한국조직공학·재생의학회
Korean Tissue Engineering and Regenerative Medicine Society

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제24차 한국조직공학·재생의학회 학술대회

Innovative Regenerative Medicine for Translation to Human

2024. **05. 02** (목) 오후 2시 ~ **05. 04** (토) 오후 12시

제주, 신화월드

Sessions

바이오패브리케이션, 생체재료·의료기기·약물전달, 줄기세포·세포치료, 조직공학·재생의학, 유전자치료·면역치료, 엑소좀, 오가노이드·장기칩, 수의재생
이비인후과, 치의학, 성형외과·피부과, 정형외과, 심혈관, 신경, 산부인과
한국-대만 국제세션, 정년교수 퇴직기념, (재)범부처재생의료기술개발사업단, 대한신경과학회 공동세션, 산업체, 신진연구자, 학생발표

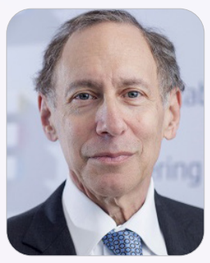
Call for Abstracts

포스터 초록 접수 마감: 2024년 4월 12일(금)
학생 구두발표 초록접수마감 : 2024년 3월 29일(금)

Registration

사전등록마감: 2024년 4월 22일(월)
연수평점: 1~6점(교육 이수시간에 따라 상이함)

Plenary Lecture



Robert S. Langer
MIT



한동근
차의과학대학교

한국조직공학·재생의학회 사무국 TEL : 070-7558-2608, FAX : 070-8258-2608, E-mail : kterms@gmail.com

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제주, 신화월드

Day1 : 5월 2일(목)			
Time	Room A	Room B	Room C
14:00–14:10	Opening Ceremony		
14:10–15:25	**S01** Biofabrication	**S02** Young Investigator	**S03** Student Presentation I
15:25–15:45	*Coffee break*		
15:45–16:25	**Plenary Lecture I**		
16:25–17:40	**S04** Biomaterials & Drug Delivery	**S05** Industry Session	**S06** Student Presentation II

Day2 : 5월 3일(금)			
Time	Room A	Room B	Room C
09:00–10:15	**S07** Stem Cells	**S08** Otorhinolaryngology	**S09** Dentistry
10:15–10:30	*Coffee break*		
10:30–12:10	**S10** Honoring Faculty Milestones	**S11** Plastic Surgery & Dermatology	**S12** Korea–Taiwan International Session
12:10–12:30	**KTERMS General Meeting**		
12:30–13:00	**Luncheon Session**		
13:00–14:00	**Poster Session**		
14:00–14:40	**Plenary Lecture II**		
14:40–15:55	**S13** Tissue Engineering	**S14** Cardiovascular Therapy	**S15** Korean Fund for Regenerative Medicine
15:55–16:15	*Coffee break*		
16:15–17:30	**S16** Gene Therapy & Immunotherapy	**S17** Orthopedic Surgery	**S18** Korean Fund for Regenerative Medicine

Day3 : 5월 4일(토)			
Time	Room A	Room B	Room C
09:00–10:15	**S19** Exosome	**S20** Nerve	**S21** Obstetrics & Gynecology
10:15–11:30	**S22** Organoid & Organ Chip	**S23** Veterinary Regenerative Medicine	**S24** Korean Neurological Association Joint Session
11:30–12:00	Award Ceremony & Closing Remark		

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Day1 : 5월 2일(목)

Time	Room A	Room B	Room C
14:00–14:10	Opening Ceremony		
14:10–15:25	**S01. Biofabrication** **오거나이저 : 장진아**(POSTECH) **좌장 : 서영권**(동국대), **장진아**(POSTECH)	**S02. Young Investigator** **오거나이저 : 신진연구자위원회** **좌장 : 방석호**(성균관대), **김한영**(가톨릭대)	**S03. Student Presentation I** **오거나이저 : 진윤희**(연세의대), **신미경**(성균관대) **좌장 : 신미경**(성균관대), **이준민**(POSTECH)
	14:10–14:35 Polymeric Biomaterials for Next-Generation Soft Electronics **서정목**(연세대)	14:10–14:25 Bioelectrochemical Interfaces: Bridging Digital and Biological Systems **박지민**(KAIST)	14:10–14:20 TBA **Speaker :**
	14:35–15:00 Photo-induced Cross-linking of Unmodified Proteins for the Development of Peptide Immobilized Bioinks: Towards 3D Bioprinted Skeletal Muscle **최영진**(한국재료연구원)	14:25–14:40 Ultrasound Imaging with Magnetic Nanomaterials to Detect the Change of Organoid and Tissue Stiffness **민성진**(성균관대)	14:20–14:30 TBA **Speaker :**
	15:00–15:25 Multiscale Biomedical Engineering Approaches for Subfertility Treatment; Microfluidics and Tissue Regeneration **안중호**(차의대)	14:40–14:55 Radiation Energy-converting Nanoparticles for Cancer Therapy **강미경**(고려대)	14:30–14:40 TBA **Speaker :**
		14:55–15:10 Tissue-like Electronic Materials for Bioelectronics **강지형**(KAIST)	14:40–14:50 TBA **Speaker :**
		15:10–15:25 3D Printed Auxetic Scaffold for the Treatment of Myocardial Infarction **박현지**(아주대)	14:50–15:00 TBA **Speaker :**
			15:00–15:10 TBA **Speaker :**
			15:10–15:20 TBA **Speaker :**
15:25–15:45	*Coffee break*		
15:45–16:25	Plenary Lecture I		**오거나이저 : 조승우** 학술위원장 **좌장 : 임군일**(동국의대)
	Functional Biomaterials for Tissue Regeneration and Biomedical Devices		**Speaker : 한동근**(차의과대)
16:25–17:40	**S04. Biomaterials & Drug Delivery** **오거나이저 : 박경민**(인천대) **좌장 : 박귀덕**(KIST), **박경민**(인천대)	**S05. Industry Session** **오거나이저 : 이재영**(툴젠) **좌장 : 최병현**(인하대), **이재영**(툴젠)	**S06. Student Presentation II** **오거나이저 : 진윤희**(연세의대), **신미경**(성균관대) **좌장 : 진윤희**(연세의대), **정현도**(가톨릭대)
	16:25–16:50 Adhesive Hydrogel Biointerfaces for Sutureless Bioelectronics and Peripheral Nerve Repair **신미경**(성균관대)	16:25–16:50 Enabling Genome Medicine with Polymeric Nanoparticle **김석중**(젠에딧)	16:25–16:35 TBA **Speaker :**
	16:50–17:15 Development of RNA-based Therapeutics/Vaccines **이규리**(경상국립대)	16:50–17:15 Development of Lipid Nanoparticle Formulation for Gene and Cell Therapy **이혁진**(서지넥스)	16:35–16:45 TBA **Speaker :**
	17:15–17:40 Revitalizing Respiratory Function through Nanotherapeutics for ARDS Treatment **이원화**(성균관대)	17:15–17:40 Umblilical Cord Blood-derived Stem Cell Pipelines & Platforms: Opportunities for Collaboration **이승진**(메디포스트)	16:45–16:55 TBA **Speaker :**
			16:55–17:05 TBA **Speaker :**
			17:05–17:15 TBA **Speaker :**
			17:15–17:25 TBA **Speaker :**
			17:25–17:35 TBA **Speaker :**

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Day2 : 5월 3일(금)

Time	Room A	Room B	Room C
09:00–10:15	**S07. Stem Cells** **오거나이저: 양기석**(인천대) **좌장: 황창모**(울산대), **양기석**(인천대)	**S08. Otorhinolaryngology** **오거나이저: 박혜상**(한림의대) **좌장: 권성근**(서울의대), **박혜상**(한림의대)	**S09. Dentistry** **오거나이저: 박준범**(가톨릭의대) **좌장: 윤정호**(전북대치대), **변준호**(경상의대)
	09:00–09:25 Advanced Cell Therapies through Genome Editing **임동현**(성신여대)	09:00–09:25 Development of Space Biology Platform Based on Satellite **박찬흠**(한림의대)	09:00–09:25 Immunogenicity and Antigenicity of Allogeneic Demineralized Dentin Matrix as Osteoinductive Material **구정귀**(서울대치대)
	09:25–09:50 Human Spinal Cord Organoids Model Systems for Human Biology and Medicine **이주현**(KIST)	09:25–09:50 The Journey from Bedside to Bench: Clinician's Perspectives **김한수**(이화의대)	09:25–09:50 Symbiotically Integrating Biomaterials for Oral-Gut Axis: Symbiomer **최성환**(연세대치대)
	09:50–10:15 Synthetic Biology Driven Engineering of Small Molecule Gated T Cell for Next Generation Immune Cell Therapy **이혜선**(KAIST)	09:50–10:15 Stem Cell Spheroid: From Basic Research to Mass Production and Preclinical Application **권성근**(서울의대)	09:50–10:15 Conceptual Advancement in Dental Hard Tissue Regeneration Based on Small Molecule Compounds **김도현**(연세대치대)
10:15–10:30	*Coffee Break*		
10:30–12:10	**S10. Honoring Faculty Milestones** **오거나이저: 신미경**(성균관대) **좌장: 김문석**(아주대), **구승엽**(서울의대)	**S11. Plastic Surgery & Dermatology** **오거나이저: 박지웅**(서울의대) **좌장: 박지웅**(서울의대), **윤정기**(중앙대)	**S12. Korea-Taiwan International Session** **오거나이저: 국제협력위원회** **좌장: 황석연**(서울대), **신흥수**(한양대)
	10:30–10:50 Science, Colleagues, and Memory **조인호**(이화여대, 범부처재생의료기술개발사업단)	10:30–10:55 Development of Anti-Aging Therapeutics Using Extracellular Vesicles **백우열**(연세대)	10:30–11:00 Smart CRISPR for Tissue Regeneration **Andy Yu Chen Hu** (National Tsing Hua University)
	10:50–11:05 Angiogenesis and Tissue regeneration **박윤신**(충북대)	10:55–11:20 3D ASC Spheroids Enhance Adipogenesis and Angiogenesis in Fat Graft **김일국**(영남대)	11:00–11:30 Infrapatellar Fat Pads-derived Stem Cells is a Favorable Cell Source for Articular Cartilage Tissue Engineering: A Study Based on 3D Organized Self-assembled Biomimetic Scaffold **Chen-Chie Wang** (Hualien Tzu-Chi University)
	11:05–11:20 Translational and Clinical Development of Tonsil-derived Mesenchymal Stem Cells **정성철**(이화의대)	11:20–11:45 Adipose-Derived Exosomes as a Preventative Strategy Against Nodule Formation in Hyaluronic Acid Filler Applications: A Comprehensive In Vivo Analysis **정운혁**(계명대)	11:30–11:50 3D printed Versatile Assemblable Scaffold for Tailored Microgel Carrier in Regenerative Medicine **이승훈**(동국대)
	12:20–12:40 From Materials to Life **임정옥**(경북의대)		11:50–12:10 Development of Diagnostic based on CRISPR Technology **송자연**(성균관대)
	11:40–11:55 Tooth and Bone Regeneration **박의균**(경북대치대)		
	11:55–12:10 Beyond the Paper: Celebrating a Legacy of Mentorship and Collaboration with Professor Lim **오지원**(연세의대)		
12:10–12:30	KTERMS General Meeting		
12:30–13:00	Luncheon Session		
13:00–14:00	Poster Session		
14:00–14:40	**Plenary Lecture II** Delivery Systems for Regenerative Medicine		**오거나이저 : 조승우**(연세대), **황석연**(서울대) **좌장: 임정옥**(경북의대) **Speaker: Robert S. Langer** (MIT)
14:40–15:55	**S13. Tissue Engineering** **오거나이저: 정영미**(KIST) **좌장: 이수홍**(동국대), **정영미**(KIST)	**S14. Cardiovascular Therapy** **오거나이저: 박훈준**(가톨릭의대) **좌장: 박윤신**(충북대), **강선웅**(안전성평가연구소)	**S15. Korean Fund for Regenerative Medicine** **오거나이저: 이정승**(성균관대) **좌장: 최윤혁** R&D 기획관리본부장
	14:40–15:05 Coacervate as a Versatile Drug Delivery Supplement for Tissue Engineering **정지홍**(서울의대)	14:40–15:00 Application of Human Cardiomyocytes and Machine Learning for Enhanced Cardiotoxicity Prediction **문성환**(중앙대)	14:40–15:05 Bioprinting-assisted Tissue Assembly for Structural and Functional Modulation of Engineered Heart Tissue **장진아**(POSTECH)
	15:05–15:30 Advancing Cell Therapy through Tissue Engineering Technology **정지헌**(성균관의대)	15:00–15:20 Therapeutic Potential of 3D Cardiac Spheroids Derived from Human Pluripotent Stem Cells for Cardiac Regeneration **박훈준**(가톨릭의대)	15:05–15:30 Cell-assembling Technologies for Regenerative Medicine **김상헌**(KIST)
	15:30–15:55 Scalable Single Nucleus RNA-seq of FFPE Clinical Samples by Fixative Exchange (FX)-seq **손창호**(연세대)	15:20–15:40 Bioresorbable Temporary Cardiac Pacemakers **최연식**(연세대)	15:30–15:55 Customized Treatment for Patients with Chronic Kidney Disease Using AI and 3D Bioprinting Technologies **류지나**(로킷헬스케어)
		15:40–15:55 Prevention of Ischemic Heart Disese by Oral Administration of Engineered Probiotics **반기원**(홍콩시립대)	
15:55–16:15	*Coffee Break*		
16:15–17:30	**S16. Gene Therapy & Immunotherapy** **오거나이저: 주진명**(UNIST) **좌장: 오세행**(단국대), **박우람**(성균관대)	**S17. Orthopedic Surgery** **오거나이저: 한혁수**(서울의대) **좌장: 임군일**(동국의대), **양희석**(단국대)	**S18. Korean Fund for Regenerative Medicine** **오거나이저: 이정승**(성균관대) **좌장: 조순로** R&D 운영본부장
	16:15–16:40 Modulation of Nitric Oxide for Immunocancer Therapy **김원종**(POSTECH)	16:15–16:40 Cell Therapeutics for Rotator Cuff Disease **조현철**(서울의대)	16:15–16:40 Regulatory Science Support Based Efficient Development Stratgegic Consideration of Advanced Therapeutic Medicinal Products **김종원**(규제과학지원단장/오송첨단의료산업진흥재단)
	16:40–17:05 Exploring the Impact of Spatial Distribution of CpG Ligands on DNA Origami for Cancer Vaccine **류주희**(KIST)	16:40–17:05 Cell Therapy for Osteonecrosis of the Femoral Head **백승훈**(경북의대)	16:40–17:05 Considerations for the Efficacy and Safety Evaluation of Advanced Therapy Medicinal Products for the Salivary Gland Disease **전상호**(고려대학교)
	17:05–17:30 Harnessing Nanoparticles for Induction of Immune Tolerance in Autoimmune Diseases **김재윤**(성균관대)	17:05–17:30 Costal Chondrocyte Derived Pellet-type Autologous Chondrocyte Implantation: an Overview **박재영**(차의과대)	17:05–17:30 Pancreatic Islet Cells Transplantation with Immunoisolation **황석연**(서울대학교)

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Day3 : 5월 4일(토)

Time	Room A	Room B	Room C
09:00–10:15	**S19. Exosome** **오거나이저: 조용우**(한양대/엑소스템텍) **좌장: 조용우**(한양대/엑소스템텍), **박우람**(성균관대)	**S20. Nerve** **오거나이저: 박영석**(충북의대) **좌장: 현상환**(충북대수의대), **박영석**(충북의대)	**S21. Obstetrics & Gynecology** **오거나이저: 김윤영**(서울대병원) **좌장: 구승엽**(서울의대), **김성우**(서울의대)
	09:00–09:25 Exosome-mediated CRISPR/Cas-based Epigenome Editing in Alzheimer's Disease **조동규**(성균관대)	09:00–09:25 The Role of Astrocytes and Collagen in Non-Human Primate Photothrombosis-Induced Stroke Model: Functional Recovery from Neurological Damage Utilizing H_2O_2 Scavenger **유승준**(을지의대)	09:00–09:25 Ovary Engineering Using Stem Cells **김윤영**(서울대병원)
	09:25–09:50 Exosome Surface Glycan Targeting Lectin Nanoparticles for the Theragnosis of Tumor **최종훈**(중앙대)	09:25–09:50 Development of Cultured Food Utilizing Muscle Regeneration Technology for Preventing Sarcopenia **최정석**(충북대)	09:25–09:50 The Clinical Unmet Need for Tissue Engineering and Regenerative Medicine in Female Reproduction **김용진**(고려의대)
	09:50–10:15 Microbial Nano Vesicles (MNV) for Treatment of Inflammatory Diseases **최기영**(강릉원주대)	09:50–10:15 Enhanced Intervertebral Disc Repair and Regeneration Using a Nanohybrid Peptide Hydrogel **한인보**(차의과대)	09:50–10:15 Development of Endometrial Tissue Assembly for Lego-like Customizable Tissue Regeneration **홍인선**(가천대학교)
10:15–11:30	**S22. Organoid & Organ Chip** **오거나이저: 황용성**(순천향대) **좌장: 황용성**(순천향대), **이진우**(가천대)	**S23. Veterinary Regenerative Medicine** **오거나이저: 이정익**(건국대) **좌장: 이정익**(건국대), **박상혁**(부경대)	**S24. Korean Neurological Association Joint Session** **오거나이저: 김치경**(고려의대) **좌장: 김치경**(고려의대), **안중호**(차의과대)
	10:15–10:40 Patient-derived Microphysiological Systems to Reconstruct Tumor Microenvironments **고지훈**(가천대)	10:15–10:40 Translational Medicine and Companion Animal Clinical Study **구민**(VET STEM SOLUTION)	10:15–10:40 CADASIL: A Genetic Cause of Stroke **최재철**(제주의대)
	10:40–11:05 Development of Organoid Chip for Liquid Biopsy Diagnostic Markers **송영준**(인천대)	10:40–11:05 Safety and Efficacy of I.V. Administration of Allo-Mesenchymal Stem Cells in Companion Animal Patients **김의진**(메디펫 동물병원, 건국대학교 부속 동물병원 동물 줄기세포 치료 센터장)	10:40–11:05 Vascular Gemotry and Stroke; What We Know and Need **김범준**(울산의대)
	11:05–11:30 Understanding the Forces that Control Cell Fate and Disease Progression Using Patient-derived Organoids **황용성**(순천향대)	11:05–11:30 Stem Cell Research in Veterinary Medicine **이혜정**(농림축산검역본부 수의연구사)	11:05–11:30 Tissue Engineering in a Neurovascular Unit **김치경**(고려의대)
11:30–12:00	Award Ceremony & Closing Remark		

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