

IL-05

IL-07

therapy

with structural integrity

16:25~

16:50

17:15

17.15~

17:40

20th Anniversary International Symposium of the Korean Society for Biomaterials 2016

Johnson Auditorium (Administration Building)

08:30~ 09:00	Registration
09:00~ 09:20	Opening Ceremony
Plenary Lecture Chair: Dong Keun Han (K	
09:20~ 10:00	PL-01 Driving stem cell behaviours using directive biomaterials for controlled delivery and tissue genesis Justin J. Cooper-White (Univ. of Queensland, AUSTRALIA)
Plenar	y Lecture Chair: Dong June Chung (Sungkyunkwan Univ.)
10:00~ 10:40	PL-02 In situ forming hydrogels; multiplayers in biomaterials-based therapy. Ki Dong Park (Ajou Univ.)
10:40~ 11:40	KSBM 20 th celebration Session
11:40~ 12:00	KSBM General Meeting
12:00~ 13:20	Lunch
Keynot	e Lecture Chair: Byeongmoon Jeong (Ewha Womans Univ.)
13:20~ 13:50	KL-01 PEG-b-PLA micelles and PLGA-b-PEG-b-PLGA sol-gels for multi-drug delivery Glen S. Kwon (Univ. of Wisconsin, USA)
13:50~ 14:20	KL-02 Carrier-free delivery of anti-cancer drugs Yoon Yeo (Purdue Univ., USA)
Sessio	n 2 : Biomechanics
	co-organized with Korean Society of Biomechanics nir: Bongju Kim (Seoul Nat'l Univ. Dental Hospital), Jeongseong Kim (Konyang Univ.)
14:20~ 14:45	IL-01 Formation and scattering of cellular aggregates Jennifer H. Shin (KAIST)
14:45~ 15:10	IL-02 Biomechanical approaches to study musculoskeletal injuries Choongsoo S. Shin (Sogang Univ.)
15:10~ 15:35	IL-03 Biomechanical issues in active safety system for crash prevention and occupant protection
	Dohyung Lim (Sejong Univ.)
15:50~ 16:00	Coffee Break
Session 4 : Tissue Engineering and Regeneration Medicine	
Chair	co-organized with Korean Tissue Engineering and Regenerative Medicine Society Sung Won Kim (Catholic Univ. College of Medicine), Hee Seok Yang (Dankook Univ.)
16:00~ 16:25	IL-04 Tonsil-derived mesenchymal stem cells for parathyroid regeneration Inho Jo (Ewha Womans Univ. College of Medicine)

3D integrated tissue and organ printing system to produce human body parts

Human nose derived cells (human nasal inferior turbinate derived

hNSCs) for tissue engineering and regenerative medicine

Banquet and Awarding Ceremony (Young Scientist Award)

mesenchymal stem cells. hTMSCs and human nasal septal chondrocytes.

Human fetal cartilage-derived progenitor cells (FCPCs) as a source of cell

Sang Jin Lee (Wake Forest School of Medicine, USA)

Sung Won Kim (Catholic Univ. College of Medicine)

Byung Hyune Choi (Inha Univ. College of Medicine)

	SOC
	SOC
15:00~ 15:10	Coffe
Session	n 3 : K
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Convention Hall (International Cooperation Building No.8)

08:30~ 09:00	Poster Installation	
11:40~	Poster Presentation Session	
13:00		Chair: Seung-Woo Cho(Yonsei Univ.)
Session	n 1 : Student Oral Competition	
	Chair: Chaeny	ung Cha (UNIST), Ja-Hyoung Ryu (UNIST)
	SOC-01	SOC-08
	Yu Bin Lee (Hanyang Univ.)	EunYoung Jeon (POSTECH)
	SOC-02	SOC-09
	Kanghee Cho (Yonsei Univ.)	Ho Sang Jung (KIMS)
	SOC-03	SOC-10
	Joon Woo Chon (Sungkyunkwan Univ.)	Mahmoud Amr Elnaggar (KIST)
13:00~	SOC-04	SOC-11
15:00	Sang Jin Lee (Kyung Hee Univ.)	
	SOC-05	SOC-12
	Jieung Baek (KAIST)	Yoon Jeong (Seoul Nat'l Univ.)
	SOC-06	SOC-13
	Min Sung Kim (Yonsei Univ.)	Thai Thanh Hoang Thi (Ajou Univ.)
	SOC-07	
45.00	Dong-Hee Kang (GIST)	
15:00~ 15:10	Coffee Break	
Session	n 3 : Korean and Chinese Young Scie	ntist Session
	Chair: Hojae Bae (Ko	onkuk Univ.), Hyejung Mok (Konkuk Univ.)
	YS-KC-01	

tro evaluation of the accuracy of 3D printed dental models Ji-Man Park (Seoul Nat'l Univ. Gwanak Dental Hospital)

vel platelet repelling polyphenolic surface and its micropattern for elet adhesion detection

Lulu Han (Dalian Univ. of Technology)

A polymeric solvent-free thermosponge nanoparticle platform for protein drug delivery

3D assembled nanofiber scaffolds for bone tissue engineering

Xuetao Shi (South China Univ. of Technology)

Oxygen-controllable hydrogel matrices for artificial cellular microenvironments 15:10~ Kyung Min Park (Incheon Nat'l Univ.)

YS-KC-06

An instructive naonfiber biomaterial and its application on bone regeneration Jianglin Wang (Huazhong Univ. of Science & Technology)

Injury-mediated vascular regeneration requires endothelial ER71/ETV2

Hierarchically aligned fibrin hydrogel for central nerve regeneration Xiumei Wang (Tsinghua Univ.)

Ex-vivo 3D tumor microenvironment for the study of cancer cell migration

and invasion

Min Hee Park (Korea Institute of Science and Technology)

A holistic approach to optimal nanomedicine delivery by surface charge modulation Yucai Wang (Univ. of Science & Technology of China)

16.50~ Coffee Break

Session 5: Korean and Japanese Young Scientist Session

Chair: Bong Joo Park (Kwangwoon Univ.), Dong Yun Lee (Hanyang Univ.)

Controlling cell fate in a joint knee for cartilage tissue regeneration

Development of fluorescence nanoprobes for over-1000nm near-infrared bioimaging

Masao Kamimura (Tokyo Univ. of Science)

A comparative study of the osteogenic potential of tauroursodeoxycholic acid (TUDCA) and rhBMP-2 in a mouse spinal fusion model

Byoung Ju Kim (CHA Univ.)

YS·KJ-04

18:00

17:00~

Evaluation of cell rolling phenotype on anti-SSEA-1 antibody immobilized microfluidic channel as a pluripotency marker

Akihisa Otaka (Nat'l Cerebral and Cardiovascular Center Research Institute)

YS·KJ-05

Hybrid nanomaterials for targeted drug delivery and photoacoustic theranosis Min Young Lee (Samsung Biomedical Research Institute)

Development of messenger RNA-loaded polyplex nanomicelle for the treatment of central nervous system diseases Satoshi Uchida (The Univ. of Tokyo)

Session 1 : Student Oral Competition 1 [7 minutes]
 Session 3 : Korean and Chinese Young Scientist Session [10 minutes]
 Session 5 : Korean and Japanese Young Scientist Session [10 minutes]



20th Anniversary International Symposium of the Korean Society for Biomaterials 2016

Poster Installation

Johnson Auditorium (Administration Building)

08:30~	Destatuation
09:40	Registration

Coffee Break

11:50

Keynote Lecture

16:00~

17.00

Coffee Break

engineering applications

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07:40	
Sessio	on 6 : Nanobiomaterials for Drug Delivery and Tissue Regeneration co-organized with Bio-Therapeutics Delivery Society Chair: Yong-Hee Kim (Hanyang Univ.), Han Chang Kang (Catholic Univ.)
09:40- 10:05	IL-08 New chitosan-based thermogels for biomedical applications Kang Moo Huh (Chungnam Nat'l Univ.)
10:05- 10:30	IL-09 Biomimetic hybrid nanoparticles for biomedical applications Hansoo Park (Chung-Ang Univ.)
10:30- 10:55	IL-10 Acute, sustained suppression of TGF-β for prevention of fibrosis around silicone implants Young Bin Choy (Seoul Nat'l Univ.)
10:55- 11:20	IL-11 Polysialic acid based nanoparticles as drug carrier Jong Ho Kim (Kyung Hee Univ.)
11./0	

Plenary	Lecture Chair: Jong-Chul Park (Yonsei Univ. College of Medicine)
11:50~ 12:30	PL-03 Development of the novel medical adhesive which consists of food additives and its medical application
12:30~ 14:00	Suong-Hyu Hyon (Kyoto Institute of Technology, JAPAN) Lunch

Chair: Jeong Koo Kim (Inje Univ.), Chun Ho Kim (KIRAMS)

14:00~ 14:30	KL-03 Design of polymeric vaccine delivery system for efficient mucosal immunization Chong-Su Cho (Seoul Nat'l Univ.)
14:30~ 15:00	KL-04 Activatable molecular nanoprobes corresponding to specific stimuli variations in cancer activity Seungjoo Haam (Yonsei Univ.)
15:00~ 15:30	KL-05 Magnesium hydroxide derivatives inhibit inflammation and enhance biocompatibility of biodegradable polymeric implants Dong Keun Han (KIST)
15:30~ 16:00	KL-06 Calcium phosphate nanoparticles-based systems for gene delivery Xiangdong Kong (Zhejiang Sci-Tech Univ., CHINA)

Session 9 : Biomedical Optics for Materials and Tissues	
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co-organized with the Korean Society of Medical and Biological Engineering
Chair: Pilhan Kim (KAIST), Young Bin Choy (Seoul Nat'l Univ.)

Seung Yun Nam (Pukyong Nat'l Univ.)

16:10~ 16:35	IL-16 Biophotonic in vivo reading and writing with animal models of cancer for translational medicine Euiheon Chung (GIST)
16:35~	IL-17 Noninvasive ultrasound and photoacoustic monitoring for tissue

17:00~ 17:25	Optical imaging techniques and image processing methods for multimodal tissue imaging Hongki Yoo (Hanyang Univ.)
17:25~	IL-19 Real-time intravital microscopy technique for highedical research

17:25~ 17:50	IL-19 Real-time intravital microscopy technique for biomedical research Pilhan Kim (KAIST)
18:10~ 18:30	Closing Remark and Awarding Ceremony (Oral Competition Award & Poster Presentation Session Award)

Korea Institute of Science and Technology (KIST) 5, Hwarang-ro 14-gil Seongbuk-gu Seoul, 02792 Republic of Korea Telephone: +82-2-958-5114

Convention Hall (International Cooperation Building No.8)

09:40	- Solo installation
Session	7 : Stent Research and Biomaterials co-organized with Korean Stent Research Society
	Chair: Il Keun Kwon (Kyung Hee Univ.), Yoon Ki Joung (KIST)
09:40- 10:05	IL-12 Recent update of bioabsorbable scaffolds Weon Kim (Kyung Hee Univ. College of Medicine)
10:05- 10:30	IL-13 Development of PLLA vascular scaffold with high strength Soo Hyun Kim (KIST)
10:30- 10:55	IL-14 Shape memory external support to prevent vein graft failure Hak-Joon Sung (Yonsei Univ. College of Medicine)
10:55- 11:20	IL-15 Flexible amorphous microwire for biomedical applications Sangwon Lee (SecuFibre Co.,Ltd.)
11:40~ 11:50	Coffee Break
12:30~	Lunch and Poster Presentation Session

Session 8 : Student Oral Competition			
	Chair: Yeu-Chun Kim (KAIST), Sun Hee Do (Konkuk Univ.)		

		Chair: Yeu-Chun Kin	n (KAIST), Sun Hee Do (Konkuk Uni	V. J
	SOC-14	Woo Ri Bae (Hanyang Univ.)	SOC-20 Tae-Kyung Ryu (Catholic Un.	iv.)
	SOC-15	S. H. Lee (Seoul Nat'l Univ.)	SOC-21 Hana Cho (Catholic Un.	iv.)
:00~	SOC-16 Myur	ngkyung Noh (Seoul Nat'l Univ.)	SOC-22 L.Palanikumar (UNIS	ST)
:00	SOC-17	Dong Hwan Oh (Ajou Univ.)	Soc-23 So-Ri Lee (Catholic Univ. of Daeş	gu)
	SOC-18	Geong Min Kim (Dankook Univ.)	SOC-24 Hyun-Ji Park (Yonsei Un	iv.)
	SOC-19	Yoshie Arai (CHA Univ.)	SOC-25 Yoonmi Hong (KAIS	ST)

16:00~ 16:10 Coffee Break

14.00

Session 10 : Clinical Application of Biomaterials in Orthopedic Field

Chair: Jin Woo Lee (Gachon Univ.), Yongsung Hwang (Soonchunhyang Univ.) 11 - 20 16:10~ Bioabsorbable implant in orthopedics 16:35 Hyung-Min Ji (Ajou Univ. Hospital) 16:35~ Implant in hip arthroplasty 17:00 Jeong Joon Yoo (Seoul Nat'l Univ. Hospital) 17:00~ Application of metal 3D printing in orthopaedic implant 17:25 Yongsik Kim (Seoul ST. Mary's Hospital) 17:25~ Biomaterials for spinal surgery 17:50 Ki-Hyoung Koo (Dongguk Univ. Ilsan Hospital)

Session 8 : Student Oral Competition II (7 minutes)

Chair: Seung-Woo Cho (Yonsei Univ.)



1 Administration Building

- Johnson Auditorium : Lecture
- Registration Desk
- Restaurant (1st)

International Cooperation Building No.8

- Convention Hall : Lecture
- 1, 2 conference room: Poster Presentation Session
- Restaurant (2st) : Banquet