

SYIS Oral Presentation Awardee

Presentation No.	Presentation Info.			
	Presentation Title	Name	Affiliation	Country
S1-F-02	Interactions between macrophage and human fibroblast-derived extracellular matrix leads to advanced wound healing	Cininta Savitri	Korea Institute of Science and Technology	Republic of Korea
S1-F-03	Exploring the use of regulatory T cells to promote tissue repair and regeneration	Bhavana Nayer	Australian Regenerative Medicine Institute, Monash University	Australia
S1-F-06	Biomimetic semi-flexible hydrogel with reduced inflammation for bone defects	Jae Seo Lee	Kyung Hee University	Republic of Korea
S1-F-08	Spatiotemporal modulation of skeletal muscle regeneration with varying vasculature patterns in an in-bath bioprinted skeletal muscle tissue	Seungyeun Cho	POSTECH	Republic of Korea
S2-F-01	Decellularized tissue-derived adhesive hydrogel with enhanced mechanical property for tissue regeneration	Yi Sun Choi	Yonsei University	Republic of Korea
S2-F-04	Delivery of a spheroids-incorporated human dermal fibroblast sheet increases angiogenesis and M2 polarization for wound healing	Jiyu Hyun	Sungkyunkwan University	Republic of Korea
S2-F-06	3D-printed airway model as a tool for studying SARS-CoV-2 infection and antiviral therapeutics	Yunji Lee	POSTECH	Republic of Korea
S2-F-07	Bioengineered mussel protein-based multi-layer dental implants for tooth-mimicking interface construction	Jinyoung Yun	POSTECH	Republic of Korea
S3-F-01	Scalable delivery of highly proliferative co-cultured skin cells in 3D GeIMA core-shell microspheres	Pei Leng Tan	Nanyang Technological University	Singapore
S3-F-03	Phlorotannin-incorporated nanofiber exhibits cytocompatibility and accelerates hyperglycaemic wound healing	Shou Jin Phang	University of Malaya	Malaysia
S3-F-04	Type II collagen-specific regulatory T cell-inducing nanoparticle for osteoarthritis	Hee Su Sohn	Seoul National University	Republic of Korea
S3-F-05	Development of polymer therapeutics that selectively disrupts the cell membrane in the tumor microenvironment	Kazuki Moroishi	Osaka university	Japan
S4-F-02	Three-dimensional hydrogel with biophysical modulation regulates cellular reprogramming into induced pluripotent stem cell	Deogil Kim	CHA University	Republic of Korea
S4-F-03	Single-cell multiomic profiling identifies novel regulators of stem cell derived β -cell differentiation and maturation	Punn Augsornworawat	Washington University in St. Louis	USA
S4-F-07	Phototoxicity-free blue light for enhancing therapeutic angiogenic efficacy of stem cells	Eun Cheol Lee	Sungkyunkwan University	Republic of Korea

S4-F-08	Engineered 3D biomimetic skeletal muscle construct using induced myogenic progenitors that can self-renew and differentiate	Inseon Kim	ETH Zurich	Switzerland
S5-F-04	Tissue-derived extracellular matrix hydrogel for gastrointestinal organoid culture	Sungjin Min	Yonsei University	Republic of Korea
S5-F-07	Screening niche factors favoring hair lineage differentiation using a multiphoton microfabrication and micropatterning (MMM) technology-based	Wanjing Ou	The University of Hong Kong	Hong Kong
S5-F-08	Accurate drug screening by design of antifouling channel wall microfluidic platform	Tae Young Kim	Yonsei University	Republic of Korea
S5-F-09	Development of aging-induced neurovasculature-on-a-chip to study the aging-mediated neurodegenerative disease	Minjeong Jang	KIST	Republic of Korea

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	Title	Name	Affiliation	Country
PS01-009	Development of PCL-based 3D printing scaffold with unique morphology for bone regeneration	Min Ji Kim	Dankook University	Republic of Korea
PS01-010	Development of blood plasma-immobilized porous film with leaf-stacked structure as a hemostatic agent	Ye jin Song	Dankook University	Republic of Korea
PS01-013	PMMA-based bone cement to prevent adjacent vertebral fractures after vertebroplasty	ShinYoung PARK	Dankook university	Republic of Korea
PS01-015	Vascular perfusion enabled by microchannel network in ischemic disease model using hydrogel with three-dimensional microtubular structures	Hye-Jeong Jang	Chung-Ang University	Republic of Korea
PS01-027	A transplantable pre-vascularized tissue platform by using a multi-material microfluidic 3D bioprinting method	Donghwan Kim	POSTECH, Pohang, Gyeongbuk, 37666, Republic of Korea	Republic of Korea
PS01-030	Gelatin incorporation in VEGF-loaded PVA-Tyramine hydrogels to enhance cellular interaction and vascular infiltration	Alessia Longoni	University of Otago	New Zealand
PS01-036	Anti-senescence ion-delivering nanocarrier for recovering therapeutic properties of long-term-cultured human adipose-derived stem cells	Yeong Hwan Kim	Sungkyunkwan University	Republic of Korea
PS01-037	Mesenchymal stem cell and hydrogel treatment of oral ulcer	Hyun Seok Ryu	Interdisciplinary Program for Medical Laser, College of Medicine, Dankook University	Republic of Korea
PS01-042	Thermosensitive copolymer coated and redox-induced dissolvable microsphere for efficient cell harvesting during 3D cell culturing	Shun-Hao Chuang	National Taiwan University of Science and Technology	Chinese Taipei
PS01-055	Wound healing effects of extremely low-frequency electromagnetic fields through activation and differentiation of stem cells	Ju-Hye Choi	Department of Medical Biotechnology, Dongguk University	Republic of Korea
PS02-002	Human hair keratin gradient hydrogels for skin regeneration	Marin Zhen Lin Yee	Nanyang Technological University	Singapore
PS02-009	Fabrication of cell scaffold capable of sustained oxygen release by hydroxyapatite formation on calcium peroxide	Daisuke Tomioka	Osaka University	Japan
PS02-022	Natural killer cell membrane coated gold nanoparticles for cell membrane immunotherapy	Seojeong Yun	Dongguk university	Republic of Korea
PS02-027	Topical bioadhesive hemostatic agents for bleeding site care at visceral surgeries	Jaeyun Lee	Department of Chemical Engineering, Pohang University of Science and Engineering	Republic of Korea
PS02-040	Nanofilms constructed by cation-dipole interaction to prevent cell migration for cell compartmentalization in 3D tissues	Jinfeng Zeng	Department of Applied Chemistry, Graduate School of Engineering, Osaka University	Japan
PS02-047	Development of a simple multi-functional unidirectional freezing platform to engineer aligned scaffolds for tissue engineering	Habib Joukhdar	Graduate School of Biomedical Engineering, University of New South Wales	Australia
PS02-048	Selective modulation of single cell migration via double-strand DNA rupture force	Seong-Beom Han	Korea University	Republic of Korea
PS02-049	Fabrication and characterisation of hybrid nanocollagen- gelatin thermoresponsive hydrogel for skin tissue engineering application	Samantha Lo	Center for Tissue Engineering and Regenerative Medicine, The National University of Malaysia (Universiti	Malaysia
PS02-052	The development of multifunctional nerve guidance conduit using milk derived protein for peripheral nerve regeneration	Jin Jeon	Dankook University	Republic of Korea
PS02-054	Engineering autologous vascularized thrombus implants for enhancing cutaneous wound healing	Su Hyun Jung	UNIST (Ulsan National Institute of Science and Technology)	Republic of Korea

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PS02-062	Characterisation of native tissue and development of multiphasic scaffolds for engineering of bone-ligament interface	Ilayda Karadag	University of Oxford	United Kingdom
PS02-064	3D bioprinting of islet-like aggregates using dual-crosslinked hydrogel with promoted biofunctionality and enhanced shape stability	Yeonggwon Jo	Pohang University of Science and Technology (POSTECH)	Republic of Korea
PS02-067	3D printing of biohybrid electrical stimulation platform to promote insulin secretion of pancreatic β cell	Jihwan Kim	POSTECH, Pohang, Gyeongbuk, South Korea	Republic of Korea
PS02-072	3D chondrogenic differentiation of human stem cells in reprogramming factor-based injectable hydrogel for cartilage tissue engineering	Sumi Choi	Dong-A University	Republic of Korea
PS02-078	Anti-inflammatory, dry adhesive patches based on catechol-modified sulfated hyaluronic acid for multipurpose application	Wonmoon Song	Seoul National University	Republic of Korea
PS02-087	Development of poly(lactide-co-caprolactone) film combined with mesenchymal stem cell-derived matrix for corneal endothelial cells	Eui Sun Song	University of Science and Technology, Korea Institute of Science and Technology	Republic of Korea
PS02-091	Development of PDRN loaded alginate/silica hybrid hydrogel scaffold using 3D printing for enhanced diabetic wound healing	Hyun Lee	The Catholic University of Korea	Republic of Korea
PS02-098	Magnetic nanoparticles-based specific enrichment system for biomarker concentration of transplant rejection in the blood	Suhyun Kim	Department of Biomedical Engineering, Ulsan National Institute Science and Technology (UNIST)	Republic of Korea
PS02-113	Separable double-layer microneedle codelivery of Dox and LPS for treating subcutaneous glioma tumor via immunochemotherapy	Zhen Xiang Hong	National Taiwan University of Science and Technology	Chinese Taipei
PS02-114	Synergistic composite for wound healing by delivery of fibroblast growth factor	Minju Kim	UNIST	Republic of Korea
PS02-118	Gelatin-based dual delivery matrices releasing calcium and oxygen to facilitate vascularized bone tissue regeneration	Jeong Min Kim	Incheon National University	Republic of Korea
PS02-120	Chondrocyte-mimicking microspheres for osteochondral defect repair	ZECHU ZHOU	Dankook University	Republic of Korea
PS02-126	pH-sensitive photonic crystal patch for wound healing monitoring	YongHoe Koo	Unist	Republic of Korea
PS02-131	Development of 3D printed thermo-responsive skin-derived decellularized extracellular matrix hydrogel adhesive patch with controllable shrinkage	Sungkeon Cho	POSTECH, Pohang, Gyeongbuk, 37666	Republic of Korea
PS02-137	Fabrication of 3D bioprinted tumor cell-laden scaffold using photo-crosslinkable bioink	Kyoung Choi	Laboratory of Tissue Engineering, Korea Institute of Radiological and Medical Sciences	Republic of Korea
PS03-006	Fabrication of a polymeric inhibitor of membrane-type co-localized enzymes for synergistic inhibition of cancer cell metabolism	Yuki Koba	Osaka University	Japan
PS03-018	Disturbed flow-targeting nanovesicles for early theragnosis of atherosclerosis	Seong-Jun Kang	Chung-Ang University	Republic of Korea
PS03-019	Plant-inspired pluronic-gallol micelle: Low critical micelle concentration, high protein affinity, and thermal stability	Jungwoo Kim	Department of Intelligent Precision Healthcare Convergence, Sungkyunkwan University	Republic of Korea
PS03-025	Long-term anti-inflammatory effects of injectable celecoxib nanoparticle hydrogels for achilles tendon regeneration	Jun Kim	Korea University of Science and Technology	Republic of Korea
PS03-026	Neuroprotective potential of phospholipase A2 against oxidative stress-induced toxicity in neuronal cell	Nur Atiqah Haizum Abdullah	The National University of Malaysia (UKM)	Malaysia

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PS04-010	Three-dimensional environment improves efficiency of chemically-induced direct cardiac reprogramming	Seung Ju Seo	Department of Physiology, Graduate School of Medical Science, Brain Korea 21 Project, Yonsei University	Republic of Korea
PS04-014	Alginate encapsulation of 3D cultured mesenchymal stem cell spheroids for intraperitoneal injection in DSS-induced murine chronic colitis	Junhyeung Park	Sungkyunkwan University	Republic of Korea
PS05-001	Engineering hair follicle organoids through microenvironmental reprogramming	Tatsuto Kageyama	Kanagawa Institute and Industrial Science and Technology	Japan
PS05-002	Zika virus infection accelerates Alzheimer's disease phenotypes in brain organoids	Hee-Yeong Kim	Seoul National University	Republic of Korea
PS05-004	Development of <i>in vitro</i> 3D unidirectional cerebral region circuit analytic platform by controlling the growth rate of neurites	Kyeong Seob Hwang	KIST	Republic of Korea
PS05-014	Wnt-activating human skin organoid model of atopic dermatitis Induced by <i>Staphylococcus aureus</i> and its protective effects by <i>Cutibacterium acne</i>	Min-ji Kim	Seoul National University	Republic of Korea
PS05-017	Human stomach microphysiological system for modelling <i>Helicobacter Pylori</i> pathogenesis	Hye-Jin Jeong	Ulsan National Institute of Science and Technology	Republic of Korea
PS05-021	3D bioprinting-based tissue assembly to generate multi-axially contracting engineered heart tissue	Dong Gyu Hwang	POSTECH	Republic of Korea
PS05-024	Spatial restriction of diffuse gastric cancer cells promotes cell softening and filopodia formation	Seung Won Oh	Department of Bio and Brain Engineering, KAIST	Republic of Korea
PS05-028	Differentiation of human hair follicle stem cells into a vascularized hair bearing skin organoids	Hyein Lee	ORG Corp.	Republic of Korea