

TERMIS-AP 2022

SYIS POSTER PRESENTATIONS | Lobby, 5F, ICC Jeju

| No. | Presentation Info. | | Abstract Info. | | Presenter's Info. | | | Submission No. | Remarks |
|-----|--------------------|-------------------|-------------------------|---|--------------------------|---|--------------------|----------------|---------|
| | Presentation No. | Presentation Date | Topic | Title | Name | Affiliation | Country | | |
| 1 | PS01-001 | October 5-6 | T01-Tissue regeneration | The influence of fine dust in DEPs –inhalated diabetic wound models | Young Suk Choi | SoonChunHyang University | Korea, Republic of | O-T01-0035 | |
| 2 | PS01-002 | October 5-6 | T01-Tissue regeneration | The effect of wound healing lead material using a streptozotocin-induced diabetic rat model exposed to fine dust | Hyemin An | SoonChunHyang University | Korea, Republic of | O-T01-0036 | |
| 3 | PS01-003 | October 5-6 | T01-Tissue regeneration | Effect of electric muscle stimulation on the improvement of deltoid muscle atrophy | Jeongkun Lee | Konkuk University | Korea, Republic of | P-T01-0037 | |
| 4 | PS01-004 | October 5-6 | T01-Tissue regeneration | Targeted delivery of apoptotic cell-derived nanovesicles prevents cardiac remodeling and attenuates cardiac function exacerbation | Ju-Ro Lee | Korea Institute of Science and Technology | Korea, Republic of | P-T01-0092 | |
| 5 | PS01-005 | October 5-6 | T01-Tissue regeneration | Effective delivery of osteoinductive composite-spheroids laden hydrogel for bone tissue engineering | Eunjin Lee | Department of Bioengineering, Hanyang University | Korea, Republic of | P-T01-0105 | |
| 6 | PS01-006 | October 5-6 | T01-Tissue regeneration | Inhibitory effect of ginseng derived extracellular nanovesicles on osteoclast differentiation | Ji Hye Yoo | Department of Biomedical Science and Technology, Graduate School, Kyung Hee University | Korea, Republic of | O-T01-0121 | |
| 7 | PS01-007 | October 5-6 | T01-Tissue regeneration | Fabrication of spheroids using hydrogels with self-assembly system and bioreactor | Seung Yeon Lee | Department of Biomedical Science and Technology, Graduate School, Kyung Hee University | Korea, Republic of | O-T01-0128 | |
| 8 | PS01-008 | October 5-6 | T01-Tissue regeneration | Multi-functional membrane with bioactive layer and anti-adhesion layer for tendon regeneration | Seung Hyeon Cho | Dankook University | Korea, Republic of | P-T01-0130 | |
| 9 | PS01-009 | October 5-6 | T01-Tissue regeneration | Development of PCL-based 3D printing scaffold with unique morphology for bone regeneration | Min Ji Kim | Dankook University | Korea, Republic of | P-T01-0131 | |
| 10 | PS01-010 | October 5-6 | T01-Tissue regeneration | Development of blood plasma-immobilized porous film with leaf-stacked structure as a hemostatic agent | Ye jin Song | Dankook University | Korea, Republic of | P-T01-0132 | |
| 11 | PS01-011 | October 5-6 | T01-Tissue regeneration | Fabrication and characterization of cell spheroid system containing porous microparticles | Jae Seok Park | Dankook University | Korea, Republic of | P-T01-0133 | |
| 12 | PS01-012 | October 5-6 | T01-Tissue regeneration | Development of bi-layer GBR membrane for simultaneous regeneration of bone and epithelium | Han Byeol Kim | Dankook University | Korea, Republic of | P-T01-0134 | |
| 13 | PS01-013 | October 5-6 | T01-Tissue regeneration | PMMA-based bone cement to prevent adjacent vertebral fractures after vertebroplasty | ShinYoung PARK | Dankook university | Korea, Republic of | P-T01-0135 | |
| 14 | PS01-014 | October 5-6 | T01-Tissue regeneration | Temperature sensitive polymer hydrogel patch with controllable release system for skin tissue regeneration | Jae Hwan Choi | Department of Biomedical Science and Technology, Graduate School, Kyung Hee University | Korea, Republic of | O-T01-0146 | |
| 15 | PS01-015 | October 5-6 | T01-Tissue regeneration | Vascular perfusion enabled by microchannel network in ischemic disease model using hydrogel with three-dimensional microtubular structures | Hye-Jeong Jang | Chung-Ang University | Korea, Republic of | P-T01-0160 | |
| 16 | PS01-016 | October 5-6 | T01-Tissue regeneration | Tailoring the bioactivity of a cell-derived extracellular matrix (ECM)-based material to exhibit superior pro-angiogenic and osteogenic properties | Lih Ying SHIN | Institute for Tissue Engineering and Regenerative Medicine, The Chinese University of Hong Kong | Hong Kong | P-T01-0165 | |
| 17 | PS01-017 | October 5-6 | T01-Tissue regeneration | Mesenchymal stromal cell exosomes modulate macrophage activities to promote joint repair in osteoarthritis | Kristeen Ye Wen Teo | Faculty of Dentistry, National University of Singapore | Singapore | E-T01-0176 | |
| 18 | PS01-018 | October 5-6 | T01-Tissue regeneration | Enhancement of muscle tissue regeneration supplemented with bioactive components | HanJun Hwangbo | Sungkyunkwan university | Korea, Republic of | E-T01-0248 | |
| 19 | PS01-019 | October 5-6 | T01-Tissue regeneration | The bone regenerative potential of RANTES/CCL5 in the calvarial defects of rat | Chang sung Kim | 1.Department of Periodontology, Research Institute for Periodontal Regeneration, College of Dentistry, Yonsei University, 2 Department of Periodontology, Oral science research center, College of Dentistry, | Korea, Republic of | P-T01-0256 | |
| 20 | PS01-020 | October 5-6 | T01-Tissue regeneration | Aligned alginate based cell-laden nanofibrous produced by cell electrospinning for corneal stromal regeneration | SuHyeok Lee | Sungkyunkwan University | Korea, Republic of | E-T01-0257 | |
| 21 | PS01-022 | October 5-6 | T01-Tissue regeneration | Fabrication of mechanically reinforced alginate/PCL scaffolds for hard tissue engineering | MoHan Pei | Sungkyunkwan University | Korea, Republic of | E-T01-0276 | |
| 22 | PS01-023 | October 5-6 | T01-Tissue regeneration | Novel concept of guided bone (regeneration GBR) using collagen membrane with rhBMP-2 | Narae Jung | Yonsei Univ | Korea, Republic of | P-T01-0338 | |
| 23 | PS01-024 | October 5-6 | T01-Tissue regeneration | Therapeutic potential of multiple cycles collection of conditioned medium from different cell sources on wound healing model: In vitro study | Nur Izzah Md Fadilah | Centre for Tissue Engineering and Regenerative Medicine, Faculty of Medicine, Universiti Kebangsaan Malaysia | Malaysia | O-T01-0373 | |
| 24 | PS01-025 | October 5-6 | T01-Tissue regeneration | A biphasic construct for osteochondral complex using modified transwell model | Chengchong Ai | National University of Singapore | Singapore | E-T01-0379 | |
| 25 | PS01-026 | October 5-6 | T01-Tissue regeneration | Effects of (glycosaminoglycan GAG) content in donor cartilage extracellular matrix on the functional properties of osteochondral allograft evaluated by μ CT non-destructive analysis | YONGJUN JIN | Department of Orthopedic Surgery, School of Medicine, Ajou University | Korea, Republic of | P-T01-0392 | |
| 26 | PS01-027 | October 5-6 | T01-Tissue regeneration | A transplantable pre-vascularized tissue platform by using a multi-material microfluidic 3D bioprinting method | Donghwan Kim | POSTECH, Pohang, Gyeongbuk, 37666, Republic of Korea | Korea, Republic of | O-T01-0409 | |
| 27 | PS01-028 | October 5-6 | T01-Tissue regeneration | Exosome-encapsulating tissue-adhesive patch for diabetic wound regeneration | Seung Yeop Han | Department of Biotechnology, Yonsei University, 03722 Seodaemun-gu, Seoul, Republic of Korea | Korea, Republic of | P-T01-0423 | |
| 28 | PS01-029 | October 7-8 | T01-Tissue regeneration | Fabrication of a cell-aggregates loaded hepatic tissue via cell-printing system | WonJin Kim | Sungkyunkwan University | Korea, Republic of | P-T01-0425 | |
| 29 | PS01-030 | October 7-8 | T01-Tissue regeneration | Gelatin incorporation in VEGF-loaded PVA-Tyramine hydrogels to enhance cellular interaction and vascular infiltration | Alessia Longoni | University of Otago | New Zealand | O-T01-0434 | |
| 30 | PS01-031 | October 7-8 | T01-Tissue regeneration | Microfluidic chip development for vascularized bone marrow niche | Seoyeon Kim | Seoul National University, Korea National University of Transportation | Korea, Republic of | P-T01-0438 | |
| 31 | PS01-032 | October 7-8 | T01-Tissue regeneration | Polycaprolactone/gelatin/polydeoxyribonucleotides nanofiber for wound healing application | Tae-Hee Kim | Pukyong National University | Korea, Republic of | O-T01-0440 | |
| 32 | PS01-033 | October 7-8 | T01-Tissue regeneration | Triple cross-linked methacrylate kappa-carrageenan/poly(vinyl alcohol)/chitosan/galactosaccharide wound dressing hydrogel for wound healing application | Nam-Gyun Kim | Pukyong national university | Korea, Republic of | P-T01-0459 | |
| 33 | PS01-034 | October 7-8 | T01-Tissue regeneration | Topographical regulation for local bone regeneration in type 1 diabetes mellitus: In-vivo | MIN GUK KIM | Department of Dental Biomaterials, School of Dentistry, Kyungpook National University | Korea, Republic of | O-T01-0468 | |
| 34 | PS01-035 | October 7-8 | T01-Tissue regeneration | The effect of nanohydroxyapatite incorporated with micro RNA 21 in regulating osteogenesis | Reva Subramaniam | University Kebangsaan Malaysia | Malaysia | O-T01-0524 | |
| 35 | PS01-036 | October 7-8 | T01-Tissue regeneration | Anti-senescence ion-delivering nanocarrier for recovering therapeutic properties of long-term-cultured human adipose-derived stem cells | Yeong Hwan Kim | Sungkyunkwan University | Korea, Republic of | O-T01-0538 | |
| 36 | PS01-037 | October 7-8 | T01-Tissue regeneration | Mesenchymal stem cell and hydrogel treatment of oral ulcer | Hyun Seok Ryu | Interdisciplinary Program for Medical Laser, College of Medicine, Dankook University | Korea, Republic of | P-T01-0559 | |
| 37 | PS01-038 | October 7-8 | T01-Tissue regeneration | Salivary gland stem cell-derived exosomes produced by a Wnt-loaded microwell culture accelerates the recovery from salivary gland dysfunction in murine salivary gland damage models | Jae-Min Cho | Department of Otorhinolaryngology, Gangnam Severance Hospital, Yonsei University College of Medicine | Korea, Republic of | P-T01-0560 | |
| 38 | PS01-039 | October 7-8 | T01-Tissue regeneration | Secretome of human fetal cartilage progenitor cells as potential treatment agent for testosterone-induced hair loss | Ngoc-Trinh Tran | Department of Molecular Science and Technology, Ajou University, Suwon | Korea, Republic of | P-T01-0579 | |
| 39 | PS01-040 | October 7-8 | T01-Tissue regeneration | Matrilin3/TGF β 3 gelatin microparticles promote chondrogenesis, prevent hypertrophy, and induce paracrine release in MSC spheroid for disc regeneration | Alvin Bello | Dongguk University | Korea, Republic of | O-T01-0657 | |
| 40 | PS01-041 | October 7-8 | T01-Tissue regeneration | Alginate patch containing extracellular matrix effectively delivers mesenchymal stem cell-derived secretomes for advanced skin wound healing | Jae Won Kwon | Korea Institute of Science and Technology | Korea, Republic of | P-T01-0672 | |
| 41 | PS01-042 | October 7-8 | T01-Tissue regeneration | 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 | P-T01-0723 | |
| 42 | PS01-043 | October 7-8 | T01-Tissue regeneration | Engineered silk protein-based core-shell electrospun immunomodulatory fibrous scaffold for tissue regeneration with angiogenesis | Mercyjayapriya Jebakumar | CSIR - Central Leather Research Institute, Academy of Scientific and Innovative Research (AcSIR), Ghaziabad-201002, India | India | E-T01-0725 | |
| 43 | PS01-044 | October 7-8 | T01-Tissue regeneration | The effect of macromolecular crowding on decellularized graft mediated mesenchymal stromal cell delivery for treatment of wounds | Shanshan Du | Science Foundation Ireland (SFI) Centre for Research in Medical Devices (CURAM), Biomedical Sciences Building, National University of Ireland Galway (NUI Galway) | Ireland | E-T01-0788 | |
| 44 | PS01-045 | October 7-8 | T01-Tissue regeneration | Novel implantable, wireless electricity auto-generating patch accelerates the wound healing process by modulating mechanosensitive ion channels | Yu-Meng Li | Institute of Tissue Regeneration Engineering (ITREN), Dankook University, South Korea; Department of Nanobiomedical Science & BK21 PLUS NBM Global Research Center for Regenerative | Korea, Republic of | P-T01-0796 | |
| 45 | PS01-046 | October 7-8 | T01-Tissue regeneration | Therapeutic nanoglass paste as a drug-free platform for the regeneration of bacteria-infected hard tissues | Amal George Kurian | Institute of Tissue Regeneration Engineering (ITREN), Dankook University, Cheonan, 31116, Republic of Korea, Department of Nanobiomedical Science and BK21 PLUS NBM Global Research | Korea, Republic of | O-T01-0809 | |
| 46 | PS01-047 | October 7-8 | T01-Tissue regeneration | Cobalt doped silica microcarrier with action of promoting angiogenesis and bactericidal potential through dual-ion delivery | Oyunchimeg Bayaraa | 1 Institute of Tissue Regeneration Engineering (ITREN), Dankook University, South Korea. 2 Department of Nanobiomedical Science & BK21 PLUS NBM Global Research Center for Regenerative | Korea, Republic of | P-T01-0814 | |
| 47 | PS01-048 | October 7-8 | T01-Tissue regeneration | Floating electrode-dielectric barrier discharge-based plasma can accelerate skin regeneration in a full-thickness skin defect mouse model | Jiwon Son | Soonchunhyang Institute of Medi-bio Science (SIMS), Soonchunhyang University | Korea, Republic of | O-T01-0817 | |
| 48 | PS01-049 | October 7-8 | T01-Tissue regeneration | Elucidating the role of cell surface free thiol groups in myogenic differentiation of skeletal muscle progenitor cells by mild reduction of cell surface | Juyeon Kim | Soonchunhyang Institute of Medi-bio Science (SIMS) | Korea, Republic of | P-T01-0866 | |
| 49 | PS01-050 | October 7-8 | T01-Tissue regeneration | The multiple deliveries of bioactive ions and growth factor with antibacterial/angiogenic and osteogenic/odontogenic capacity of nano-therapeutic particles for regeneration of degenerated/infected tissue by bacteria | Nandin Mandakbayer | Dankook University, ITREN | Korea, Republic of | P-T01-0933 | |
| 50 | PS01-051 | October 7-8 | T01-Tissue regeneration | Effects of enamel matrix derivative on the cellular viability and differentiation potential of cell spheroids composed of gingiva-derived stem cells | Somyeong Hwa | Department of Periodontics, College of Medicine, The Catholic University of Korea | Korea, Republic of | P-T01-0968 | |

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| | Presentation No. | Presentation Date | Topic | Title | Name | Affiliation | Country | | |
| 51 | PS01-052 | October 7-8 | T01-Tissue regeneration | Enhanced wound healing with decellularized amniotic membrane hydrogels by supercritical CO2 process | Seongyeol Ye | Center for Biomaterials, Biomedical Research Institute, Korea Institute of Science and Technology, Seoul 02792, Republic of Korea | Korea, Republic of | P-T01-1026 | |
| 52 | PS01-053 | October 7-8 | T01-Tissue regeneration | The effect of hFC-MSCs on the induces bone formation by notch signaling | Jaemin Lee | Department of Biomedical Science, CHA University, Gyeonggi-do 13488 | Korea, Republic of | P-T01-1048 | |
| 53 | PS01-054 | October 7-8 | T01-Tissue regeneration | Thiolated mesoporous silica nanoparticles for the treatment of oxidative stress-associated osteoporosis | Nahida Rasool Dar | Indian Institute of Technology Ropar | India | P-T01-1051 | |
| 54 | PS01-055 | October 7-8 | T01-Tissue regeneration | 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 | Korea, Republic of | P-T01-1053 | |
| 55 | PS02-001 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Dendritic cell-derived nanovesicles for targeted delivery of immune checkpoint inhibitors to improve therapeutic efficacy and prevent side effects | Mungyo Jung | Seoul National University | Korea, Republic of | O-T02-0028 | |
| 56 | PS02-002 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Human hair keratin gradient hydrogels for skin regeneration | Marin Zhen Lin Yee | School of Materials Science and Engineering, Nanyang Technological University (Singapore), Institute for Health Technologies, Interdisciplinary Graduate Programme, Nanyang | Singapore | E-T02-0029 | |
| 57 | PS02-003 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Double layered titanium-chitosan based scaffolds for regenerative bone techniques | Neelam Iqbal | School of Chemical and Processing Engineering, Engineering Building, University of Leeds | United Kingdom | P-T02-0055 | Withdraw |
| 58 | PS02-004 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Challenges in mixing of multiple components in nanocomposite bioink for 3D bioprinting | SHIVA TAHERI | Convergence Institute of Biomedical Engineering and Biomaterials, Seoul National University of Science and Technology, Seoul 01811 | Korea, Republic of | P-T02-0062 | |
| 59 | PS02-005 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Even tissue formation by uniform cell distribution during 3D bioprinting | MST Rita Khatun | Department of Chemical and Biomolecular Engineering, Seoul National University of Science and Technology, Seoul 01811 | Korea, Republic of | P-T02-0063 | |
| 60 | PS02-006 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Kombucha-cultured nanocellulose for 3D bioprinting | Amitava Bhattacharyya | 1 Department of Chemical and Biomolecular Engineering, Seoul National University of Science and Technology, Seoul 01811/ 2. Convergence Institute of Biomedical Engineering and Biomaterials, | Korea, Republic of | P-T02-0064 | |
| 61 | PS02-007 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Isolation of colon cancer cells using membrane filtration method | Zhe-Wei Zhu | National Central University | Chinese Taipei | O-T02-0089 | |
| 62 | PS02-008 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Photo-crosslinked gelatin-methacryloyl hydrogel strengthened with in situ formed nanoparticles for regeneration of rabbit calvarial defects | Da-Na Lee | Department of Periodontology, Research Institute for Periodontal Regeneration, Yonsei University College of Dentistry | Korea, Republic of | P-T02-0109 | |
| 63 | PS02-009 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Fabrication of cell scaffold capable of sustained oxygen release by hydroxyapatite formation on calcium peroxide | Daisuke Tomioka | Osaka University | Japan | O-T02-0115 | |
| 64 | PS02-010 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Three-dimensionally printed biphasic calcium phosphate blocks with different pore diameters for regeneration in rabbit calvarial defects | Young-Wook Seo | Department of periodontology, Research institute of periodontal regeneration, Yonsei University College of Dentistry, Seoul, Korea | Korea, Republic of | P-T02-0126 | |
| 65 | PS02-011 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Design and fabrication of bone scaffolds with the auxetic structure | Masoud Shirzad | Industry 4.0 Convergence Bionics Engineering, Pukyong National University | Korea, Republic of | P-T02-0155 | |
| 66 | PS02-012 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Cell laden gelatin hydrogel with carbodiimide or genipin-crosslinked for glottic insufficiency: An in vitro study | Wan Chiew Ng | Department of Otorhinolaryngology-Head and Neck Surgery, Universiti Kebangsaan Malaysia | Malaysia | O-T02-0173 | |
| 67 | PS02-013 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Application of bacterial cellulose membrane in cancer cell isolation | Yin-Tzu Chen | Department of Biomedical Engineering, National Taiwan University | Chinese Taipei | P-T02-0180 | |
| 68 | PS02-014 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Cytocompatibility of corneal cells towards ovine collagen type 1 hydrogel | Nur Amalia Ra'oh | Department of Ophthalmology, Faculty of Medicine, National University Malaysia, 56000, Cheras, Kuala Lumpur, Malaysia. | Malaysia | E-T02-0181 | |
| 69 | PS02-015 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Design, fabrication, and assessment of a robust modified-honeycomb-structure scaffold with enhanced interconnectivity for bone tissue engineering | Rigoberto Lopez Reyes | Mechabiogroup, Wonkwang University | Korea, Republic of | P-T02-0189 | |
| 70 | PS02-016 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Bioinspired peptide hydrogels for controlled delivery of viral vectors to reprogram endogenous reactive astrocytes to neurons in acquired brain injury | Negar Mahmoudi | ACRF Department of Cancer Biology and Therapeutics, The John Curtin School of Medical Research, ANU College of Health & Medicine, Australia | Australia | E-T02-0194 | |
| 71 | PS02-017 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Development and evaluation of freeze dried and electrospun scaffolds from chitosan, gelatin and nano ceramic phosphate for bone tissue engineering | Yogendra Pratap Singh | National Institute of Technology Rourkela, India | India | E-T02-0219 | |
| 72 | PS02-018 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Investigation of the potential for osteochondral tissue regeneration via a novel biphasic 3D printed silk reinforced scaffold | Thomas Braxton | Biomaterials and Tissue Engineering Group, Dept. of Oral Biology, University of Leeds | United Kingdom | P-T02-0223 | |
| 73 | PS02-019 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | A novel biofabrication process to generate vascularised 3D bioprinted constructs to support islet transplantation for the treatment of type 1 diabetes | Anna Kulaga | University of Wollongong | Australia | E-T02-0234 | |
| 74 | PS02-020 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | 3D printed natural hydroxyapatite-embedded titanium implants promoting osseointegration | Juo Lee | Sunchon National Univ | Korea, Republic of | P-T02-0238 | |
| 75 | PS02-021 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Development of 3D printable calcium phosphate cement based on cockle shell powder/ β -TCP | Eunbee Cho | Sunchon National University | Korea, Republic of | P-T02-0239 | |
| 76 | PS02-022 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Natural killer cell membrane coated gold nanoparticles for cell membrane immunotherapy | Seojeong Yun | Dongguk university | Korea, Republic of | O-T02-0245 | |
| 77 | PS02-023 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | The fabrication of highly porous cell-laden structure | JIUN LEE | Sungkyunkwan university | Korea, Republic of | E-T02-0247 | |
| 78 | PS02-024 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Collagen-based bioink for 3D bioprinting to obtain mechanically enhanced porous 3D cell-laden structure | YoungWon Koo | Sungkyunkwan University | Korea, Republic of | E-T02-0249 | |
| 79 | PS02-025 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Fabrication of 3D cell-constructs using photocrosslinkable bioin | SooJung Chae | Sungkyunkwan University | Korea, Republic of | E-T02-0258 | |
| 80 | PS02-026 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Development of a novel hemostatic biomaterial using keratin-conjugated fibrinogen for oral tissue regeneration | HYEON JEONG KANG | School of Dentistry, Kyung Hee University | Korea, Republic of | P-T02-0261 | |
| 81 | PS02-027 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Topical bioadhesive hemostatic agents for bleeding site care at visceral surgeries | Jaeyun Lee | Department of Chemical Engineering, Pohang University of Science and Engineering | Korea, Republic of | O-T02-0265 | |
| 82 | PS02-028 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Application of cartilage extracellular matrix for enhancing the therapeutic efficacy of rheumatoid arthritis drug | JeongWoo Seo | Pukyong National University | Korea, Republic of | P-T02-0266 | |
| 83 | PS02-029 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Functional skeletal muscle regeneration using muscle mimetic tissue fabricated by microvalve-assisted coaxial 3D bioprinting | Hanna Lee | Nano-Bio Regenerative Medical Institute, College of Medicine, Hallym University, and Hallymdaehak-gil, Chuncheon, Gangwon-do 24252, Republic of Korea | Korea, Republic of | P-T02-0267 | |
| 84 | PS02-030 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Double layered conductive nanoparticles for bioelectronics surface using mussel-derived protein | Hyun Tack Woo | Department of Chemical Engineering, Pohang University of Science and Technology | Korea, Republic of | P-T02-0268 | |
| 85 | PS02-031 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Hybrid bio 3D printing technology using photocurable bio ink / poly-caprolactone for cartilage regeneration | Ji Won Heo | Nano-Bio Regenerative Medical Institute, College of Medicine, Hallym University, 1 Hallymdaehak-gil, Chuncheon, Gangwon-do 24252, Republic of Korea | Korea, Republic of | E-T02-0272 | |
| 86 | PS02-032 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Fabrication of graphene oxide composite ultra-strong stretchable hydrogel with high conductivity and biocompatibility | ojun Kwon | Hallym University | Korea, Republic of | E-T02-0278 | |
| 87 | PS02-033 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | 3D printed fish-derived extracellular matrix scaffolds for bone tissue engineering | SeoYul Jo | sungkyunkwan university | Korea, Republic of | E-T02-0283 | |
| 88 | PS02-034 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Fabrication and characterization of a myrrh hydrocolloid dressing for dermal wound healing | Jang Min Kim | Hallym University | Korea, Republic of | E-T02-0284 | |
| 89 | PS02-035 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Multi-functional microwell array platform for spontaneous glioblastoma spheroid formation and anticancer drug screening | Fu-Nan Ju | School of Integrative Engineering, Chung-Ang University | China | P-T02-0292 | |
| 90 | PS02-036 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Matrix stiffness dependent nuclear transport of STAT6 determines M2 activation of macrophages | Jeong-Ki Kim | Korea University | Korea, Republic of | E-T02-0294 | |
| 91 | PS02-037 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Effect of silk fibroin/ nano-hydroxyapatite composite on immune responses | Kallista Wong | National University of Singapore | Singapore | P-T02-0303 | |
| 92 | PS02-038 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Sprayable Ti3C2 MXene hydrogel for wound healing and skin cancer therapy | Hyeong taek Park | Department of IT Convergence (Brain Korea Plus 21), Korea National University of Transportation, Chungju, 27469, Republic of Korea | Korea, Republic of | P-T02-0322 | |
| 93 | PS02-039 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | 3D bioprinting LEGO system to construct large 3D-tissues with complex property | Michiya Matsusaki | Division of Applied Chemistry, Graduate School of Engineering, Osaka University, Japan | Japan | O-T02-0324 | |
| 94 | PS02-040 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | 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 | O-T02-0326 | |
| 95 | PS02-041 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | SUN1-mediated nuclear tension determines nuclear wrinkling in progerin expressing cells | Juhyeon Jo | Korea University | Korea, Republic of | P-T02-0332 | |
| 96 | PS02-042 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Development of elastin-like protein derived from the domain of human elastin | Seung Kyeum Cho | Division Interdisciplinary Bioscience and Bioengineering, Pohang University of Science and Technology | Korea, Republic of | O-T02-0343 | |
| 97 | PS02-043 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Cellulose-based tissue adhesive hydrogels for hemostatic application | Jihoon Jeon | Yonsei University | Korea, Republic of | P-T02-0345 | |
| 98 | PS02-044 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Fabrication of perfusable and free-form In vitro vascular model using a coaxial nozzle | Min-Gyun Kim | Department of Rural and Biosystems Engineering, College of Agriculture and Life Sciences, Chonnam National University | Korea, Republic of | P-T02-0350 | |
| 99 | PS02-045 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Neurotransmitter-modified fibrous artificial 3D constructs for effective muscle regeneration | Kyoungryong Kim | Sungkyunkwan University | Korea, Republic of | P-T02-0368 | |
| 100 | PS02-046 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Self-assembly small diameter vasculature via dragging 3D printing technique | Jae-Seok Kim | Wonkwang University | Korea, Republic of | P-T02-0377 | |

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| No. | Presentation Info. | | Abstract Info. | | Presenter's Info. | | | Submission No. | Remarks |
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| | Presentation No. | Presentation Date | Topic | Title | Name | Affiliation | Country | | |
| 101 | PS02-047 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | 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 | O-T02-0387 | |
| 102 | PS02-048 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Selective modulation of single cell migration via double-strand DNA rupture force | Seong-Beom Han | Korea University | Korea, Republic of | P-T02-0393 | |
| 103 | PS02-049 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | 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 Kebangsaan Malaysia) | Malaysia | E-T02-0410 | |
| 104 | PS02-050 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Decellularised human umbilical arteries: exploring its potential as a readily available off-the-shelf coronary graft | Jun Wei Heng | Universiti Kebangsaan Malaysia | Malaysia | E-T02-0414 | |
| 105 | PS02-051 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Dermal extracellular matrix-derived nanoparticles improve the biological relevance of gelatine bioinks for future wound healing applications | Ali Smandri | Centre For Tissue Engineering and Regenerative Medicine, Faculty of Medicine, Universiti Kebangsaan Malaysia, Cheras, Kuala Lumpur, 56000 | Malaysia | O-T02-0418 | |
| 106 | PS02-052 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | The development of multifunctional nerve guidance conduit using milk derived protein for peripheral nerve regeneration | Jin Jeon | Department of Nanobiomedical Science & BK21 FOUR NBM Global Research Center for Regenerative Medicine, Dankook University, Cheonan, 31116, Republic of Korea and Center for Bio-Medical | Korea, Republic of | O-T02-0421 | |
| 107 | PS02-053 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Hydroxy-conjugated bifacial scaffolds for localized drug delivery system | Yongwook Son | Yonsei Univ. | Korea, Republic of | P-T02-0422 | |
| 108 | PS02-054 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Engineering autologous vascularized thrombus implants for enhancing cutaneous wound healing | Su Hyun Jung | UNIST (Ulsan National Institute of Science and Technology) | Korea, Republic of | E-T02-0428 | |
| 109 | PS02-055 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Fabrication of phycocyanin based fibrous membrane coated fish collagen for bone regeneration | Se-Chang Kim | Pukyong National Univetsity | Korea, Republic of | O-T02-0436 | |
| 110 | PS02-056 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | A bio-adhesive hyaluronic acid hydrogel for pH-versatile biomedical applications | Soothan An | Department of Biotechnology, Yonsei University, Seoul, Republic of Korea | Korea, Republic of | P-T02-0439 | |
| 111 | PS02-057 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Acellular matrix film incorporating phlorotannins from <i>Ecklonia</i> cava suppressed post-implantation inflammatory responses | Tae-Hee Kim | Pukyong National University | Korea, Republic of | P-T02-0443 | |
| 112 | PS02-058 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Fish collagen/PCL nanofibrous scaffolds with cross-linked chito oligosaccharides for full-thickness wound healing | Dong-Joo Park | Pukyong National University | Korea, Republic of | P-T02-0446 | |
| 113 | PS02-059 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Ovine collagen type-I (OTC-I) biomatrix integrated with antibacterial coating for rapid treatment in diabetic wound care management | Nor Amirrah Ibrahim | Centre for Tissue Engineering and Regenerative Medicine, Universiti Kebangsaan Malaysia | Malaysia | O-T02-0447 | |
| 114 | PS02-060 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Fabrication of antioxidant and anti-inflammatory hydrogel based on fish skin gelatin/oxidized hyaluronate for accelerated wound healing | Dong-Joo Park | Pukyong National University | Korea, Republic of | P-T02-0448 | |
| 115 | PS02-061 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Fabrication of injectable iron(III) crosslinked hyaluronic acid/pectin hydrogel with antimicrobial activities | Nam-Gyun Kim | Pukyong National University | Korea, Republic of | P-T02-0454 | |
| 116 | PS02-062 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Characterisation of native tissue and development of multiphasic scaffolds for engineering of bone-ligament interface | Ilayda Karadag | University of Oxford | United Kingdom | E-T02-0457 | |
| 117 | PS02-063 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Decellularized plant and fungal-based scaffolds for the <i>in vitro</i> production of bovine meat | Hyunjin Kim | Yeungnam University | Korea, Republic of | P-T02-0458 | |
| 118 | PS02-064 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | 3D bioprinting of islet-like aggregates using dual-crosslinked hydrogel with promoted biofunctionality and enhanced shape stability | Yeongwon Jo | Pohang University of Science and Technology (POSTECH) | Korea, Republic of | O-T02-0462 | |
| 119 | PS02-065 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Dual controlled photocrosslinkable and photodegradable gelatin-based hydrogel | MIN CHUN TSAI | Department of Materials Science and Engineering, National Tsing Hua University | Chinese Taipei | O-T02-0464 | |
| 120 | PS02-066 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | <i>In situ</i> forming and copper-containing hydrogel as a controlled nitric oxide-releasing scaffold for tissue engineering | Simin Lee | Department of Molecular Science and Technology, Ajou University, Suwon 16499, Republic of Korea (*kdp@ajou.ac.kr) | Korea, Republic of | P-T02-0469 | |
| 121 | PS02-067 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | 3D printing of biohybrid electrical stimulation platform to promote insulin secretion of pancreatic β cell | Jihwan Kim | POSTECH, Pohang, Gyeongbuk, South Korea | Korea, Republic of | O-T02-0472 | |
| 122 | PS02-068 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Enzyme-based on-demand photo-cross-linkable hydrogel for image-guided vascular embolization | Han Jungmin | Donga Univ | Korea, Republic of | P-T02-0473 | |
| 123 | PS02-069 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Development of light-blocking nanofiber membrane for a three-dimensional <i>in vitro</i> angiogenesis model capable of real-time selective imaging | Byeong-Ung Park | Kyungpook national university | Korea, Republic of | P-T02-0474 | |
| 124 | PS02-070 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Development of silk-based cultured meat scaffold with aligned fibrous texture | Xuan Hao Tan | National University of Singapore | Singapore | E-T02-0476 | |
| 125 | PS02-071 | October 5-6 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Harnessing the <i>in vivo</i> inflammatory response for tissue engineering | Li Yenn Yong | University of Manchester | United Kingdom | E-T02-0483 | |
| 126 | PS02-072 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | 3D chondrogenic differentiation of human stem cells in reprogramming factor-based injectable hydrogel for cartilage tissue engineering | Sumi Choi | Dong-A University | Korea, Republic of | P-T02-0489 | |
| 127 | PS02-073 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Natural-origin injectable hydrogel for acellular skin wound treatment | Nike Utami | Universiti Kebangsaan Malaysia | Malaysia | E-T02-0491 | |
| 128 | PS02-074 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Transplantation of the cultured human corneal endothelial cells with decellularized extracellular matrix in the corneal endothelial dysfunction rabbit model | Hun Lee | Department of Ophthalmology, Asan Medical Center, University of Ulsan College of Medicine | Korea, Republic of | P-T02-0494 | |
| 129 | PS02-075 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Bio-adhesive complex coacervate-mediated localized AAV delivery | Hyun-Woo Park | Yonsei University, South Korea | Korea, Republic of | P-T02-0500 | |
| 130 | PS02-076 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Thiol-ene clickable silk fibroin bio-ink for digital light processing bio-printing | Xuan Hao Tan | National University of Singapore | Singapore | E-T02-0505 | |
| 131 | PS02-077 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Biomaterials text mining: A comparative study of methods on the biocompatible polymer polydioxanone | Carla Veronica Fuenteslopez | Institute of Biomedical Engineering, University of Oxford | United Kingdom | E-T02-0506 | |
| 132 | PS02-078 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Anti-inflammatory, dry adhesive patches based on catechol-modified sulfated hyaluronic acid for multipurpose application | Wonmoon Song | Seoul National University | Korea, Republic of | E-T02-0512 | |
| 133 | PS02-079 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Strong adhesive hemostatic agent based on catechol-chitosan and hyaluronic acid | Jeong HaeIn | Seoul National University, Republic of Korea Army | Korea, Republic of | O-T02-0519 | |
| 134 | PS02-080 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Bioadhesive cryogel for non-compressible haemostasis during orthopaedic surgical procedure | Sivashanmugam Amirthalingam | Institute of Engineering Research, Seoul National University, Seoul 08826, South Korea | Korea, Republic of | P-T02-0522 | |
| 135 | PS02-081 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Integrating endothelialized microchannels with mesenchymal stem cell spheroids in a 3D-printed construct for ischemic disease therapy | Aruzhan Naren | UNIST | Korea, Republic of | O-T02-0526 | |
| 136 | PS02-082 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Ceramic loaded tissue adhesive composite gel for rapid hemostasis in osteo-surgeries | Arun Kumar Rajendran | School of Chemical and Biological Engineering, The Institute of Chemical Processes, Seoul National University, Seoul, 08826 | Korea, Republic of | P-T02-0543 | |
| 137 | PS02-083 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Efficient activation of dendritic cells with CpG-coated functional nanoparticle | Jaesung Lim | Sungkyunkwan University | Korea, Republic of | P-T02-0549 | |
| 138 | PS02-084 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Modulating sepsis-associated NETosis dysregulation using bioinspired DNase- I-coated polymeric nanospheres | Yun Young Lee | Seoul National University College of Medicine | Korea, Republic of | P-T02-0550 | |
| 139 | PS02-085 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Engineered endothelium model ensures direct EC-pericytes interactions via polyvinyl alcohol/ECM-based artificial basement membrane | Avelino Dos Santos Da Costa | Center for Biomaterials, Korea Institute of Science and Technology | Korea, Republic of | O-T02-0571 | |
| 140 | PS02-086 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Nano-graphene oxide crosslinking improves <i>in vivo</i> durability of decellularized scaffold through MMP suppression and immunomodulation | Da-Hyun Kim | Seoul National University | Korea, Republic of | P-T02-0585 | |
| 141 | PS02-087 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Development of poly(lactide-co-caprolactone) film combined with mesenchymal stem cell-derived matrix for corneal endothelial cells transplantation | Eui Sun Song | University of Science and Technology, Korea Institute of Science and Technology | Korea, Republic of | P-T02-0595 | |
| 142 | PS02-088 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Spray nebulization enables polycaprolactone nanofiber production in a manner suitable for generation of scaffolds or direct deposition of nanofibers onto cells | Eamonn McKenna | Centre for Biomedical Technologies, Queensland University of Technology | Australia | E-T02-0598 | Withdraw |
| 143 | PS02-089 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Agarose-snail mucus hybrid 3D scaffold for cartilage tissue engineering | Victor A. Ajisafe | Indian Institute of Science Bangalore | India | O-T02-0602 | Withdraw |
| 144 | PS02-090 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Enzyme-mediated redox system for tissue engineering | Su-Hwan Kim | Dong-A University | Korea, Republic of | P-T02-0608 | |
| 145 | PS02-091 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Development of PDRN loaded alginate/silica hybrid hydrogel scaffold using 3D printing for enhanced diabetic wound healing | Hyun Lee | The Catholic University of Korea | Korea, Republic of | P-T02-0618 | |
| 146 | PS02-092 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Fabrication of biomimetic microneedle patches with anti-microbial and enhanced wound healing ability using DLP-based 4D printing | Hyun Lee | The Catholic University of Korea | Korea, Republic of | O-T02-0620 | |
| 147 | PS02-093 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Investigation of shear flow effect on vascular endothelium under a dynamic flow system | Vadym Kopych | KIST | Korea, Republic of | P-T02-0633 | |
| 148 | PS02-094 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Human and ovine collagen type I as biomaterials for wound healing | Loai Elfawy | Centre for Tissue Engineering and Regenerative Medicine, Faculty of Medicine, Universiti Kebangsaan Malaysia, Cheras, Kuala Lumpur 56000, Malaysia | Malaysia | O-T02-0641 | Withdraw |
| 149 | PS02-095 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Composite scaffolds of gelatin and Fe3O4 nanoparticles for magnetic hyperthermia-based breast cancer treatment and adipose tissue regeneration | Rui Sun | a.Research Center for Functional Materials, National Institute for Materials Science; b.School of Pure and Applied Sciences, University of Tsukuba | Japan | O-T02-0643 | |
| 150 | PS02-096 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Development of PLA/sirolimus coated biodegradable PCL/SiO2 stents fabricated by 3D printing | Ginam Han | Catholic University of Korea | Korea, Republic of | P-T02-0645 | |

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| No. | Presentation Info. | | Abstract Info. | | Presenter's Info. | | | Submission No. | Remarks |
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| | Presentation No. | Presentation Date | Topic | Title | Name | Affiliation | Country | | |
| 151 | PS02-097 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Development of drug-eluting bullets with controlled drug release and radiopacity for anti-cancer treatment | Ginam Han | Catholic University of Korea | Korea, Republic of | P-T02-0646 | |
| 152 | PS02-098 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | 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) | Korea, Republic of | P-T02-0663 | |
| 153 | PS02-099 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Influence of viscosity on osteogenesis and adipogenesis of mesenchymal stem cells with controlled morphology | Jing Zheng | Tissue Regeneration Materials Group, Research Center for Functional Materials, National Institute for Materials Science, Department of Materials Science and Engineering, Graduate School | Japan | O-T02-0669 | |
| 154 | PS02-100 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Fabrication and evaluation of a powder-type hemostatic agent with effective adhesion property | Ye Lim Lee | Kumoh National Institute of Technology | Korea, Republic of | P-T02-0697 | |
| 155 | PS02-101 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Fabrication and characterization of a powder-type anti-adhesion agent with improved adhesiveness using hyaluronic acid | InHae Shin | Kumoh National Institute of Technology | Korea, Republic of | P-T02-0698 | |
| 156 | PS02-102 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Development of a powder-type adhesive hemostatic agent containing blood coagulation agent | Dong Hun Kang | Kumoh National Institute of Technology | Korea, Republic of | P-T02-0699 | |
| 157 | PS02-103 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Detection of cancer using carbon dot-based conductive hydrogels with controlled pH-sensitivity through boronate ester bonds | Hyeong Jun Jo | Department of IT and Energy Convergence (BK21 FOUR), Korea National University of Transportation | Korea, Republic of | P-T02-0722 | |
| 158 | PS02-104 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | GSH responsive carbon dots incorporated flexible and stretchable skin sensor with wireless monitoring of pressure strain response in cancer condition | Kaustuv Roy | Department of IT and Energy Convergence (BK21 PLUS), Korea National University of Transportation | Korea, Republic of | P-T02-0726 | |
| 159 | PS02-105 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Real-time wireless detection of tumor cells using a ROS-sensitive sensor comprising a diselenide polymer dot-coated surface | Sunu Hangma Subba | Department of IT and Energy Convergence (BK21 FOUR), Korea National University of Transportation | Korea, Republic of | P-T02-0728 | |
| 160 | PS02-106 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Tumor microenvironment-dependent maturation of hepatocarcinoma cells spheroids formed within microfluidics-generated 3D microgels for chemotherapeutics testing | Baek Seung Yeop | Ulsan National Institute of Science and Technology | Korea, Republic of | P-T02-0729 | |
| 161 | PS02-107 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Treatment of large bone defects using an engineered bone scaffold that can recruit host reparative cells, regulate redox homeostasis and promote osteogenesis | Cam-Hoa Mac | Department of Chemical Engineering, National Tsing Hua University, Hsinchu | Chinese Taipei | P-T02-0730 | Withdraw |
| 162 | PS02-108 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Engineering a composite hydrogel dressing that can accelerate wound healing and noninvasively detect wound infection | Nhien Nguyen | Department of Chemical Engineering, National Tsing Hua University, Hsinchu, Taiwan, ROC | Chinese Taipei | P-T02-0746 | Withdraw |
| 163 | PS02-109 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Preparation of multiscale biomedical scaffold by assembling self-healable hydrogel modules | JaeWook Park | Yonsei University | Korea, Republic of | P-T02-0747 | |
| 164 | PS02-110 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Fabrication of biomimetic scaffold for glycosaminoglycan (GAG)-rich tissue | Xingxing Yang | Tissue Engineering Laboratory, Department of Mechanical Engineering, The University of Hong Kong, Pokfulam Road, Hong Kong, China | Hong Kong | E-T02-0751 | |
| 165 | PS02-111 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Gelatin scaffold with lipid-PLGA microparticles for sustained curcumin release and corneal tissue engineering | Chun Kai Chang | National Tsing Hua University | Chinese Taipei | P-T02-0759 | |
| 166 | PS02-112 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Development of cell-laden α -TCP/GeLMA 3D construct for hard tissue regeneration | Jueun Kim | University of Science and Technology (UST) | Korea, Republic of | O-T02-0763 | |
| 167 | PS02-113 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Separable double-layer microneedle codelivery of Dox and LPS for treating subcutaneous glioma tumor via immunotherapy | Zhen Xiang Hong | National Taiwan University of Science and Technology | Chinese Taipei | P-T02-0779 | |
| 168 | PS02-114 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Synergistic composite for wound healing by delivery of fibroblast growth factor | Minju Kim | UNIST | Korea, Republic of | P-T02-0785 | |
| 169 | PS02-115 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Zinc ion-releasing tissue adhesives for wound management | Sung Eun Kim | Incheon National University | Korea, Republic of | E-T02-0823 | |
| 170 | PS02-116 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Zinc ion-releasing <i>in situ</i> crosslinkable hydrogels for endogenous tissue regeneration | Yeonjeong Kim | Incheon National University | Korea, Republic of | O-T02-0839 | |
| 171 | PS02-117 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Assessing jellyfish collagen hydrogel for supporting human osteoblasts | Chaozong Liu | University College Londo (UCL) | United Kingdom | E-T02-0845 | |
| 172 | PS02-118 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Gelatin-based dual delivery matrices releasing calcium and oxygen to facilitate vascularized bone tissue regeneration | Jeong Min Kim | Incheon National University | Korea, Republic of | P-T02-0846 | |
| 173 | PS02-119 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Silk-collagen hydrogel improves therapeutic effects of mesenchymal stem cells on neovascularization in hindlimb ischemia via FAK/Src axis | Yeo-Gyun Yun | Institute of Tissue Regeneration Engineering (ITREN), Dankook University, Cheonan 31116, Republic of Korea. Department of Nanobiomedical Science and BK21 PLUS NBM Global Research | Korea, Republic of | P-T02-0847 | |
| 174 | PS02-120 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Chondrocyte-mimicking microspheres for osteochondral defect repair | ZECHU ZHOU | Institute of Tissue Regeneration Engineering (ITREN), Dankook University, South Korea; Department of Nanobiomedical Science & BK21 PLUS NBM Global Research Center for Regenerative | Korea, Republic of | O-T02-0848 | |
| 175 | PS02-121 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Oxygen-supplying syringe to create hyperoxia-inducible hydrogels for <i>in situ</i> tissue regeneration | Jeon Il Kang | Incheon National University | Korea, Republic of | O-T02-0849 | |
| 176 | PS02-122 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Long-term maintenance of viable adipocytes and enhanced blood vessel infiltration in vivo using spheroid-based bioprinted construct | Hanan Mohamed | Ulsan National Institute of Science and Technology (UNIST) | Korea, Republic of | O-T02-0850 | |
| 177 | PS02-123 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Controlled drug release by a tough and adhesive bilayer hydrogel with external stimulation | Jeesoo Park | Jeonbuk National University | Korea, Republic of | P-T02-0854 | |
| 178 | PS02-124 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Bio-reprinting technique as an advanced method for micro-scaled tissue structure fabrication | Jae-Hun Kim | Tech University of Korea | Korea, Republic of | P-T02-0868 | |
| 179 | PS02-125 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | A multiple surface modification used in Ti, and 3D-printed Ti alloy scaffold to regulate osteoimmunology, angiogenesis and osteogenesis for orthopaedic and dental implant application | Chia-Fei Liu | Department of Dentistry, National Yang Ming Chiao Tung University, Taipei, Taiwan | Chinese Taipei | E-T02-0872 | |
| 180 | PS02-126 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | pH-sensitive photonic crystal patch for wound healing monitoring | YongHoe Koo | Unist | Korea, Republic of | P-T02-0874 | |
| 181 | PS02-127 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Bio-ink and 3D printing-based to mimic of three-dimensional skin complex with internal blood vessels | Dongjin Lee | Korea Institute of Machinery and Materials | Korea, Republic of | P-T02-0912 | |
| 182 | PS02-128 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | 3D conduit model bio printing for mimicking the human intestine | Seunghun son | Korea institute of machinery and materials | Korea, Republic of | P-T02-0914 | |
| 183 | PS02-129 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Stent-based electrode for radiofrequency ablation in the rat esophagus: A proof-of concept study | Dong-Sung Won | Biomedical Engineering Research Center, Asan Institute for Life Sciences, Asan Medical Center | Korea, Republic of | P-T02-0936 | |
| 184 | PS02-130 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Intragastric satiety-inducing device combined with photodynamic therapy to treat obesity | Ji Won Kim | Asan Medical Center | Korea, Republic of | P-T02-0950 | |
| 185 | PS02-131 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Development of 3D printed thermo-responsive skin-derived decellularized extracellular matrix hydrogel adhesive patch with controllable shrinkage behavior | Sungkeon Cho | POSTECH, Pohang, Gyeongbuk, 37666 | Korea, Republic of | P-T02-0972 | |
| 186 | PS02-132 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Development of 3D printing-based tendon-derived stem cell-laden 3D microtissues for tendon tissue engineering | Jothilin Subitsha Alex Jeberson | Soonchunhyang Institute of Medi-bio Science (SIMS), Soonchunhyang University | Korea, Republic of | P-T02-0980 | |
| 187 | PS02-133 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Development of anti-fouling and anti-thrombogenic surface using visible light cross-linked zwitterionic hydrogel coatings for implantable medical devices | Soonjong Roh | Korea Institute of Science and Technology | Korea, Republic of | P-T02-0986 | |
| 188 | PS02-134 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Visible light activated collagen based hydrogel for rotator cuff regeneration | Yerim Song | Korea Institute of Science and Technology | Korea, Republic of | P-T02-0987 | |
| 189 | PS02-135 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Polycaprolactone scaffolds with improved mechanical properties and structural stability fabricated by a screw extrusion-type 3D printer | Jae Jun Kang | Medifab Co, Ltd. | Korea, Republic of | P-T02-0992 | |
| 190 | PS02-136 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Development of a superhydrophilic surface for antifouling and antithrombotic properties using layer-by-layer assembly of laponite and heparin | Seyoun Jang | Center for Biomaterials, Biomedical Research Institute, Korea Institute of Science and Technology (KIST) | Korea, Republic of | P-T02-0996 | |
| 191 | PS02-137 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | 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 | Korea, Republic of | P-T02-0997 | |
| 192 | PS02-138 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | <i>In-vivo</i> biological safety and longevity study of thermal-sensitive chitosan dermal filler | Soo Hee Lee | Medifab | Korea, Republic of | P-T02-1006 | |
| 193 | PS02-139 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Development of a 3D culture hydrogel and artificial skin model based on alginate-decellularized extracellular matrix | Seon Mi Park | MediFab Co.,Ltd | Korea, Republic of | P-T02-1007 | |
| 194 | PS02-140 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Cationic N,N,N-trimethyl chitosan biomaterial-mediated modulation of inflammatory cytokines for wound healing and tissue regeneration | Hayoung Lee | Interdisciplinary Program for Medical Laser, Dankook University | Korea, Republic of | P-T02-1008 | |
| 195 | PS02-141 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Design of artificial human keloid skin equivalents with collagen-based hydrogels | Lee Jong Min | Center for Biomaterials, Biomedical Research Institute, Korea Institute of Science and (Technology KIST) | Korea, Republic of | P-T02-1010 | |
| 196 | PS02-142 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | The effect of PLCL nerve guidance conduit and electrical stimulation on facial nerve regeneration | Goeun Choe | Korea Institute of Science and Technology | Korea, Republic of | P-T02-1012 | |
| 197 | PS02-143 | October 7-8 | T02-Biomaterials (scaffold, 3D printing, fabrication, etc.) | Layer-by-layer coatings for the enhanced biological performance of orthopaedic implants | Muhammad Faruqi | Newcastle University | United Kingdom | P-T02-1044 | |
| 198 | PS03-001 | October 5-6 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | A senolytic-eluting coronary stent for the prevention of in-stent restenosis | Cheesue Kim | Seoul National University | Korea, Republic of | O-T03-0026 | |
| 199 | PS03-003 | October 5-6 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | Genetic fusion of a human serum albumin-specific protein binder significantly increases the biological functionality and blood circulation time of human interleukin-15 | Jin-Ho Park | Gyeongsang National Univ. | Korea, Republic of | P-T03-0065 | |
| 200 | PS03-004 | October 5-6 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | Tumor intracellular microenvironment-responsive nanoparticles for magnetically targeted chemotherapy | SHAMEER PILLARISETTI | Department of Biomedical Sciences, Chonnam National University Medical School, 264, Seoyang-ro, Jeollanam-do, 58128, Republic of Korea. | Korea, Republic of | P-T03-0122 | |

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| | Presentation No. | Presentation Date | Topic | Title | Name | Affiliation | Country | | |
| 201 | PS03-005 | October 5-6 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | Capsulation technique-based intercellular organelle transfer for osteoarthritis therapy | Hye-Ryoung Kim | CHA University | Korea, Republic of | P-T03-0172 | |
| 202 | PS03-006 | October 5-6 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | Fabrication of a polymeric inhibitor of membrane-type co-localized enzymes for synergistic inhibition of cancer cell metabolism | Yuki Koba | Osaka University | Japan | O-T03-0186 | |
| 203 | PS03-007 | October 5-6 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | Cell-favorable protein-based adhesive microcapsules for NK cells-mediated cancer immunotherapy | Hyun Sun Choi | POSTECH | Korea, Republic of | P-T03-0212 | |
| 204 | PS03-008 | October 5-6 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | Click chemistry complex drug delivery system using tissue extracellular matrix for the anti-tumor therapy | Sung-Han Jo | Industry 4.0 Convergence Bionics Engineering, Pukyong National University | Korea, Republic of | P-T03-0240 | |
| 205 | PS03-009 | October 5-6 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | Transdermal delivery of hyaluronate based upconverting nanoparticle | Hye Eun Choi | Pusan National University | Korea, Republic of | P-T03-0275 | |
| 206 | PS03-010 | October 5-6 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | Doxycycline-eluting core-shell type nanofiber-covered trachea stent for inhibition of cellular metalloproteinase and its related fibrotic stenosis | Ngoc-Thuan Truong | Department of Biomedical Science, BK21 FOUR Program in Biomedical Science and Engineering, Inha University College of Medicine, Incheon 22212, Korea | Korea, Republic of | P-T03-0289 | |
| 207 | PS03-011 | October 5-6 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | Improved properties of polymeric micelles via hydrophobic core-clustering of superparamagnetic iron oxide nanoparticles | Su-Geun Yang | Department of Biomedical Science, BK21 FOUR Program in Biomedical Science and Engineering, Inha University College of Medicine | Korea, Republic of | P-T03-0290 | |
| 208 | PS03-012 | October 5-6 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | An organ-on-a-chip approach for efficient phage display biopanning under physiological conditions | Jeong-Won Choi | Ulsan National Institute of Science and Technology | Korea, Republic of | E-T03-0311 | |
| 209 | PS03-013 | October 5-6 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | Fabrication of dual-drugs loading liposomes stimulated by physical activation | Sujeong Lee | CHA University | Korea, Republic of | P-T03-0342 | |
| 210 | PS03-014 | October 7-8 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | Regulation of cell membrane permeability and photo-processing DNP's behavior for LED-mediated gene delivery | Cho Hui Bang | CHA University | Korea, Republic of | P-T03-0348 | |
| 211 | PS03-015 | October 7-8 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | Hydroxytyrosol: In vitro study on its feasibility and efficacy in attenuating intimal hyperplasia progression | Ubashini Vijakumaran | Center of Tissue Engineering and Regenerative Medicine, Universiti Kebangsaan Malaysia Medical Centre, Kuala Lumpur, Malaysia | Malaysia | O-T03-0412 | |
| 212 | PS03-016 | October 7-8 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | Adeno-associated viral vector delivery system for the regeneration of hypoxia ischemic encephalopathy injured brain | Zheng Rong Lau | Yonsei University | Korea, Republic of | P-T03-0450 | |
| 213 | PS03-017 | October 7-8 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | Enzyme-mediated oxygen releasing polyphenol particles for ischemia treatment | Jin-Woo Hong | Dong-A University | Korea, Republic of | P-T03-0495 | |
| 214 | PS03-018 | October 7-8 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | Disturbed flow-targeting nanovesicles for early theragnosis of atherosclerosis | Seong-Jun Kang | Chung-Ang University | Korea, Republic of | P-T03-0518 | |
| 215 | PS03-019 | October 7-8 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | 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 | Korea, Republic of | P-T03-0541 | |
| 216 | PS03-020 | October 7-8 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | Anti-inflammatory efficacy of metformin-encapsulated PLGA | Dae Kyu Kim | Department of Biochemistry and Biomimetics, Bowdoin College | USA | P-T03-0799 | |
| 217 | PS03-021 | October 7-8 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | Acoustic anticancer therapy using nanoparticle | Yong-Gyu Jeong | Gachon Advanced Institute For Health Sciences and Technology, GAIHST, Gachon University | Korea, Republic of | P-T03-0806 | |
| 218 | PS03-022 | October 7-8 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | Nano-corona anticancer strategy | Su Hyun Lim | Gachon Advanced Institute For Health Sciences and Technology, GAIHST, Gachon University | Korea, Republic of | P-T03-0828 | |
| 219 | PS03-023 | October 7-8 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | Differential expression of peripheral blood and synovial fluid-derived exosomal-miRNAs in osteoarthritis | Hwa Yu Lai | Universiti Malaya | Malaysia | E-T03-0879 | Withdraw |
| 220 | PS03-024 | October 7-8 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | PTH and novel PTH analog for osseointegration and bone regeneration in ovariectomized beagle model | Jinwoo Kim | Ewha Womans University | Korea, Republic of | P-T03-0949 | |
| 221 | PS03-025 | October 7-8 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | Long-term anti-inflammatory effects of injectable celecoxib nanoparticle hydrogels for achilles tendon regeneration | Jun Kim | Center for Biomaterials, Biomedical Research Institute, Korea Institute of Science and Technology, Seoul, 02792, Republic of Korea; Division of Bio-Medical Science and Technology, KIST | Korea, Republic of | P-T03-0991 | |
| 222 | PS03-026 | October 7-8 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | Neuroprotective potential of phospholipase A2 against oxidative stress-induced toxicity in neuronal cell | Nur Atiqah Haizum Abdullah | Jeffrey Cheah School of Medicine and Health Sciences, Monash University Malaysia, Selangor, Malaysia & Centre of Tissue Engineering and Regenerative Medicine, Faculty of Medicine, The National Biobanks Innovation Centre, Biodiscovery Institute, School of Life Sciences, University of Nottingham, Regenerative Medicine and Cellular Therapy, School of Pharmacy, University of Nottingham | Malaysia | P-T03-1020 | |
| 223 | PS03-027 | October 7-8 | T03-Delivery systems (drug, biomolecules, active ingredient, etc.) | Inhibition of Pseudomonas biofilm causing osteomyelitis by the dual action of antibiotics and QSI contained in a HA/b-TCP porous bone granule (BG) system | Md Anirban Jyoti | | United Kingdom | P-T03-1080 | |
| 224 | PS04-002 | October 5-6 | T04-Stem cell engineering (cell therapy, developmental biology, etc.) | TIMP1 enhances survival of transplanted adult stem cell spheroids in murine critical limb ischemia model | Jung-Kyun Choi | KIST (Korea Institute of Science and Technology), (UST University of Science and Technology) | Korea, Republic of | P-T04-0044 | |
| 225 | PS04-003 | October 5-6 | T04-Stem cell engineering (cell therapy, developmental biology, etc.) | Development of recombinant transcription factor proteins for direct conversion of human dermal fibroblasts into osteoblasts | Manho Kim | Department of Biomedical Science, Kangwon National University, Chuncheon-si, Republic of Korea | Korea, Republic of | P-T04-0080 | |
| 226 | PS04-004 | October 5-6 | T04-Stem cell engineering (cell therapy, developmental biology, etc.) | 3D spheroids of mesenchymal stem cells attenuate neuropathic pain mediated by chronic constriction injury in mice | Nayeon Lee | Department of Physiology, School of Medicine, Pusan National University | Korea, Republic of | P-T04-0094 | |
| 227 | PS04-005 | October 5-6 | T04-Stem cell engineering (cell therapy, developmental biology, etc.) | Glioblastoma recurrence by neurotransmitters from abnormal neuronal firing via electrical stimulation | Ji Yeon Lee | Korea Advanced Institute of Science and Technology (KAIST) | Korea, Republic of | P-T04-0110 | |
| 228 | PS04-006 | October 5-6 | T04-Stem cell engineering (cell therapy, developmental biology, etc.) | Identification of mesenchymal stem cell-specific surface markers | An Nguyen-Thuy Tran | Department of Otorhinolaryngology-Head and Neck Surgery, College of Medicine, Ewha Womans University | Korea, Republic of | P-T04-0242 | |
| 229 | PS04-007 | October 5-6 | T04-Stem cell engineering (cell therapy, developmental biology, etc.) | Prevention of diet-induced obesity by adipose tissue browning using extracellular vesicles from stem cells during beige adipogenic differentiation | YEEUN YUN | Hanyang Univ. | Korea, Republic of | P-T04-0281 | |
| 230 | PS04-008 | October 5-6 | T04-Stem cell engineering (cell therapy, developmental biology, etc.) | Human neural progenitor cell differentiation into spiral ganglion neurons for sensorineural hearing loss | Nathaniel Carpena | Dankook University | Korea, Republic of | E-T04-0296 | |
| 231 | PS04-009 | October 5-6 | T04-Stem cell engineering (cell therapy, developmental biology, etc.) | Nanofibrillar scaffold improves 3D culture of induced pluripotency stem cells | Jinhee Park | Department of Biomedical Science, Kangwon National University, Chuncheon-si, Republic of Korea | Korea, Republic of | P-T04-0299 | Withdraw |
| 232 | PS04-010 | October 5-6 | T04-Stem cell engineering (cell therapy, developmental biology, etc.) | 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 College of Medicine | Korea, Republic of | P-T04-0302 | |
| 233 | PS04-011 | October 5-6 | T04-Stem cell engineering (cell therapy, developmental biology, etc.) | Blood outgrowth endothelial cells (BOECs) in re-endothelialization of human saphenous veins (hSV): An ex vivo model | Atiqah Haron | UKM | Malaysia | P-T04-0416 | |
| 234 | PS04-012 | October 5-6 | T04-Stem cell engineering (cell therapy, developmental biology, etc.) | Mesenchymal stem cells can promote the healing of the ocular surface by corneal epithelial cell regeneration in the alkali burn model of the rabbit | Jin Kim | Department of Ophthalmology, Asan Medical Center, University of Ulsan College of Medicine | Korea, Republic of | P-T04-0420 | |
| 235 | PS04-013 | October 5-6 | T04-Stem cell engineering (cell therapy, developmental biology, etc.) | Designing engineered stem cells hybrid spheroids for inflammatory disease | Dinesh Chaudhary | Department of Precision Medicine, School of Medicine, Sungkyunkwan University | Korea, Republic of | P-T04-0435 | |
| 236 | PS04-014 | October 7-8 | T04-Stem cell engineering (cell therapy, developmental biology, etc.) | Alginate encapsulation of 3D cultured mesenchymal stem cell spheroids for intraperitoneal injection in DSS-induced murine chronic colitis | Junhyeung Park | Sungkyunkwan University | Korea, Republic of | P-T04-0460 | |
| 237 | PS04-015 | October 7-8 | T04-Stem cell engineering (cell therapy, developmental biology, etc.) | Donor-dependent skeletal muscle differentiation mechanism of tonsil-derived mesenchymal stem cells | Min Ji Lee | Department of Otorhinolaryngology-Head and Neck Surgery, College of Medicine, Ewha Womans University, 1071 Anyangcheon-ro, Yangcheon-gu, Seoul 07985 | Korea, Republic of | P-T04-0467 | |
| 238 | PS04-016 | October 7-8 | T04-Stem cell engineering (cell therapy, developmental biology, etc.) | Generation of functional airway epithelial cells from human tonsil-derived mesenchymal stem cells by mimicking stepwise differentiation | Ha Yeong Kim | Ewha Womans University | Korea, Republic of | P-T04-0504 | |
| 239 | PS04-017 | October 7-8 | T04-Stem cell engineering (cell therapy, developmental biology, etc.) | Optimization of in vitro culture conditions to maintain hepatic stellate cell in quiescence | Ya Gong | University of Tokyo, Department of Bioengineering | Japan | P-T04-0597 | |
| 240 | PS04-019 | October 7-8 | T04-Stem cell engineering (cell therapy, developmental biology, etc.) | Salivary gland organoids as therapeutic models for radiation-induced xerostomia | Seong Gyeong Jeon | Department of Microbiology, CHA University School of Medicine, Seongnam, Republic of Korea. | Korea, Republic of | E-T04-0756 | |
| 241 | PS04-020 | October 7-8 | T04-Stem cell engineering (cell therapy, developmental biology, etc.) | Synthesis of polystyrene nanoplastics degraded forms and their effect on stem cell | Hyun Su Park | School of Chemical Engineering, Sungkyunkwan University, Suwon 16419, Republic of Korea | Korea, Republic of | P-T04-0776 | |
| 242 | PS04-021 | October 7-8 | T04-Stem cell engineering (cell therapy, developmental biology, etc.) | Development of a stem cell spheroid-laden patch with high retention at skin wound site | Dong-Hyun Lee | School of Chemical Engineering, Sungkyunkwan University | Korea, Republic of | P-T04-0819 | |
| 243 | PS04-022 | October 7-8 | T04-Stem cell engineering (cell therapy, developmental biology, etc.) | Study for region specific differentiation programme through distinct transcriptome of mouse small intestinal epithelial stem cells | Hoseok Ryu | Department of Microbiology, CHA University School of Medicine, Seongnam 13488, Korea | Korea, Republic of | E-T04-0869 | |
| 244 | PS04-023 | October 7-8 | T04-Stem cell engineering (cell therapy, developmental biology, etc.) | Regulation of head and neck squamous cell carcinoma migration and invasion behaviors by mild reduction of cell surface | Laurensia Danis Anggradita | Soonchunhyang Institute of Medi-Bio Science (SIMS), Soonchunhyang University | Korea, Republic of | O-T04-0871 | |
| 245 | PS04-024 | October 7-8 | T04-Stem cell engineering (cell therapy, developmental biology, etc.) | Evaluation of the efficacy of SDF-1-based novel polypeptides by structure-based drug design in an acute myocardial infarction model | Kang-Gon Lee | Korea university | Korea, Republic of | P-T04-0969 | |
| 246 | PS04-025 | October 7-8 | T04-Stem cell engineering (cell therapy, developmental biology, etc.) | PINK1 deficiency induces adipogenic differentiation and suppresses osteogenic differentiation in mouse mesenchymal stem cells | HyunJeong Yeo | Cha University | Korea, Republic of | P-T04-1060 | |
| 247 | PS04-026 | October 7-8 | T04-Stem cell engineering (cell therapy, developmental biology, etc.) | Cartilage repair in temporomandibular joint osteoarthritis mediated by inflammatory cytokines-stimulated human umbilical cord stem cells via immunomodulating activation of M2 macrophages | Hyunjeong Kim | Biomedical Engineering Research Center, Asan Institute for Life Sciences | Korea, Republic of | P-T04-1079 | |
| 248 | PS05-001 | October 5-6 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Engineering hair follicle organoids through microenvironmental reprogramming | Tatsuto Kageyama | Kanagawa Institute and Industrial Science and Technology | Japan | O-T05-0032 | |
| 249 | PS05-002 | October 5-6 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Zika virus infection accelerates Alzheimer's disease phenotypes in brain organoids | Hee-Yeong Kim | Seoul National University | Korea, Republic of | P-T05-0093 | |
| 250 | PS05-003 | October 5-6 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Next-generation in vitro microfluidic devices for accelerating precision medicine and drug development | Jihoon Ko | Seoul National University | Korea, Republic of | E-T05-0100 | Withdraw |

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| | Presentation No. | Presentation Date | Topic | Title | Name | Affiliation | Country | | |
| 251 | PS05-004 | October 5-6 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Development of <i>in vitro</i> 3D unidirectional cerebral region circuit analytic platform by controlling the growth rate of neurites | Kyeong Seob Hwang | KIST | Korea, Republic of | P-T05-0119 | |
| 252 | PS05-005 | October 5-6 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Physiomimetic bioprinting of stem cell-derived human pancreatic islet-like cellular aggregates-vascular platform for studies of diabetic diseases | Myungji Kim | POSTECH | Korea, Republic of | O-T05-0120 | |
| 253 | PS05-006 | October 5-6 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Aging of the blood-brain barrier (BBB) via reactive oxygen species (ROS) stimulation | Eun U Seo | KIST | Korea, Republic of | P-T05-0124 | |
| 254 | PS05-007 | October 5-6 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Microrheological system for hepatic function enhancement of human liver organoids | Jae Hee Byeon | University of Ulsan | Korea, Republic of | P-T05-0153 | |
| 255 | PS05-008 | October 5-6 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | 3D microfluidic meningeal lymphatic vascular system to study age-related pathological effects of cerebrospinal fluid | Jiyeon Ryu | UNIST | Korea, Republic of | P-T05-0226 | |
| 256 | PS05-009 | October 5-6 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | A microphysiological system reproducing obesity-associated adipose tissue inflammation | Heejeong Yoon | UNIST | Korea, Republic of | P-T05-0227 | |
| 257 | PS05-010 | October 5-6 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Analysis of metastatic organotropism in breast cancer cells using a microphysiological systems | Heejeong Yoon | UNIST | Korea, Republic of | P-T05-0229 | |
| 258 | PS05-011 | October 5-6 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Generation of 3D innervated skeletal muscle mode | Eunseon Jeong | Yonsei Univ. | Korea, Republic of | P-T05-0233 | |
| 259 | PS05-013 | October 5-6 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Cortical-blood vessel assembloids exhibit Alzheimer's disease pathologies by activating glia after SARS-CoV-2 infection | Nam Gyo Kim | Seoul National University | Korea, Republic of | P-T05-0270 | |
| 260 | PS05-014 | October 5-6 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | 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 | Korea, Republic of | E-T05-0285 | |
| 261 | PS05-015 | October 5-6 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Endometrium organoid as an in vitro model for female reproductive diseases | Eunju Park | Yonsei University College of Medicine | Korea, Republic of | P-T05-0318 | |
| 262 | PS05-016 | October 5-6 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Development of functional hepatic organoids with liver-specific microenvironments | Su Kyeom Kim | Yonsei University | Korea, Republic of | P-T05-0347 | |
| 263 | PS05-017 | October 5-6 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Human stomach microphysiological system for modelling <i>Helicobacter Pylori</i> pathogenesis | Hye-Jin Jeong | Ulsan National Institute of Science and Technology | Korea, Republic of | P-T05-0353 | |
| 264 | PS05-018 | October 7-8 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Differentiation of vascularized functional liver organoids using transcription factors in iPSCs | Wijin Kim | Department of Biomedical Science, Kangwon National University, Chuncheon, Gangwon-do, 24341, Republic of Korea. | Korea, Republic of | P-T05-0356 | |
| 265 | PS05-019 | October 7-8 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Engineered heterochronic parabiosis in 3D microphysiological system | Yunki Lee | Emory University | USA | P-T05-0385 | |
| 266 | PS05-020 | October 7-8 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | 3D tumor angiogenesis models for effective anti-cancer treatment | Kim Hyelim | KIST | Korea, Republic of | P-T05-0397 | |
| 267 | PS05-021 | October 7-8 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | 3D bioprinting-based tissue assembly to generate multi-axially contracting engineered heart tissue | Dong Gyu Hwang | POSTECH | Korea, Republic of | O-T05-0419 | |
| 268 | PS05-022 | October 7-8 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Integrating the endosteal and perivascular compartments of the bone marrow niche in a microfluidic device | HO-YING WAN | Institute for Tissue Engineering and Regenerative Medicine, The Chinese University of Hong Kong | Hong Kong | E-T05-0431 | |
| 269 | PS05-023 | October 7-8 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Bone marrow on-a-chip for in vitro bone disease modeling with Osteo-Vascular biphasic niche | Jung Hun Kim | Korea National University of Transportation | Korea, Republic of | O-T05-0441 | |
| 270 | PS05-024 | October 7-8 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Spatial restriction of diffuse gastric cancer cells promotes cell softening and filopodia formation | Seung Won Oh | Department of Bio and Brain Engineering, KAIST | Korea, Republic of | P-T05-0461 | |
| 271 | PS05-025 | October 7-8 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Oscillatory shear stress-induced 3D lymphatic valvulogenesis model using lymphatic endothelial progenitor cells | Jiyeon Ryu | UNIST | Korea, Republic of | P-T05-0501 | Withdraw |
| 272 | PS05-026 | October 7-8 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Development of drug screening platform to mimic pancreas tumor microenvironment using decellularized extracellular matrix and pancreas organoids | Hanse Goh | Asan Medical Center | Korea, Republic of | E-T05-0516 | |
| 273 | PS05-027 | October 7-8 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Modeling pancreatic cancer with patient-derived organoids integrating cancer-associated fibroblasts | Go Yoon-Ha | Department of Microbiology, CHA University School of Medicine, Seongnam 13488, Korea | Korea, Republic of | E-T05-0609 | |
| 274 | PS05-028 | October 7-8 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Differentiation of human hair follicle stem cells into a vascularized hair bearing skin organoids | Hyein Lee | ORG Corp. | Korea, Republic of | P-T05-0677 | |
| 275 | PS05-029 | October 7-8 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Enhancing maturation of human vascularized cardiac organoids using a magnetic torque stimulation (MTS) system | TaeHoon Sin | Korea Univ | Korea, Republic of | P-T05-0685 | |
| 276 | PS05-030 | October 7-8 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Effect of direct oxygenation and coculture on primary hepatocytes & intestine epithelial cells cultured in stirrer-based microphysiological system (MPS) device | Dhimas Kumiawan | The University of Tokyo | Japan | E-T05-0691 | |
| 277 | PS05-031 | October 7-8 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | 3D multicellular cancer microenvironment platform supporting survival of acute myeloid leukemia (AML) in cultures | Hoi Lam Cheung | Tissue Engineering Laboratory, Department of Mechanical Engineering, The University of Hong Kong; Advanced Biomedical Instrumentation Centre, Hong Kong Science Park | Hong Kong | P-T05-0781 | |
| 278 | PS05-032 | October 7-8 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Generation of functional porcine and human thyroid organoid | Lee Jaeho | Department of Microbiology, CHA University School of Medicine, Seongnam 13488, Korea | Korea, Republic of | E-T05-0830 | |
| 279 | PS05-033 | October 7-8 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Developing a novel strategy to support in vitro self-renewal of patient-derived head and neck squamous carcinoma cells | Joohyun Kim | Soonchunhyang Institute of Medi-bio Science (SIMS), Soonchunhyang University, Republic of Korea | Korea, Republic of | O-T05-0880 | |
| 280 | PS05-034 | October 7-8 | T05-Organ-mimetic platforms (organoid, organ-on-a-chip, etc.) | Evaluation of the efficacy of perfusion culture for the construction of three-dimensional endometrial-like tissue | Kenshin Wakabayashi | Waseda University | Japan | P-T05-0921 | |