SATURDAY, DECEMBER 14, 2019

1:30 PM-3:30 PM                  Ocean Lanai Terrace                Registration

3:30-5:30 PM                     Haleakala Ballroom

AFTERNOON PANEL DISCUSSION

3:30-3:45 PM – Introduction:     Session Chair - TBD

5:45 PM–6:55 PM                  Aloha Pavilion                Welcome Reception

EVENING PLENARY SESSION

7:00 PM-7:05 PM- Introduction:   Robert Langer and Yasuhiko Tabata
Discussion Leaders:              Molly Stevens and Frank Szoka

7:05 PM-7:40 PM – Katsuto Tamai
Osaka University Graduate School of Medicine
Development of stem cell regeneration-inducing medicine

7:40 PM-8:15 PM – Mark E. Davis
California Institute of Technology
Designing nanoparticles to cross the blood-brain barrier

8:15 PM-8:30 PM - Refreshment Break

8:30 PM-9:05 PM – Hidetoshi Masumoto
Kyoto University
Drug delivery system-based cardiovascular regenerative medicine: From bench to bedside

9:05 PM-9:40 PM – Marsha Moses
Boston Children’s Hospital/Harvard Medical School
Rationally designed precision theranostics for cancer and its metastases

9:40 PM-10:15 PM — Tony Voiers and William Daunch
Advanced Chemotherapy Technologies
Active drug delivery of chemotherapeutics via iontophoresis: Bypassing the barriers to traditional pancreatic cancer treatment
SUNDAY, DECEMBER 15, 2019

MORNING PLENARY SESSION

Discussion Leaders: Ana Jaklenec and Steve Kern

8:00 AM-8:35 AM – Dan Hartman
Bill and Melinda Gates Foundation
CMC innovation for global health: Why high-tech solutions fit in the low income world

8:35 AM-9:10 AM – Philip Welkhoff
Bill and Melinda Gates Foundation
Pathway to eradication: An innovation agenda for achieving a malaria-free world

9:10-9:45 AM—Kei Katsuno
Global Health Innovative Technology Fund
Introduction to GHIT Fund

9:45 AM-10:15 AM – Refreshment Break (30 mins)

10:15AM-10:50 AM-- Mark Prausnitz
Georgia Institute of Technology
Microneedle technologies for drug delivery

10:50 AM-11:25AM – Samir Mitragotri
Harvard University
Ionic liquids for drug delivery

11:25 AM-12:00 PM– Giovanni Traverso
Massachusetts Institute of Technology
Gastrointestinal device development in a few movements

AFTERNOON UNSCHEDULED

EVENING PLENARY SESSION

Discussion Leaders: Sung Wan Kim and Rami Suzuki

7:00 PM-7:35 PM— Chae-Ok Yun
Hanyang University
Reprogrammed oncolytic adenovirus as cancer immunotherapy

7:35 PM-8:10 PM – Takahiro Ochiya
Tokyo Medical University
EV as a novel DDS for cancer therapeutics

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

8:35 PM-9:10 PM — Christopher Loose
Frequency Therapeutics, Inc.
Progenitor cell activation: A potential disease modifying approach for hearing loss and other degenerative conditions

9:10 PM-9:45 PM — Chad Mirkin
Northwestern University
Opening the fields of digital medicine and rational vaccinology with spherical nucleic acids

9:45 PM-10:20 PM – Masaya Nakamura
Keio University School of Medicine
Regenerative medicine for spinal cord injury using iPS cells
MONDAY, DECEMBER 16, 2019

MORNING PLENARY SESSION

Discussion Leader: Yosi Kost and Howie Rosen

8:00 AM-8:35 AM – Shinsuke Sando
University of Tokyo
Artificial growth factors for controlling cellular functions and fates

8:35 AM-9:10 AM – Joachim Kohn
Rutgers University
Delivery of epigenetic modifiers as a promising alternative to the use of cytokines and growth factors in regenerative medicine

9:10 AM-9:45 AM – Tatiana Novobrantseva
Verseau Pharmaceuticals
Completing the immunity cycle by developing myeloid immunotherapies

9:45 AM-10:15 AM – Refreshment Break

10:15 AM-10:50 AM – Masaru Ishii
Osaka University Graduate School of Medicine
Intravital imaging technology dissecting cellular dynamics in inflammation and cancers in vivo

10:50 AM-11:25 AM – Joseph DeSimone
Carbon, Inc.
Digital manufacturing for healthcare applications

11:25 AM-12:00 PM – Hideyoshi Harashima
Hokkaido University
Multifunctional envelope-type nano device for gene/nucleic acids delivery: Concept and application to nanomedicine

AFTERNOON UNSCHEDULED

Discussion Leader: Nicholas Peppas

EVENING POSTER SESSION 1

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
TUESDAY, DECEMBER 17, 2019

MORNING PLENARY SESSION

Discussion Leader: Shelley Weinstock and Bruce Zetter

8:00 AM-8:35 AM – Rogerio Vivaldi
Sigilon Therapeutics
Liberating patients from chronic diseases

8:35 AM-9:10 AM – Zhen Gu
University of California, Los Angeles /Zenomics, Inc.
Glucose-responsive smart insulin delivery

9:10 AM-9:45 AM – Rosemary Kanasty
Lyndra Therapeutics
Making the most of each oral dose

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

10:15 AM-10:50 AM – Henry Brem
Johns Hopkins University
Brain tumor therapy

10:50 AM-11:25 AM – Patrick Anquetil
Portal Instruments
Connected, needle-free drug delivery

11:25 AM-12:00 PM – Ryo Kojima
Pharmaceutical Research and Technology Labs., Pharmaceutical Technology, Astellas Pharma Inc.
Drug delivery application of exosome/extracellular vesicles

AFTERNOON UNSCHEDULED

EVENING PLENARY SESSION

Discussion Leader: Hideyoshi Harashima and Paulina Hill

7:00 PM-7:35 PM --- Yosuke Hiraoka
Biomaterial group, R&D Center, Nitta Gelatin Inc.
Unlocked potential of gelatin

7:35 PM-8:10 PM – Upma Sharma
Arsenal Medical
Name of presentation TBD

8:10 PM-8:35 PM – Refreshment Break

8:35 PM-9:10 PM – Sabrina M. Johnson
Daré Bioscience, Inc.
Personalizing drug delivery for women: A vaginal ring to rule them all

9:10 PM-9:45 PM – Thomas von Erlach
Vivtex
Using the gastrointestinal organ robotic interface system for oral drug delivery applications

9:45 PM-10:20 PM—James Hedrick
Azul 3D
Unlocking high area rapid 3D printing for manufacturing
WEDNESDAY, DECEMBER 18, 2019

MORNING PLENARY SESSION

Discussion Leader: Susan Langer and Rodney Pearlman

8:00 AM-8:35 AM — Lloyd Johnston
Selecta Biosciences
*Tolerogenic nanoparticles to enable repeat dosing of gene therapy*

8:35 AM-9:10 AM – David Pernock and Adrian Hepner
Eagle Pharmaceuticals
*Eagle Pharmaceuticals’ role in scientific advancements*

9:10 AM-9:45 AM – Natalie Artzi
MIT/HMS/BWH
*Combination cancer (immuno)therapy*

9:45 AM-10:15 AM – Refreshment Break

10:15 AM-10:50 AM – Yasuhiro Matsumura
EPOC National Cancer Center
*Cancer stromal targeting (CAST) therapy*

10:50 AM-11:25 AM – Hiroshi Kikuchi
Shonan Research Laboratories, LTT Bio-Pharma
*Species difference problem on DDS formulation design and the established commission for the solution*

11:25 AM-12:00 PM — John Patton
Aerami Therapeutics
*So, you want to do a drug delivery company? Some stuff I’ve learned – Yikes!*

AFTERNOON UNSCHEDULED

EVENING POSTER SESSION 2

Discussion Leader: Sungho Han and Hiroshi Kikuchi

7:30 PM Oral Presentation of Posters - Selected from Poster Session #2

Refreshment Break: 8:30 PM

Session ends at approximately 10:00 PM

THANK YOU FOR PARTICIPATING - WE HOPE TO SEE YOU AGAIN AT THE 16TH SYMPOSIUM IN 2021