

2024 KSSCR Winter Conference  
- Organ-based Stem Cell Medicine for Clinical Translation  
일자 : 2024년 1월 3일(수) - 5일 (금)  
장소 : 소노벨 비발디파크 타워 D

업데이트 : 2023년 11월 1일

Day 1: 2024년 1월 3일 (수)

사회 : 임예리 교수 (가톨릭대학교)

Time	그랜드볼룸 I	그랜드볼룸 II
12:00-12:50	등록	
12:50-13:00	Opening Remarks: President of KSSCR	
13:00-15:00	KSSCR Winter Young Investigator	
	Special session for young & Junior scientists and physicians	
	Co-Chairs : 최동호 교수 (한양대학교) & 주지현 교수 (가톨릭대학교)	
	Speaker : 민성진 (연세대학교) Cardiac tissue models incorporated with extracellular matrix and microfluidic device for diverse biomedical applications	
	Speaker : 김진원 (가톨릭대학교) The role of kidney decellularized extracellular matrix on kidney organoids differentiation	
	Speaker : 김용환 (울산대학교) Glutathione dynamics is a potential predictive and therapeutic trait for neoadjuvant chemotherapy response in bladder cancer	
	Speaker : 오세영 (이화여자대학교) Effect of Guanine Depletion on Osteogenic Potential	
	Speaker : 김요한 (성균관대학교) Generation of human primary hepatocyte organoids and increasement of complexity in organoid culture system.	
	Speaker : 임경태 (고려대학교) Cellular and Molecular Mechanisms of Alveolar Cell Fate Differentiation and Maturation in the Human Fetal Lung	
	Speaker : 권오만 (KRIBB) Chemically defined and scalable culture system for intestinal stem cells derived from human intestinal organoids	
	Speaker : 박도영 (아주대학교) Novel regenerative therapies of musculoskeletal tissues utilizing ECM guided stem cell self assembly construct transplantation	
15:00-17:20	Head & Neck	
15:00~15:40	Brain	
	Chair : 양승호 교수 (가톨릭대학교)	
	Speaker : 양승호 교수 (가톨릭대학교) Application of cerebral organoids for CNS research	
	Speaker : 선웅 교수 (고려대학교) Neural Organoids for drug development	
15:40-16:00	Break	
16:00-16:40	Eye	
	Chair : 이훈 교수 (울산대학교)	
	Speaker : 이훈 교수 (울산대학교) Corneal endothelial like-cells derived from human induced pluripotent stem cells : Where are we & Where to navigate	
	Speaker : 황창모 교수 (울산대학교) Anti-angiogenic Cell therapy for Retinal Neovascular Diseases	
16:40-17:20	ENT	
	Chair : 김한수 교수 (이화여자대학교)	
	Speaker : 김한수 교수 (이화여자대학교) Regeneration of the parathyroid gland	
	Speaker : 박혜상 교수 (한림대학교) Tissue engineering approach of the trachea	
17:20-17:50	Plenary Session I	
	Wrap-up lecture for Nervous system	
	Chair : 최동호 교수 (한양대학교)	
	Speaker : 김동욱 교수 (연세대학교) Clinical grade hESC-derived dopaminergic neurons for treatment of Parkinson's disease	

Day 2: 2024년 1월 4일 (목)

사회 : 진윤희 교수 (연세대학교)

Time	그랜드볼룸 I	그랜드볼룸 II
09:00-11:00	Chest	Satellite Symposium I
09:00-10:00	Heart	Exosome
	Chair : 박훈준 교수 (가톨릭대학교) Speaker : 박훈준 교수 (가톨릭대학교) Therapeutic potential of 3D cardiac spheroids derived from human pluripotent stem cells for cardiac regeneration	Chair : TBD
	Speaker : 문성환 교수 (중앙대학교) A predictive in vitro cardiotoxicity evaluation system mimicking clinical trials for drug candidates	Speaker : TBD
	Speaker : 권유옥 교수 (서울대학교) Development of Stem cell medicine for clinical application in heart diseases	
10:00-11:00	Lung	Speaker : TBD
	Chair : 조영재 교수 (서울대학교) Speaker : 조영재 교수 (서울대학교) Organoid and Clinical Key Pathogenesis in the Lung-Inflammation	
	Speaker : 정재욱 교수 (충남대학교) Organoid and Clinical Key Pathogenesis in the Lung-Malignancy	
	Speaker : Shimpei Gotoh (교토대학교) Organoid and Clinical Key Pathogenesis in the Lung-Fibrosis	
11:00-11:30	Break	
11:30-12:00	Plenary Session II Wrap-up lecture for Solid organ I	Speaker : TBD
	Chair : 김재호 교수 (부산대학교) Speaker : 최동호 교수 (한양대학교) Recent trends of regenerative medicine of liver	
12:00-13:00	Poster Viewing	
12:00-13:00	Lunch	
13:00-14:20	Abdomen, Upper	Satellite Symposium II
13:00-13:40	Stomach/Intestine	Organoid
	Chair : 조인호 단장 (범부처재생의료기술개발사업단) Speaker : 손미영 박사 (KRIBB) Regenerative medicine using human intestinal organoid comprised of epithelial and stromal cells	Chair : TBD
	Speaker : 유종만 교수 (차의과학대학교) Translating organoid medicine from the lab to the clinic	Speaker : TBD
	Liver	
	Chair : 조승우 교수 (연세대학교) Speaker : 조승우 교수 (연세대학교) Advanced liver organoids for modeling non-alcoholic steatohepatitis	
13:40-14:20	Speaker : 정재민 박사 (한국원자력의학원) Hepatic organoids for liver regeneration and inherited metabolic disorders	
14:20-15:00	Break	

15:00-17:00	<b>Abdomen, Lower</b>	Speaker : TBD
	<b>Pancreas</b>	
15:00-15:40	Chair : 이기현 교수 (이화여자대학교)	
	Speaker : 허원도 교수 (KAIST)	
	Bio-Illuminate: Controlling and Visualizing Cellular Behavior in Living Cells and Animals	
	Speaker : 이기현 교수 (이화여자대학교)	
15:40-16:20	Investigation of Diabetic Risks using Human Pluripotent Stem cells	
	<b>Kidney</b>	
	Chair : 김용균 교수 (가톨릭대학교)	
	Speaker : 김용균 교수 (가톨릭대학교)	
16:20~17:00	The updated clinical applications of hPSCs-kidney organoids	
	Speaker : 김태형 교수 (중앙대학교)	
	Electrochemical detection of cell energy metabolism and its application for assessing kidney organoids maturation	
	<b>Urology</b>	
17:00-17:30	Chair : 신동명 교수 (울산대학교 서울아산병원)	
	Speaker : 신동명 교수 (울산대학교 서울아산병원)	
	Dynamics of Glutathione in Mesenchymal Stem Cells: Implications for the Management of Bladder Voiding Disorders	
	Speaker : 신정현 교수 (이화여자대학교)	
	Clinical trials with stem cell in interstitial cystitis/bladder pain syndrome	
	<b>Plenary Session III</b>	
	<b>Wrap-up lecture for Solid organ II</b>	
	Chair : 도정태 교수 (건국대학교)	
	Speaker : 신근유 교수 (서울대학교)	
	Research paradigm on stem cell biology for solid tissues	

Day 3: 2024년 1월 5일 (금)

사회 : 이기현 교수 (이화여자대학교)

Time	그랜드볼룸 I	그랜드볼룸 II
09:00-11:40	<b>Musculoskeleton/Skin/Blood</b>	
	<b>Bone/Cartilage</b>	
09:00-09:40	Chair : 김석중 교수 (가톨릭대학교)	
	Speaker : 김석중 교수 (가톨릭대학교)	
	Cartilage regeneration history and development	
	Speaker : 김영철 교수 (가톨릭대학교)	
09:40-10:20	The role of stem cells in bone cell co-culture in bone-on-a-chip model product	
	<b>Skin/Muscle/Peripheral nerve</b>	
	Chair : 정성철 교수 (이화여자대학교)	
	Speaker : 박귀영 교수 (중앙대학교)	
10:20-10:40	The role and future perspectives of Exosomes in the treatment of Atopic dermatitis	
	Speaker : 정성철 교수 (이화여자대학교)	
	Application of Schwann cell-like cells differentiated from tonsil-derived mesenchymal stem cells in peripheral neuropathies	
	<b>Break</b>	
10:40-11:40	<b>Blood &amp; Vessel</b>	
	Chair : 김현욱 단장 (세포기반인공혈액기술개발사업단, 재생의료진흥재단)	
	Speaker : 임예리 교수 (가톨릭대학교)	
	Development of Red Blood Cells Using Clinically Applicable Induced Pluripotent Stem Cells	
11:40-12:10	Speaker : 노지윤 박사 (KRIBB)	
	Investigation of Molecular Megakaryopoiesis for Stem Cell-derived Platelet Production	
	<b>Plenary Session IV</b>	
	<b>Wrap-up lecture for Musculoskeletal &amp; Other System</b>	
	Chair : 김대성 교수 (고려대학교)	
	Speaker : 주지현 교수 (가톨릭대학교)	
	Musculoskeletal application of iPSC in real world clinics	