

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Drug Development in the Digital Age (Z1)

Scientific Organizers: Chris Benko and Qi Liu

Supported by the Directors' Fund

Digital Paths to Improve Human Health (Z2)

Scientific Organizers: Calum A. MacRae and Miah Wander

April 5-8, 2021 • Snowbird Resort • Snowbird, UT, USA

Supported by the Directors' Fund

Scholarship Deadline: December 17, 2020 / Abstract Deadline: January 12, 2021 / Discounted Registration Deadline: February 4, 2021

MONDAY, APRIL 5

Arrival and Registration

TUESDAY, APRIL 6

Welcome and Keynote Session (Joint)

Amy P. Abernethy[†], Food and Drug Administration, USA
Moving Toward a Tech-Savvy, Patient-Centric Future for Drug Development and Regulation

Peter Lee[†], Microsoft Research, USA
Reimagining Biomedicine as a Digital Ecosystem

Use of Machine Learning in Drug Discovery and Drug Repurposing (Z1)

Speaker to be Announced

Karen Akinsanya, Schrödinger, USA
Prime Time for in-silico Drug Development: From the Cloud to the Patient

Short Talks Chosen from Abstracts

Digital Inputs in Health Care (Z2)

Nancy Jean Cox, Vanderbilt University Medical Center, USA
Integrating Genomics with Traditional EMR Data at Scale

Rahul C. Deo, Brigham and Women's Hospital, USA
Machine Learning to Increase Information Content

Speaker to be Announced

Short Talks Chosen from Abstracts

How Does Digital Health Technology Change the Drug Development? (Z1)

Chris Benko, Koneksa Health, USA
Technology Enabled Opportunities to Improve Clinical Endpoints for Proof of Concept through Registration

Marcella Ruddy, Regeneron Pharmaceuticals, Inc., USA
From Science to Application: Digital Biomarkers to Accelerate Drug Development

Qi Liu, Food and Drug Administration, USA
Use of Sensors and Mobile Technology in Drug Development

Short Talks Chosen from Abstracts

Digital Outputs in Healthcare (Z2)

Benjamin Scirica, Brigham and Women's Hospital, USA
Remote Chronic Clinical Care through Digitally-Enabled Workflow Re-Design

Ann Marie Navar, Duke University Medical Center, USA
Outcomes in Digital Health

Adam Gazzaley[†], University of California, San Francisco, USA
Digital Therapeutics

Short Talks Chosen from Abstracts

Poster Session 1

WEDNESDAY, APRIL 7

Utilizing Real-World Data to Advance Drug Development and Precision Medicine (Z1)

Sean Hennessy, University of Pennsylvania Perelman School of Medicine, USA
The Past, Current and Future of Pharmacoepideiology

Rebecca Miksad, Flatiron Health, Inc, USA
Real World Data: Accelerating Drug Development in the Digital Age

Michael Fried, Target PharmaSolutions, USA
Evolving Impact of Real-World Evidence

David Martin[†], Food and Drug Administration, USA
The FDA MyStudies App: Patient Centered Outcomes Research Trust Fund Enabler for Distributed Clinical Trials and Real World Evidence Studies

Short Talks Chosen from Abstracts

Creating and Validating New Datasources for Healthcare (Z2)

Speaker to be Announced

Omer T. Inan, Georgia Institute of Technology, USA
Building Sensors for Novel Variables

Sara Browne, University of California, San Diego, USA
Digital Tools for Medication Compliance

Speaker to be Announced

Short Talks Chosen from Abstracts

Multi-Omic Precision Medicine in the Digital Age (Joint)

Jonathan Hirsch, Syapse, USA
EHR and Genomics Data

Speaker to be Announced

Lawrence H. Schwartz, Columbia University Medical Center, USA
Radiomics and AI

Short Talks Chosen from Abstracts

Jack A. Gilbert, University of California, San Diego, USA
Understanding the Microbiome-Drug Nexus in the Age of Digital Health

Poster Session 2

THURSDAY, APRIL 8

Virtualization of Clinical Trials (Z1)

Anne Heatherington, Takeda Pharmaceuticals, USA
Improving Efficiency of Clinical Trials through Technology: A Target Rich Environment

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Lara Mangravite, Sage Bionetworks, USA

Open-AD: A Radically Open Approach to Diversity the AD Drug Portfolio

Lisa A. Shipley, Merck Research Laboratories, USA

Optimizing Pharmacology with Novel Data Sources

Jon Duke[†], Georgia Institute of Technology, USA

Synthetic Cohorts in Oncology Clinical Development

Short Talks Chosen from Abstracts

Putting it all Together-Active use Cases (Z2)

Tim Shaw, University of Sydney, Australia

Digital Technologies Supporting New Models of Care

Todd Johnson, Optum, USA

Digital Innovation with a Payer

Speaker to be Announced

Digital Innovation in Pharma

Andrea (Andy) Coravos, Elektra Labs, USA

Regulatory Framework for Digital Health

Short Talks Chosen from Abstracts

AI, Data Sharing and Ethical Considerations (Z1)

Daniel Rubin, Stanford University, USA

Data Sharing through Distributed Learning

Marsali Hancock, EP3 Foundation, USA

Let's Get Technical: How to Bridge Cross-Sector and Cross-Border

Data Silos

Short Talks Chosen from Abstracts

Creating the Environment for Digital Healthcare (Z2)

Speaker to be Announced

Sherri Rose[†], Harvard Medical School, USA

Measuring and Managing Risk in Healthcare

Speaker to be Announced

Short Talks Chosen from Abstracts

Patient Focus (Z1)

Lynn Barghout Jafar[†], Loulou Foundation, UK

Advancing Research Together for CDLK5 Deficiency: Patients,

Parents, Academia and Industry

Yvonne Yu-Feng Chan, Otsuka Pharmaceuticals, USA

Digitalized Medicines in the Digital Medicine Era

Speaker to be Announced

Short Talks Chosen from Abstracts

Centering Technology on the Patient (Z2)

April W. Armstrong[†], University of Southern California, USA

User Interfaces and Digital Engagement

Speaker to be Announced

Andrea Grimes Parker[†], Georgia Institute of Technology, USA

Ensuring Inclusion in the Digital Health Revolution

Short Talks Chosen from Abstracts

Meeting Wrap-Up: Outcomes and Future Directions (Organizers)
(Z1)

Meeting Wrap-Up: Outcomes and Future Directions (Organizers)
(Z2)

FRIDAY, APRIL 9

Departure