

# Joint Symposium of the 5<sup>th</sup> Utah-Inha DDS & Advanced Therapeutics Research Center Symposium and the 7<sup>th</sup> International Symposium on Intelligent DDS

Dedicated to Prof. You Han Bae's 60<sup>th</sup> Birthday

Sheraton Incheon Hotel, Incheon, Korea

May 23-24, 2013

## Invitation

To DDS researchers across the world;

On behalf of Symposium Chairs, it is our pleasure to have the opportunity inviting you to the Joint Symposium of the 5<sup>th</sup> Utah-Inha DDS & Advanced Therapeutics Research Center (U&I DDS) Symposium and the 7<sup>th</sup> International Symposium on Intelligent DDS (ISIDDS), which will be held at the 'Sheraton Incheon Hotel', Incheon, Korea, May 23-24, 2013.

U&I DDS, which is a joint research center established by the University of Utah and Inha University Hospital has held annual symposium to share views on clinical application of drug delivery research since 2009. Also, ISIDDS has been held annually and served as an initiative to promote developments in drug delivery technology supported by the Korean government since 2007.

Especially, it is our great honored to announce that this joint symposium will be dedicated to Professor You Han Bae's 60<sup>th</sup> Birthday (University of Utah, USA) who has made outstanding contribution to the field of delivery science over decades. Particularly, he has made distinguished contribution and showed exceptional leadership in this field of Korean society as well as worldwide.

We would like to express our warmest welcome to you for joining this symposium. We hope you to enjoy the scientific sessions and the wonderful cultural attraction during your staying in Korea.

Yours sincerely,

### Symposium Chairs:

Youngro Byun, Ph.D. (Center for Tailored DDS for Biopharmaceuticals)  
Don Haeng Lee, M.D., Ph.D. (Utah-Inha DDS & Advanced Therapeutics Research Center)  
Doo Sung Lee, Ph.D. (Theranostic Macromolecules Research Center)  
Ick Chan Kwon, Ph.D. (Korea Institute of Science and Technology)

### Sponsors



### Symposium Administrative Office

Utah-Inha DDS Research Center (+82-32-858-9400) Sunbee Baek (sunbee.baek@unidds.com), Yunhee Lee (yunhee.lee@unidds.com)

### 23<sup>th</sup> May (Thursday)

9:00-9:10	<i>Welcome Address</i>
9:10-9:30	<i>Congratulatory address</i>
<b>Session I</b>	Chairman : <b>Seo Young Jeong</b> (College of Pharmacy, Kyung Hee University) <b>Byong Kwan Son</b> (Dean, School of Medicine, Inha University)
9:30-10:10	<i>Plenary Lecture : Bioreducible Polymer for Therapeutic Gene Delivery</i> <b>Sung Wan Kim</b> Department of Pharmaceutics & Pharmaceutical Chemistry, University of Utah, USA
10:10-10:45	<i>Targeted Drug Delivery: Insights by Professor You Han Bae</i> <b>Kinam Park</b> College of Pharmacy & Department of Biomedical Engineering, Purdue University, USA
10:45-11:05	<i>Intelligent Tailor-made Adenovirus using Nanocarriers for Cancer Gene Therapy</i> <b>Chae-Ok Yun</b> Department of Bioengineering, Hanyang University, Korea
11:05-11:40	<i>Multifunctional Actors in Gene Delivery by Poly(amido amine)s</i> <b>Johan F.J. Engbersen</b> Department of Biomedical Chemistry, University of Twente, The Netherlands
11:40-13:00	<u><i>Lunch</i></u>
<b>Session II</b>	Chairman : <b>Chang Koo Shim</b> (College of Pharmacy, Seoul National University) <b>Hoo-Kyun Choi</b> (College of Pharmacy, Chosun University)
13:00-13:35	<i>Targeted Chemo- and Molecular-Therapy by Self-Assembled Supramolecular Nanodevices</i> <b>Kazunori Kataoka</b> Department of Materials Engineering, University of Tokyo, Japan
13:35-13:55	<i>Stimuli-Sensitive Polysaccharides for Drug Delivery</i> <b>Jae Hyung Park</b> Department of Polymer Science and Engineering, Sungkyunkwan University, Korea
13:55-14:30	<i>Hybrid Polymeric Micelles for Combination Drug Delivery</i> <b>Glen S. Kwon</b> Department of Pharmaceutics, University of Wisconsin, USA
14:30-14:50	<i>Photo-responsive Polymeric Drug Carriers for Cancer Therapy</i> <b>Eun Seong Lee</b> Division of Biotechnology, The Catholic University of Korea, Korea
14:50-15:20	<u><i>Coffee Break</i></u>

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### Session III

	Chairman : <b>In San Kim</b> (School of Medicine, Kyungpook National University) <b>Kang Choon Lee</b> (College of Pharmacy, Sungkyunkwan University)
15:20-15:55	<i>Bioresponsive Degradable Micelles and Polymersomes for Active Intracellular Drug Release in Cancer Cell</i> <b>Zhiyuan Zhong</b> College of Chemistry, Chemical Engineering and Materials Science, Soochow University, China
15:55-16:15	<i>Glycol Chitin as a New Thermogelling Polymer for Biomedical Applications</i> <b>Kang Moo Huh</b> Department of Polymer Science and Engineering, Chungnam National University, Korea
16:15-16:50	<i>Evaluation of A Mouse Ovarian Cancer Model for Its Preclinical Suitability</i> <b>Margit M. Janát-Amsbury</b> Department of Gynecology, University of Utah, USA
16:50-17:10	<i>Enhancement of Angiogenesis Signalling for Future Therapy of Erectile Dysfunction</i> <b>Jun-Kyu Suh</b> Department of Urology, School of Medicine, Inha University , Korea

### Symposium Banquet

18:00-21:00	<i>Jack Nicklaus Golf Club House</i> Moderator <b>Seulki Lee</b> (School of Medicine, Johns Hopkins University) <b>Jae Hyung Park</b> (Dept. of Polymer Sci. & Eng., Sungkyunkwan University) Special Speaker <b>Chris Ireland</b> (Dean, College of Pharmacy, University of Utah)
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## 24<sup>th</sup> May (Friday)

### Session IV

	Chairman : <b>Moonsuk Nam</b> (Vice General Director, Inha University Hospital) <b>Soon Hong Yuk</b> (College of Pharmacy, Korea University)
9:00-9:20	<i>Scaffold-supported Resident Stem Cell Delivery for Cardiac Regeneration</i> <b>Seung Jin Lee</b> College of Pharmacy, Ewha Women's University, Korea
9:20-9:55	<i>Cell Sheet Engineering - Int'l Collaboration for Medical Innovation</i> <b>Mime Egami</b> Institute of Advanced Biomedical Engineering and Science, Tokyo Women's Medical University, Japan
9:55-10:15	<i>In-situ Crosslinkable Hydrogels for Therapeutic Applications</i> <b>Ki Dong Park</b> Division of Applied Chemistry and Biological Engineering, Ajou University, Korea
10:15-10:50	<i>Enzymatically Crosslinked Polysaccharide Based Hydrogels as an Extracellular Matrix for Cartilage Tissue Engineering</i> <b>Pieter J. Dijkstra</b> Department of Developmental Bioengineering, University of Twente, The Netherlands
10:50-11:10	<i>Nanogels Can be Used to Trace and Deliver Genes to Human Mesenchymal Stem Cells</i> <b>Keun-Hong Park</b> College of Biomedical Sciences, CHA University, Korea
11:10-11:30	<i>BMPs: Can We Afford to Take Some Risks or Should We Give It Up?</i> <b>Seung-Hwan Yoon</b>

11:30-13:00	Department of Neurosurgery, School of Medicine, Inha Univeristy, Korea <i>Lunch</i>
<b>Session V</b>	Chairman : <b>Sang Yoon Kim</b> (Asan Medical Center, Ulsan University) <b>Yong Hee Kim</b> (Department of Bioengineering, Hanyang University)
13:00-13:35	<i>Design and Biorecognition of Water-soluble Macromolecular Therapeutics</i> <b>Jindrich Kopecek</b> Department of Pharmaceutics & Pharmaceutical Chemistry, University of Utah, USA
13:35-13:55	<i>Photoactive Nano Drug Based on Polysaccharide in PDT</i> <b>Kun Na</b> Department of Biotechnology, The Catholic University of Korea, Korea
13:55-14:30	<i>Targeting Tumor Microenvironment with Drug Delivery System for Cancer Therapy</i> <b>Jun Wang</b> University of Science and Technology of China, China
14:30-14:50	<i>Hypoxia as a Target for Disease Specific Gene Therapy</i> <b>Minhyung Lee</b> Department of Bioengineering, Hanyang University, Korea
14:50-15:10	<i>Graphene-based Nanosheets for Delivery of Anticancer Therapeutics</i> <b>Yu-Young Oh</b> College of Pharmacy, Seoul National University, Korea
15:10-15:40	<i>Coffee Break</i>
<b>Session VI</b>	Chairman : <b>So Ra Park</b> (School of Medicine, Inha University) <b>Joon Myong Song</b> (College of Pharmacy, Seoul National University)
15:40-16:15	<i>Adverse Events for High-generation PAMAM Dendrimers in Blood</i> <b>David Grainger</b> Department of Pharmaceutics & Pharmaceutical Chemistry, University of Utah, USA
16:15-16:35	<i>Stimuli Sensitive Polymers for Drug Delivery; History and Perspectives</i> <b>Ick Chan Kwon</b> Biomedical Research Institute, Korea Institute of Science and Technology, Korea
16:35-17:10	<i>Thermoresponsive Soft Interfaces for Modulated Interaction with Biomolecules: From Capillary to Nanoparticles</i> <b>Akihiko Kikuchi</b> Department of Materials Science and Technology, Tokyo University of Science, Japan
17:10-17:30	<i>Multimodal Imaging Probes Based on Hybrid Nanoparticles</i> <b>Cheol-Hee Ahn</b> Department of Materials Science and Engineering, Seoul National University, Korea
17:30-17:40	<i>Closing Remarks</i>