular Imaging, Probe, Mouse model, multi-modal small animal imaging	hijunghee@skku.edu
LEE	JI-EUN	Assistant professor	Genetics/Genomics, Neurobiology, Cell Biology	Health Sciences and Technology	Genetics/Genomics, Primary cilium, Zebrafish, Disease mechanism/modeling	jjeun.lee@skku.edu
LEE	CHANG-WOO	Professor	Molecular Cell Biology	Molecular Cell Biology	Cell cycle and checkpoint, Anti-cancer target genes, Cell death, Genomic instability, Human precursor and adult stem cells	cwlee1234@skku.edu
LEE	CHOONG-EUN	Professor	Cellular Immunology., Tumor Biology	Health Sciences and Technology	Cytokine, Signal transduction, ROS, Immune cell differentiation, Anti-tumor immunity	celee@skku.edu
LIM	HO YEONG	Professor	Colon, Stomach, Liver Cancer, Sarcoma	Health Sciences and Technology	Colorectal cancer, Stomach cancer, Liver cancer, Sarcoma, Spinal tumor, Rare cancer	hoy.lim@samsung.com
LIM	HYO KEUN	Professor	Radiology, Imaging Science	Health Sciences and Technology	Radiofrequency ablation, Cryoablation, High-intensity focused ultrasound, Fusion imaging, Contrast-enhanced ultrasound	hyokeun.lim@samsung.com
CHANG	YUN SIL	Professor	Stem cell transplantation, Neuroscience	Health Sciences and Technology	Newborn animal, Mesenchyme stem cell, Umbilical cord, Anti-inflammation, Angiogenesis, Aveologenesis, Brain injury, Lung injury, Stem cell therapy	cys.chang@samsung.com
CHANG	JONG-WOOK	Visiting professor		Health Sciences and Technology	Alzheimer's disease applying stem cells, development of medicine for Charcot-Marie-Tooth disease, GMP construction	changjw@skku.edu
JEON	EUN-SEOK	Professor	Myocarditis, Enterovirus, Antiviral agents, Cardiomyopathy, Heart failure, Inotrpics	Health Sciences and Technology	Myocarditis, Cardiomyopathy, Virus myocarditis, Heart failure, Antiviral agents, Cardiac stimulants	esjeon@skku.edu
JEON	HONG-JIN	Associate professor	Biological and clinical studies for Depression and Suicide	Health Sciences and Technology	Depression, Suicide, Trauma, Biomarker, BDNF	jeonhj@skku.edu
JUNG	KWANG-HOON		Medical Engineering and Science	Health Sciences and Technology		
JEONG	DONG-SEOP	Associate professor	Cardiac surgery	Health Sciences and Technology	Cardiac surgery, Valve surgery, Coronary artery bypass surgery, Arrhythmia, Atrial fibrillation	valve@skku.edu
CHUNG	MYUNG-JIN	Professor	Radiology	Health Sciences and Technology	Flat panel detector, X-ray physics, Computed tomography	mjchung@skku.edu
JUNG	SIN-HO	Professor	Biostatistic, Bioinformatics	Health Sciences and Technology	Biostatistics, Bioinformatics, Big Data	sinho.jung@samsung.com
JO	DONG-GYU	Associate professor	Molecular Neurobiology	Health Sciences and Technology	Alzheimer, Neurodegenerative diseases, Aging, Cognitive functions, β -amyloid (A β), Apoptosis, Neuron, Secretases, Notch, Oxidative stress	jodg@skku.edu
CHO	YONG-BEOM	Associate professor	Colorectal cancer	Health Sciences and Technology	Metastatic colorectal cancer, Personalized medicine, Pre-clinical translational platform, Patient-derived cell, Colorectal cancer animal model, Orthotopic animal model, Molecular characterization, EMT	gscybb@skku.edu
CHO	JEONG-HEE	VisitingAssistant professor	Molecular Genetics, Oncology, Genetics	Health Sciences and Technology		jeonghee89.cho@samsung.com

CHO	JU-HEE	Assistant professor	Clinical epidemiology, cohort studies, quality of life in cancer patients	Health Sciences and Technology	Clinical research design, cohort studies, Altered appearance of cancer patients, Quality of life, Risk modeling	jh1448.cho@samsung.com
JOO	KYEUNG-MIN	Associate professor	Cancer Stem Cell Biology, Translational Medicine	Health Sciences and Technology	Cancer stem cell, Glioblastoma, Brain metastatic tumor, Targeted therapy, Neural stem cell, Regenerative medicine	kmjoo@skku.edu
CHAI	JONG-SEO	Professor	Department of electrical and Computer Engineering	Health Sciences and Technology	Cyclotron	jschai@skku.edu
CHOI	BYUNG-OK	Professor	Neurology	Health Sciences and Technology	Charcot-Marie-Tooth disease, Genetic disease, Peripheral nervous system, Stem cell, Next generation sequencing, Animal model, Drug development	byungok.choi@samsung.com
CHOE	YEARN-SEONG	Professor	Radiopharmaceutical Chemistry	Health Sciences and Technology	Molecular imaging probe, Radiopharmaceutical, Acetylcholinesterase, β -amyloid plaques, Angiogenesis, Antioxidants, Metabolism, Drug Evaluation	ysnm.choe@samsung.com
CHOE	WOO-SEOK	Associate professor	Protein refolding, biomineralization, biosensors and bioprocess engineering	Health Sciences and Technology	Folding-like-refolding, Biomineralization, Designer biocatalyst, Nanopatterning, Biosensors, Process intensification	checws@skku.edu
CHOI	YOON-LA	Associate professor	Molecular pathology, Cancer genomics	Health Sciences and Technology	Cancer genomics, Molecular pathology, Biomarker, Companion diagnostics, Mesenchymal stem cell	yla.choi@samsung.com
CHOI	JIN-HO	Associate professor	Cardiovascular intervention, cardiovascular imaging	Health Sciences and Technology	Cardiovascular intervention, Computational cardiovascular imaging and modeling	jjin-ho.choi@samsung.com
HA	CHUL-WON	Professor	Orthopedic surgery	Orthopedic Surgery, Health Sciences and Technology	Stem cell reproduction medicine, Artificial knee joint replacement technology, Knee sports damage, Knee arthroscope, Degenerative arthritis	hacw@skku.edu
HAN	YOUNG-YI	Associate professor	Radiation Oncology Physics	Health Sciences and Technology	Radiation Therapy, Image Guided Radiation Therapy, Quality Assurance, Proton therapy	youngyih.han@samsung.com
HONG	KYUNG SUE	Professor	Psychiatry, Neurobehavioral Genomics	Health Sciences and Technology	Neurobehavioral genomics, Pharmacogenomics, Endophenotype, Cognitive neuroscience, Seasonality, Biorhythm, Schizophrenia, Bipolar disorder	kyungsue.hong@samsung.com
HONG	SUNG-HWA	Professor	Hearing Science	Health Sciences and Technology	Audiology, Electrophysiology, Hearing aid, Cochlear implant	hongsh@skku.edu
HONG	SEUNG-BONG	Professor	Neurology (Epilepsy, Sleep medicine)	Health Sciences and Technology	Epilepsy, Sleep, Sleep disorder, MRI, brain SPECT, FDG-PET, Gray matter, White matter, cortical thickness, Insomnia, Obstructive sleep apnea, Narcolepsy, EEG, High frequency EEG, Neuronal activity	sbhong@skku.edu