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	Opening Ceremony		
	Plenary Lecture 1 & 2 (Eng.)	Chair : Dong Keun Han(CHA Univ.), Yong-Hee Kim(Hanyang Univ.		
10:00-10:45	[PL-1] Hydrogel-based strategies to therapeutic applications			
	Ki Dong Park(A)ou Univ., KOR			
10:45-11:30	[PL-2] Adding a dimension to oral nanomedicine You Han Bae(Univ. of UTAH, USA)			
11:30-12:40				
12:40-14:00				
	Session 1 : Perspectives of Drug Delivery System (Eng.) Chair : Won Jong Kim(POSTECH), In Kyu Park(Chonnam Nat'l Univ. Medical School)	Session 2 : Recent Advances in Biochip Technology Chair : Chun Ho Kim(KIRAMS), Sung Yun Yang(Chungnam Nat'l Univ.		
	[S1-KL-1] 14:00-14:20	[S2-KL-1] 14:00-14:20		
	Targeting tumor microenvironment for overcoming drug resistance	Engineering in vitro biohybrid systems		
	Yongzhuo Huang(Shanghai Institute of Materia Medica, China)	Sung-Jin Park(Emory Univ. School of Medicine, USA)		
	[S1-KL-2] 14:20-14:40	[S2-IL-1] 14:20-14:40		
	Magnetic nanohybrids-mediated gene delivery of stem cells for cancer therapy	Blood-brain barrier on a chip: A biomimicry of brain microvascular physiology and function		
	Chien-Wen Jeff Chang(Nat'l Tsing Hua Univ., Taiwan)	Hong Nam Kim(KIST)		
14:00-15:40	[S1-KL-3] 14:40-15:00	[S2-IL-2] 14:40-15:00		
	Long-wavelength light-responsive nanoparticles for targeted drug delivery	Microphysiological system based organoids culture		
	Weiping Wang(Univ. of Hongkong, Hongkong)	Gi Seok Jeong(Asan Medical Center)		
	[S1-IL-1] 15:00-15:20	[S2-IL-3] 15:00-15:20		
	Dynamic supraparticles for biomedical imaging and targeted therapy	Hydroporation: A next generation intracellular delivery method		
	Daishun Ling(Zhejiang Univ., China)	Aram Chung(Korea Univ.)		
	[\$1-1L-2] 15:20-15:40	[S2-CL-1] 15:20-15:40		
	Shape-memory surfaces for cell mechanobiology	Why animal-derived biomaterials should be tested for virus clearance		
	Mitsuhiro Ebara(NIMS, Japan)	Young Bong Kim(KR Biotech)		
15:40-16:00	Coffee Break			
	Session 3 : Tissue Engineering & Bio-printing Techniques (Eng.)	Session 4 : Biomaterials to Reconstruct Intra-oral Hard Tissues		
	Chair : Oh Hyeong Kwon(Kumoh Nat'l Institute of Technology), Kang Moo Huh(Chungnam Nat'l Univ.)	Chair : Jeong Koo Kim(Inje Univ.), Hui-Suk Yun(KIMS		
	[S3-KL-1] 16:00-16:20			
		[S4-IL-1] 16:00-16:20		
	Electrospun 3D nanofibers scaffolds for tissue engineering	[S4-IL-1] 16:00-16:20 Bioactive peptide discovery and its dental application		
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Time	International conference room(400)	Sep. 20, 2019 (Fri.) Auditorium(200)	Lecture room(100)
09:00-09:40	Session 5 : Nanobio Platform for Therapeutic Biomaterials	Registration/Poster Installation Special Session 6 : Future of Biomaterials and Reproductive	
	Chair : Byeongmoon Jeong(Ewha Womans Univ.), Ji Hoon Jeong(Sungkyunkwan Univ.) [\$5-KL-1] 9:40-10:00	Medicine Chair: Keun-Hong Park(CHA Univ.) [S6-IL-1] 9:40-10:05	
	Carrier-enhanced anticancer efficacy of green tea-based micellar nanocomplex beyond tumor-targeted delivery Joo Eun Chung(IBN, Singapore)	Biomaterials for reproductive medicine Youngsok Choi(Konkuk Univ.) [S6-IL-2] 10:05-10:30	
	[55-IL-1] 10:00-10:20 Carrier-free prodrug nanoparticles for cancer targeting therapy	Application of perivascular stem cells to restore impaired endometrium in a murine model of Asherman's Syndrome Haengseok Song (CHA Univ.)	
09:40-11:20	Kwangmeyung Kim(KIST) [55-IL-2] 10:20-10:40 Surface-engineered exosomes for therapeutic applications Jae Hyung Park(Sungkyunkwan Univ.)	[S6-IL-3] 10:30-10:55 Multi-functional nanoparticles for genetic engineering and bio-imaging of natural killer (NK) cell therapeutics Kyung-Soon Park(CHA Univ.)	
	[S5-IL-3] 10:40-11:00 Nanomaterial-based cancer immunotherapy Byung-Soo Kim(Seoul Nat'l Univ.)	[S6-IL-4] 10:55-11:20 Combination of nanoparticle adjuvant with local tumor ablation for effective cancer immunotherapy Woo-Ram Park(CHA Univ.)	
11.20.12.10	[S5-IL-4] 11:00-11:20 Cloaking nanoparticles with supramolecularly constructed protein corona for targeted drug delivery Ja-Hyoung Ryu(UNIST)		
11:20-12:40 12:40-14:00		Poster Presentation Session II Lunch	
	Session 7 : Next Generation Stem Cell Therapy Chair : Soo-Hong Lee(Dongguk Univ.), Kwideok Park(KIST)	Session 8 : Future Convergence Technologies Based on Biomaterials Chair : Jong-Chul Park(Yonsei Univ.), Jinku Kim(Hongik Univ.)	Chair : Kyung Min Park(Incheon Nat'l Univ.), Suk Ho Bhang(Sungkyunkwan Univ.)
	[S7-IL-1] 14:00-14:20 Treatment strategy of pediatric brain tumor targeting brain tumor initiating cells Seung Ah Choi(Seoul Nat'l Univ. College of Medicine)	[S8-IL-1] 14:00-14:20 Cellular mechanobiology for medical applications Dong-Hwee Kim(Korea Univ.) [S8-IL-2] 14:20-14:40	[SOC-1] Bio-inspired hyaluronic acid hydrogel for multifunctional hemostatic adhesives using a blood coagulating mediator Soohwan An(Yonsei Univ.) [SOC-2] Magnetically-guidable sticky microparticles for site-specific and prolonged drug delivery
	[S7-IL-2] 14:20-14:40 New applications using non-thermal atmospheric pressure biocompatible plasma (NBP) on stem cells Ihn Han(Kwangwoon Univ.)	Non-invasive transdermal nanomedicine using hyaluronate Ki Su Kim(Pusan Nat'l Univ.) [S8-IL-3] 14:40-15:00	Hyun sun Choi(POSTECH) [SOC-3] Enhanced blood compatibility of cardiovascular devices by simultaneous co-immobilization of heparin and nitric oxide (NO)-generating catalyst Dieu Linh Tran(Ajou Univ.)
	[S7-IL-3] 14:40-15:00 Anti-oxidant activity reinforced reduced graphene oxide/alginate microgels: Mesenchymal stem cell encapsulation and regeneration of infarcted heart	Multi-material fiber interfaces for neural control and tissue regeneration Seongjun Park(KAIST) [58-IL-4] 15:00-15:20	[SOC-4] Robust clocking nanoparticle with protein corona shield (PCS) as the target delivery system Jun Yong Oh(UNIST) [SOC-5] Photodynamic-cold atmospheric plasma dual therapy using polymeric nanoparticles for cervical cancer treatment
14:00-15:40	Jae Young Lee(GIST) [S7-IL-4] 15:00-15:20 Histone modifications, enhancers, and neural stem cells:	Multiplexed super-resolution imaging of biological specimens Jae-Byum Chang(KAIST)	Ji-Hui Ha(Daegu Catholic Unix.) [SOC-6] The influence of PEG chain length on colloidal stability of mPEGylated polycation based coacersome for therapeutic protein delivery Heejung Jo[Incheon Nat'l Unix.)
	Activation of neuronal gene expression by JMJD3 is required for postnatal and adult brain neurogenesis Dae Hwi Park(GC LabCell)	[S8-IL-5] 15:20-15:40 Plant Nanobionics: The Creation of the interface between plants and nanomaterials Seonyeong Kwak(Seoul Nat'l Univ.)	[SOC-7] Hydrogel crosslinking-programmed release of nitric oxide regulates angiogenesis of human mesenchymal stem cells Hye-Seon Kim(Yonsei Univ.) [SOC-8] Overcoming limitations of microbubbles through fusion with exosome for longer diagnosis and the enhancing drug
	[S7-IL-5] 15:20-15:40		delivery efficiency
	Human iPSC culture via extension of the feeding cycle and inhibition of apoptosis Hee Ho Park(Kangwon Nat'l Univ.)		Yongho Jang/Sogang Univ.) [SOC-9] Inkjet-based 3D bioprinting: From cell-level manipulation to 3D microstructured tissue fabrication Ju An Park(POSTECH)
	inhibition of apoptosis		Yongho Jang(Sogang Univ.) [SOC-9] Inkjet-based 3D bioprinting: From cell-level manipulation to 3D microstructured tissue fabrication Ju An Park(POSTECH) [MSET-KSBM-1] Study of the surface functionalization of microfluidic systems for in-situ monitoring of cell culture and drug efficacy Da Reum Kim(Chungnam Nat'l Univ.) [MSET-KSBM-2] Synthesis and characterization of gallic acid conjugated glycol chitosan derivatives for tissue adhesive
	inhibition of apoptosis		Yongho Jang(Sogang Univ.) [SOC-9] Inkjet-based 3D bioprinting: From cell-level manipulation to 3D microstructured tissue fabrication Ju An Park(POSTECH) [WISET-KSBM-1] Study of the surface functionalization of microfluidic systems for in-situ monitoring of cell culture and drug efficacy Da Reum Kim(Chungnam Nat'l Univ.) [WISET-KSBM-2] Synthesis and characterization of gallic acid
15:40-16:00	inhibition of apoptosis Hee Ho Park(Kangwon Nat'l Univ.) Session 10: Restoration and Rejuvenation of the Skin and Soft Tissue	Coffee Break Session 11 : Design of Medical Device: From Bench to Clinics	Yongho Jang/Sogang Univ.) [SOC-9] Inkjet-based 3D bioprinting: From cell-level manipulation to 3D microstructured tissue fabrication Ju An Park((POSTECH) [WISET-KSBM-1] Study of the surface functionalization of microfluidic systems for in-situ monitoring of cell culture and drug efficacy Da Reum Kim(Chungnam Nat'l Univ.) [WISET-KSBM-2] Synthesis and characterization of gallic acid conjugated glycol chitosan derivatives for tissue adhesive applications
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15:40-16:00	inhibition of apoptosis Hee Ho Park(Kangwon Nat'l Univ.) Session 10: Restoration and Rejuvenation of the Skin and Soft Tissue Chair: Seong Keun Kwon(Seoul Nat'l Univ. Hospital), Sei Kwang Hahn(POSTECH) [S10-II-1] 16:00-16:20 Perspective on cell delivery in fat grafting enriched with adipose-derived stem cells	Session 11 : Design of Medical Device: From Bench to Clinics Chair : Jae-Jun Song(Korea Univ. Guro Hospital), Su-Geun Yang(Inha Univ.) [S11-II-1] 16:00-16:20 Versatile approaches of unconventional lithography in biomedical applications	Yongho Jang(Sogang Univ.) [SOC-9] Inkjet-based 3D bioprinting: From cell-level manipulation to 3D microstructured tissue fabrication Ju An Park((POSTECH) [MISET-KSBM-1] Study of the surface functionalization of microfluidic systems for in-situ monitoring of cell culture and drug efficacy Da Reum Kim(Chungnam Nat'l Univ.) [MISET-KSBM-2] Synthesis and characterization of gallic acid conjugated glycol chitosan derivatives for tissue adhesive applications Seul Gi Park(Chungnam Nat'l Univ.) Session 12: Student Oral Competition II Chair: Chun Gwon Park(Sungkyunkwan Univ.), Tae-Hyung Kim(Chung-Ang Univ.) [MISET-KSBM-3] Overcoming the drug resistance through chemotherapy and photodynamic therapy Doyen Kim(Sogang Univ.) [MISET-KSBM-4] Endoscopic photodynamic therapy with cancer targeting aptamer-modified photosensitizer Jiyoung Kim(The Catholic Univ.) [MISET-KSBM-5] Brain surface-mimicked collagen-based membrane via ribose-induced crosslinking and self-assembly Hyo Min Kim(KAIST)
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