

# 2019 International Symposium & Fall Meeting of The Korean Society for Biomaterials

Sep. 19, 2019 (Thu.)		
Time	International conference room(400)	Auditorium(200)
08:30-09:30	Registration/Poster Installation	
09:30-10:00	Opening Ceremony	
	Chair : Dong Keun Han(CHA Univ.), Yong-Hee Kim(Hanyang Univ.)	
10:00-10:45	<b>Plenary Lecture 1 &amp; 2 (Eng.)</b> <b>[PL-1]</b> Hydrogel-based strategies to therapeutic applications <b>Ki Dong Park</b> (Ajou Univ., KOREA)	
10:45-11:30	<b>[PL-2]</b> Adding a dimension to oral nanomedicine <b>You Han Bae</b> (Univ. of UTAH, USA)	
11:30-12:40	Poster Presentation Session I	
12:40-14:00	KSBM General Meeting(12:05~) and Lunch	
14:00-15:40	<b>Session 1 : Perspectives of Drug Delivery System (Eng.)</b> Chair : Won Jong Kim(POSTECH), In Kyu Park(Chonnam Nat'l Univ. Medical School)	<b>Session 2 : Recent Advances in Biochip Technology</b> Chair : Chun Ho Kim(KGRAMS), Sung Yun Yang(Chungnam Nat'l Univ.)
	<b>[S1-KL-1]</b> 14:00-14:20 Targeting tumor microenvironment for overcoming drug resistance <b>Yongzhao Huang</b> (Shanghai Institute of Materia Medica, China)	<b>[S2-KL-1]</b> 14:00-14:20 Engineering in vitro biohybrid systems <b>Sung-Jin Park</b> (Emory Univ. School of Medicine, USA)
	<b>[S1-KL-2]</b> 14:20-14:40 Magnetic nanohybrids-mediated gene delivery of stem cells for cancer therapy <b>Chien-Wen Jeff Chang</b> (Nat'l Tsing Hua Univ., Taiwan)	<b>[S2-IL-1]</b> 14:20-14:40 Blood-brain barrier on a chip: A biomimicry of brain microvascular physiology and function <b>Hong Nam Kim</b> (KIST)
	<b>[S1-KL-3]</b> 14:40-15:00 Long-wavelength light-responsive nanoparticles for targeted drug delivery <b>Weiping Wang</b> (Univ. of Hongkong, Hongkong)	<b>[S2-IL-2]</b> 14:40-15:00 Microphysiological system based organoids culture <b>Gi Seok Jeong</b> (Asan Medical Center)
	<b>[S1-IL-1]</b> 15:00-15:20 Dynamic supraparticles for biomedical imaging and targeted therapy <b>Daishun Ling</b> (Zhejiang Univ., China)	<b>[S2-IL-3]</b> 15:00-15:20 Hydroporation: A next generation intracellular delivery method <b>Aram Chung</b> (Korea Univ.)
	<b>[S1-IL-2]</b> 15:20-15:40 Shape-memory surfaces for cell mechanobiology <b>Mitsuhiro Ebara</b> (NIMS, Japan)	<b>[S2-CL-1]</b> 15:20-15:40 Why animal-derived biomaterials should be tested for virus clearance <b>Young Bong Kim</b> (KR Biotech)
15:40-16:00	Coffee Break	
16:00-17:40	<b>Session 3 : Tissue Engineering &amp; Bio-printing Techniques (Eng.)</b> Chair : Oh Hyeong Kwon(Kumoh Nat'l Institute of Technology), Kang Moo Huh(Chungnam Nat'l Univ.)	<b>Session 4 : Biomaterials to Reconstruct Intra-oral Hard Tissues</b> Chair : Jeong Koo Kim(Inje Univ.), Hui-Suk Yun(KIMS)
	<b>[S3-KL-1]</b> 16:00-16:20 Electrospun 3D nanofibers scaffolds for tissue engineering <b>Xiumei MO</b> (Donghua Univ., China)	<b>[S4-IL-1]</b> 16:00-16:20 Bioactive peptide discovery and its dental application <b>Yoon Jeong Park</b> (Seoul Nat'l Univ.)
	<b>[S3-KL-2]</b> 16:20-16:40 Preparation of porous scaffolds and their applications for tissue engineering <b>Guoping Chen</b> (NIMS, Japan)	<b>[S4-IL-2]</b> 16:20-16:40 Next endeavors for tooth biology <b>Han Sung Jung</b> (Yonsei Univ.)
	<b>[S3-IL-1]</b> 16:40-17:00 Multi-head 3D bio-printing system for artificial organ fabrication <b>Junhee Lee</b> (KIMM)	<b>[S4-IL-3]</b> 16:40-17:00 Non biomaterial based technology in tooth regeneration <b>Eun-Jung Kim</b> (Yonsei Univ.)
	<b>[S3-IL-2]</b> 17:00-17:20 Decellularized extracellular matrix as a bioink for engineering human tissues <b>Jinah Jang</b> (POSTECH)	<b>[S4-IL-4]</b> 17:00-17:20 Computational simulation of bio-mechanical behavior of oral reconstruction materials by finite element analysis <b>Ki-Sun Lee</b> (Korea Univ. Ansan Hospital)
	<b>[S3-IL-3]</b> 17:20-17:40 Inkjet cell printing and its applications to tissue engineering <b>Sungjune Jung</b> (POSTECH)	<b>[S4-IL-5]</b> 17:20-17:40 Novel anti-biofouling dental biomaterials by incorporating zwitterionic material to prevent the formation of multi-species biofilm <b>Sung-Hwan Choi</b> (Yonsei Univ.)
17:40-20:00	Awarding Ceremony (Young Scientist Award) and Reception	

Sep. 20, 2019 (Fri.)			
Time	International conference room(400)	Auditorium(200)	Lecture room(100)
09:00-09:40	Registration/Poster Installation		
09:40-11:20	<b>Session 5 : Nanobio Platform for Therapeutic Biomaterials</b> Chair : Byeongmoon Jeong(Ewha Womans Univ.), Ji Hoon Jeong(Sungkyunkwan Univ.)	<b>Special Session 6 : Future of Biomaterials and Reproductive Medicine</b> Chair : Keun-Hong Park(CHA Univ.)	
	<b>[S5-KL-1]</b> 9:40-10:00 Carrier-enhanced anticancer efficacy of green tea-based micellar nanocomplex beyond tumor-targeted delivery <b>Joo Eun Chung</b> (IBN, Singapore)	<b>[S6-IL-1]</b> 9:40-10:05 Biomaterials for reproductive medicine <b>Youngsok Choi</b> (Konkuk Univ.)	
	<b>[S5-IL-1]</b> 10:00-10:20 Carrier-free prodrug nanoparticles for cancer targeting therapy <b>Kwangmeyung Kim</b> (KIST)	<b>[S6-IL-2]</b> 10:05-10:30 Application of perivascular stem cells to restore impaired endometrium in a murine model of Asherman's Syndrome <b>Haengseok Song</b> (CHA Univ.)	
	<b>[S5-IL-2]</b> 10:20-10:40 Surface-engineered exosomes for therapeutic applications <b>Jae Hyung Park</b> (Sungkyunkwan Univ.)	<b>[S6-IL-3]</b> 10:30-10:55 Multi-functional nanoparticles for genetic engineering and bio-imaging of natural killer (NK) cell therapeutics <b>Kyung-Soon Park</b> (CHA Univ.)	
	<b>[S5-IL-3]</b> 10:40-11:00 Nanomaterial-based cancer immunotherapy <b>Byung-Soo Kim</b> (Seoul Nat'l Univ.)	<b>[S6-IL-4]</b> 10:55-11:20 Combination of nanoparticle adjuvant with local tumor ablation for effective cancer immunotherapy <b>Woo-Ram Park</b> (CHA Univ.)	
11:20-12:40	Poster Presentation Session II		
12:40-14:00	Lunch		
14:00-15:40	<b>Session 7 : Next Generation Stem Cell Therapy</b> Chair : Soo-Hong Lee(Dongguk Univ.), Kwideok Park(KIST)	<b>Session 8 : Future Convergence Technologies Based on Biomaterials</b> Chair : Jong-Chul Park(Yonsei Univ.), Jinku Kim(Hongik Univ.)	<b>Session 9 : Student Oral Competition I</b> Chair : Kyung Min Park(Incheon Nat'l Univ.), Suk Ho Bhang(Sungkyunkwan Univ.)
	<b>[S7-IL-1]</b> 14:00-14:20 Treatment strategy of pediatric brain tumor targeting brain tumor initiating cells <b>Seung Ah Choi</b> (Seoul Nat'l Univ. College of Medicine)	<b>[S8-IL-1]</b> 14:00-14:20 Cellular mechanobiology for medical applications <b>Dong-Hwee Kim</b> (Korea Univ.)	<b>[SOC-1]</b> Bio-inspired hyaluronic acid hydrogel for multifunctional hemostatic adhesives using a blood coagulating mediator <b>SooHwan An</b> (Yonsei Univ.)
	<b>[S7-IL-2]</b> 14:20-14:40 New applications using non-thermal atmospheric pressure biocompatible plasma (NBP) on stem cells <b>Ihn Han</b> (Kwangwoon Univ.)	<b>[S8-IL-2]</b> 14:20-14:40 Non-invasive transdermal nanomedicine using hyaluronate <b>Ki Su Kim</b> (Pusan Nat'l Univ.)	<b>[SOC-2]</b> Magnetically-guidable sticky microparticles for site-specific and prolonged drug delivery <b>Hyun sun Choi</b> (POSTECH)
	<b>[S7-IL-3]</b> 14:40-15:00 Anti-oxidant activity reinforced reduced graphene oxide/alginate microgels: Mesenchymal stem cell encapsulation and regeneration of infarcted heart <b>Jae Young Lee</b> (GIST)	<b>[S8-IL-3]</b> 14:40-15:00 Multi-material fiber interfaces for neural control and tissue regeneration <b>Seongjun Park</b> (KAIST)	<b>[SOC-3]</b> Enhanced blood compatibility of cardiovascular devices by simultaneous co-immobilization of heparin and nitric oxide (NO)-generating catalyst <b>Dieu Linh Tran</b> (Ajou Univ.)
	<b>[S7-IL-4]</b> 15:00-15:20 Histone modifications, enhancers, and neural stem cells: Activation of neuronal gene expression by JMID3 is required for postnatal and adult brain neurogenesis <b>Dae Hwi Park</b> (GC LabCell)	<b>[S8-IL-4]</b> 15:00-15:20 Multiplexed super-resolution imaging of biological specimens <b>Jae-Byum Chang</b> (KAIST)	<b>[SOC-4]</b> Robust docking nanoparticle with protein corona shield (PCS) as the target delivery system <b>Jun Yong Oh</b> (UNIST)
15:40-16:00	Coffee Break		
16:00-17:40	<b>Session 10 : Restoration and Rejuvenation of the Skin and Soft Tissue</b> Chair : Seong Keun Kwon(Seoul Nat'l Univ. Hospital), Sei Kwang Hahn(POSTECH)	<b>Session 11 : Design of Medical Device: From Bench to Clinics</b> Chair : Jae-Jun Song(Korea Univ. Guro Hospital), Su-Geun Yang(Inha Univ.)	<b>Session 12 : Student Oral Competition II</b> Chair : Chun Gwon Park(Sungkyunkwan Univ.), Tae-Hyung Kim(Chung-Ang Univ.)
	<b>[S10-IL-1]</b> 16:00-16:20 Perspective on cell delivery in fat grafting enriched with adipose-derived stem cells <b>Ki Yong Hong</b> (Dongguk Univ. School of Medicine)	<b>[S11-IL-1]</b> 16:00-16:20 Versatile approaches of unconventional lithography in biomedical applications <b>Suck Won Hong</b> (Pusan Nat'l Univ.)	<b>[WISET-KSBM-3]</b> Overcoming the drug resistance through chemotherapy and photodynamic therapy <b>Doyeon Kim</b> (Sogang Univ.)
	<b>[S10-IL-2]</b> 16:20-16:40 Anti-gravity rejuvenation treatment for face with PDO thread lifting <b>Jeongmok Cho</b> (BANOBAGI Plastic Surgery Clinic)	<b>[S11-IL-2]</b> 16:20-16:40 New conceptual design of cardiovascular stent and <i>In vitro-In vivo</i> correlation study <b>Sugeun Yang</b> (Inha Univ.)	<b>[WISET-KSBM-4]</b> Endoscopic photodynamic therapy with cancer targeting aptamer-modified photosensitizer <b>Jiyoung Kim</b> (The Catholic Univ.)
	<b>[S10-IL-3]</b> 16:40-17:00 Associative nanoemulsions for advanced cosmetic formulations <b>Jin Woong Kim</b> (Sungkyunkwan Univ.)	<b>[S11-IL-3]</b> 16:40-17:00 Magnetically actuated microrobots as a platform for stem cell transplantation <b>Hongsoo Choi</b> (DGIST)	<b>[WISET-KSBM-5]</b> Brain surface-mimicked collagen-based membrane via ribose-induced crosslinking and self-assembly <b>Hyo Min Kim</b> (KAIST)
	<b>[S10-IL-4]</b> 17:00-17:20 Pathomechanism of permanent loss of hair regeneration after chemotherapy : Priming mobilization and depletion of hair follicle stem cells <b>Ohsang Kwon</b> (Seoul Nat'l Univ. College of Medicine)	<b>[S11-IL-4]</b> 17:00-17:20 Nanostructured and multi-functional biocomposites for implantable, biocompatible, and biodegradable electronics <b>Bong Sup Shim</b> (Inha Univ.)	<b>[SOC-10]</b> Internalization of chitosan-glycyrrhizin coated superparamagnetic iron oxide nanoparticles into stem cell spheroids for immune modulation and magnetic guidance <b>Sang Joon Lee</b> (Hanyang Univ.)
17:40-18:00	Awarding Ceremony (Oral Competition Award & Poster Presentation Session Award) and Closing Remark		