

**18th International Symposium on Recent Advances
in Drug Delivery Systems**

Program Schedule

Tuesday, February 22nd, 2022

Time	Event	Location
6:00 pm	Welcome Reception	Summit View Room (2 nd floor)

Wednesday, February 23rd, 2022

Time	Event	Location
7:00 am	Registration	Bonneville Ballroom Atrium (1 st floor)
	<i>Breakfast</i>	

Welcome/Introductory Remarks by

Time	Speaker	Location
8:00 am	Erin Rothwell Vice President for Research University of Utah Randall Peterson Dean, College of Pharmacy Hamid Ghandehari Chair, Department of Pharmaceutics and Pharmaceutical Chemistry	Bonneville Ballroom (1 st floor)

Session 1

Moderator: David Grainger

Time	Speaker	Title
8:15 am	James Anderson Case Western Reserve University	The Sung Wan Kim I Knew
8:35 am	Jindřich Kopeček University of Utah	Smart Nanomedicines Based on Receptor Crosslinking
8:55 am	Nicholas Peppas The University of Texas at Austin	Cationic Nanogels for Oral Targeted siRNA Delivery to Macrophages for Treatment of Inflammatory Bowel Diseases
9:15 am	Helen Cho Samyang Holdings	Preclinical Development of Tissue-Selective Polymer-Lipid Based Nanoparticle Formulations for the Delivery of mRNA Vaccine and Therapeutics
9:35 am	Shreya Goel University of Utah	Multiscale Imaging in Nanomedicine: A Value Proposition
9:55 am	Coffee break	

Session 2

Moderators: Carol Lim and Yue Lu

Time	Speaker	Title
10:10 am	Jan Feijen University of Twente	In Memory of Prof. Dr. Sung Wan Kim
10:30 am	Wim Hennink Utrecht University	Stability of Drug-Loaded Polymeric Micelles
10:50 am	Suzie Pun University of Washington	VIPER: A Virus-Inspired Polymer for Endosomal Release
11:10 am	Jinming Gao UT Southwestern Medical Center	Nano-Immuno-Oncology: Harnessing Molecular Cooperativity for Cancer Immunotherapy
11:30 am	Tony Mikos Rice University	Injectable and 3D-Printable PNiPAAm-Based Hydrogels for Tissue Engineering
11:50am	Ram Mahato University of Nebraska	Polymeric Nanomedicine of Multiple Small Molecule Drugs for treating Medulloblastoma
12:10 pm	Lunch	
	Poster session	

Session 3

Moderator: Mingnan Chen

Time	Speaker	Title
1:10 pm	Christopher Porter Monash Institute of Pharmaceutical Sciences	Triglyceride-mimetic Prodrugs to Enhance Lymphatic Transport
1:30 pm	Byeongmoon Jeong Ewha Womans University	Biodegradable Thermogels for 3D Cell Culture
1:50 pm	Yong Hee Kim Hanyang University	The Late Professor Sung Wan Kim-inspired Oligopeptide Complex for Targeted Non-viral Gene Delivery
2:10 pm	Yu-Kyoung Oh Seoul National University	Nanomaterials for Modulation of Tumor Immune Microenvironments
2:30 pm	Hideyoshi Harashima Hokkaido University	Multifunctional Envelope-type Nano Device from Controlled Intracellular Trafficking to Clinical Application for Nanomedicines
2:50 pm	Youngro Byun Seoul National University	The Strategy to Treat pan-KRAS Mutant Cancers by Using Albumin Binding Caspase-3 Cleavable Peptide-drug Conjugate
3:10 pm	Coffee break	

Session 4

Moderator: Makoto Kondo

Time	Speaker	Title
3:25 pm	Teruo Okano University of Utah	Juvenile Chondrocyte Sheet-based Allogeneic Cartilage Regenerative Therapy
3:45 pm	Kazunori Kataoka Kawasaki Institute of Industrial Promotion	Engineered Nanosystems and Nanoconjugates with Smart Functionalities for Targeted Therapy of Intractable Diseases
4:05 pm	Chae-Ok Yun Hanyang University	Oncolytic Adenovirus: New Opportunity for Targeted Cancer Treatment
4:25 pm	Akihiko Kikuchi Tokyo University of Sciences	Stimuli Responsive Hydrogels Degradable Under Cancer Environment
4:45 pm	Zhiyuan Zhong Soochow University	Bioresponsive Polymersomes for Cancer Therapy and Immunotherapy
5:05 pm	Poster session	
7:15 pm	Banquet	

Thursday, February 24th, 2022

Time	Event	Location
7:00 am	<i>Breakfast</i>	Bonneville Ballroom Atrium (1 st floor)

Session 5

Moderator: You Han Bae

Time	Speaker	Title
7:45 am	Ick Chan Kwon Korea Institute of Science and Technology	Activatable Imaging Probe for Receptor-Ligand Binding
8:05 am	Doo Sung Lee Sungkyunkwan University	Degradation-Regulated Architecture of Injectable Smart Hydrogels Enhances Humoral Immune Response and Potentiates Antitumor Activity in Human Lung Carcinoma
8:25 am	Christine Allen University of Toronto	Harnessing Automation and Machine Learning for Sustainable Drug Formulation Development
8:45 am	Alexander Kabanov University of North Carolina	Morphology, Partitioning and Pharmacological Performance in Block Copolymer Systems
9:05 am	Glen Kwon University of Wisconsin	PEGylated Functional Upstream Domain Peptide from S. Pyogenes Disrupts Fibronectin Fibrillogenesis and Reduces Bleomycin-Induced Pulmonary Fibrosis
9:25 am	Twan Lammers RWTH Aachen University	Theranostic Strategies to Promote Polymeric Nanomedicine Clinical Translation
9:45 am	Coffee break	

Session 6

Moderator: Shawn Owen

Time	Speaker	Title
10:00 am	You Han Bae University of Utah	Mechanistic Pathway of Nanoparticle Ileal Absorption
10:20 am	Yoon Yeo Purdue University	Local Delivery of Paclitaxel and Nucleic Acids via an Immunoactive Polymer for Systemic Therapy of Solid Tumors
10:40 am	Yue Lu University of Utah	Digital Pharmaceuticals: A Data-driven Approach for Precision Medicine
11:00 am	Tejal Desai University of California, San Francisco	Nanostructured Interfaces to Modulate Epithelial Transport
11:20 am	Kidong Park Ajou University	Injectable Hydrogels Releasing Reactive Oxygen/Nitrogen Species for Tissue Regeneration
11:40 am	Patrick Stayton University of Washington	Engineering Prodrug Therapies For Infectious Disease Therapy
12:00 pm	David Grainger University of Utah	Closing Remarks
12:15 pm	Lunch	
1:30 pm	Adjourn	