

**THE 16TH US-JAPAN SYMPOSIUM ON DRUG DELIVERY SYSTEMS
DECEMBER 15-19, 2024**

MONDAY, DECEMBER 16, 2024

MORNING PLENARY SESSION

Discussion Leader: Nicholas Peppas

8:00 AM-8:35 AM – Kenji Hyodo, Ph.D. Senior Director, Head of Advanced Drug Delivery

Eisai Co., Ltd.

Optimization of drug release from liposomes for cancer therapy

8:35 AM-9:10 AM –Hiroshi Kikuchi, Ph.D. President

DDS Strategy Firm LLC

Usefulness of active release of liposomal cytotoxic drug by irradiation of near-infrared light

9:10 AM - 9:45 AM – Avi Domb

Hebrew University of Jerusalem

Injectable biodegradable polymers for drug delivery and tissue separation – from the bench to the clinic

9:45 AM-10:15 AM – Refreshment Break

10:15 AM-10:50 AM— Hirohide Saito, Ph.D. Professor

Institute for Quantitative Biosciences, The University of Tokyo; Center for iPS Cell Research and Application, Kyoto University

RNA synthetic biology approaches to program gene expression and cell-fate

10:50 AM-11:25 AM– Aaron Anselmo, Chief Scientific Officer

VitaKey Inc.

VitaKey Inc.: Unlocking the science of nutrition

11:25 AM-12:00 PM– Henry Brem, Professor and Director of Neurosurgery

John Hopkins University

Brain tumor treatments

12:00 PM-12:35 PM– Masayo Takahashi, President

Vision Care, Inc.

AI robotics and retinal cell therapy

AFTERNOON UNSCHEDULED

EVENING PLENARY SESSION

Discussion Leaders: Rodney Pearlman and Aimee Hamilton

7:00 PM-7:35 PM—Kristi Anseth, Distinguished Professor and Tisone Professor of Chemical and Biological Engineering

University of Colorado - Boulder

Adaptable and responsive hydrogels to develop tissue models for drug screening

7:35 PM- 8:10 PM - Kerry Benenato, Chief Platform Officer

Sail Biomedicines

Developing of fully programmable medicines to expand the therapeutic potential of RNA

8:10 PM-8: 35 PM- Refreshment Break

8:35 PM-9:10 PM — Chae-OK Yun, Professor

Hanyang University

Nanomaterial-based intranasal brain delivery

9:10 PM-9:45 PM - Masahiro Yasunaga , MD, PhD. Director

National Cancer Center, Exploratory Oncology Research & Clinical Trial Center

Development of next-generation antibody therapeutics utilizing DDS, molecular imaging, and cell biology

9:45 PM-10:20 PM – John Patton Senior Strategic Advisor

Kindeva Drug Delivery

Eliminate the syringe with epithelial delivery: Inhaled/nasal and intradermal delivery systems

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TUESDAY, DECEMBER 17, 2024

MORNING PLENARY SESSION

Discussion Leaders: Rebecca Carrier and Oljora Rezhdo

8:00 AM-8:35 AM– Cato Laurencin, University Professor and CEO, The Cato T. Laurencin Institute

University of Connecticut

Regenerative engineering

8:35 AM-9:10 AM– Kathryn Whitehead Professor

Carnegie Mellon University

Amine chemistry dictates innate and adaptive immune responses to lipid nanoparticles

9:10 AM-9:45 AM – Tetsuya Nagata, MD, Ph.D. Professor

NucleoTIDE and PepTIDE Drug Discovery Center, Department of Neurology and Neurological Science, Tokyo Medical and Dental University

Development of ligand conjugated nucleic acids therapy

9:45 AM-10:15 AM – Refreshment Break

10:15 AM-10:50 AM– Shimpei Gotoh, MD, Ph.D. Professor

Center for iPS Cell Research and Application, (CiRA), Kyoto University

Implementing pluripotent stem cells for human lung disease modeling

10:50 AM-11:25 AM– Upma Sharma President & CEO

Arsenal Medical

Innovative biomaterials: Transformative medicine

11:25 AM-12:00 PM– Wei Zhu, PhD Chief Technology Officer

CELLINK Bioprinting AB

Light-based bioprinting: The next frontier in biofabrication

AFTERNOON UNSCHEDULED

EVENING POSTER SESSION 1

Discussion Leaders: Shelley Weinstock and Howie Rosen

7:30 PM – 10:00 PM Oral Presentation of Posters - Selected from Poster Session #1

Refreshment Break: 8:30 PM

Session ends at approximately 10:00 PM

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WEDNESDAY, DECEMBER 18, 2024

MORNING PLENARY SESSION

Discussion Leaders: Bruce Zetter and Alex Denner

8:00 AM-8:35 AM – Sabrina Martucci Johnson, CEO

Daré Biosciences

Optimizing drug delivery that prioritizes women's health and well-being, expands treatment options, and improves outcomes

8:35 AM-9:10 AM – Patrick Anquetil, CEO

Portal Instruments

Transforming the patient experience with modern drug delivery systems

9:10 AM-9:45 AM– Shaoyi Jiang, Robert Langer '70 Family and Friends Professor

Cornell University

Zwitterionic materials and drug delivery systems.

9:45 AM-10:15 AM - Refreshment Break

10:15 AM-10:50 AM – Chad Mirkin, Director, International Institute for Nanotechnology; George B. Rathmann Professor of Chemistry, Chemical and Biological Engineering, Biomedical Engineering, Materials Science & Engineering,

Northwestern University

Structural nanomedicine: Repurposing the blueprint of life for through spherical nucleic acids

10:50 AM-11:25 AM –Katsuto Tamai MD Ph.D. Guest Professor

Osaka University Graduate School of Medicine

Development of tissue regeneration-inducing medicine (TRIM) for regenerating tissue stem cells in severely injured tissues

11:25 AM-12:00 PM – Badriprasad (Badri) Ananthanarayanan, Vice President of Platform

Earli, Inc

Teaching old lipids new tricks: Engineering LNP composition for extrahepatic delivery of DNA for lung cancer imaging and treatment

AFTERNOON UNSCHEDULED

EVENING PLENARY SESSION

Discussion Leader: Dan Hartman

7:00 PM-7:35 PM - Niya Bowers, Senior Program Officer

Bill and Melinda Gates Foundation

Advances in long-acting injectable (LAI) formulations for tuberculosis treatment with applications in LMICs

7:35 PM-8:10 PM - Ana Jaklenec, Principal Research Scientist

Massachusetts Institute of Technology

Innovations in vaccine delivery for global health

8:10 PM-8:35 PM – Refreshment Break

8:35 PM-9:10 PM - John Walker, Senior Program Officer

Bill and Melinda Gates Foundation

Long acting delivery of ARVs for HIV PrEP

9:10 PM-9:45 PM - Giancarlo Francese, Senior Program Officer

Bill and Melinda Gates Foundation

End-to-end development to address the needs of women in low- and middle-income countries: A holistic approach

9:45 PM-10:20 PM – Gregg Redeker, Senior Program Officer

Bill and Melinda Gates Foundation

Stabilizing and delivering live biotherapeutics for global health

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THURSDAY, DECEMBER 19, 2024

MORNING PLENARY SESSION

Discussion Leader: Gio Traverso

8:00 AM-8:35 AM - Michael Sefton University Professor and Scientific Director, Medicine by Design

University of Toronto

Regenerative biomaterial for cell delivery in Type 1 Diabetes

8:35 AM-9:10 AM - David Edwards- Adjunct Professor/Founder Sensory Cloud Inc.

John Hopkins Medical Center/Sensory Cloud Inc.

Controlled-release hydration of the airways to prevent the rise of chronic respiratory diseases with global warming

9:10 AM-9:45 AM - Asim Siddiqui Senior Vice President, Research

Seer Bio

Discoveries in the dirt: How nanoparticle biofouling led to the creation of a revolutionary proteomics product

9:45 AM-10:15 AM – Refreshment Break

10:15 AM-10:50 AM – Takanori Takebe, MD, Ph.D., Professor

Osaka University, Tokyo Medical and Dental University, Cincinnati Children's

Promise and impact of organoid medicine

10:50 AM-11:25 AM – Daniel G. Anderson, Joseph R. Mares (1924) Professor of Chemical Engineering

Massachusetts Institute of Technology

Non-viral delivery of nucleic acids for gene therapy and editing

11:25 AM-12:00 PM— Jeff Haley Senior Manager and Product Specialist

Celanese

Extruded long-acting polymer implants for macromolecules

AFTERNOON UNSCHEDULED

EVENING POSTER SESSION 2

Discussion Leader: Michael Langer

7:30 PM

Oral Presentation of Posters - Selected from Poster Session #2

Refreshment Break: 8:30 PM

Session ends at approximately 10:00 PM