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

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

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 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

How Does Digital Health Technology Change the Drug Development? (Z1)
Chris Benko, Koneksa Health, USA
Technology Enabled Research 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

Poster Session 1

WEDNESDAY, APRIL 7
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

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

Multi-Omic Precision Medicine in the Digital Age (Joint)
Jonathan Hirsch, Syapse, USA
EHR and Genomics Data
Lawrence H. Schwartz, Columbia University Medical Center, USA
Radiomics and AI
Jack A. Gilbert, University of California, San Diego, USA
Understanding the Microbiome-Drug Nexus in the Age of Digital Health
Short Talks Chosen from Abstracts

Poster Session 2

THURSDAY, APRIL 8
Putting it all Together-Active use Cases (Z2)
Speaker to be Announced
Tim Shaw, University of Sydney, Australia
Digital Technologies Supporting New Models of Care
Todd Johnson, Optum, USA
Digital Innovation with a Payer

* Session Chair † Invited but not yet accepted Program current as of June 20, 2020. Program subject to change. Meal formats are based on meeting venue. For the most up-to-date details, visit https://www.keystonesymposia.org.
**Digital Paths to Improve Human Health (Z2)**
Scientific Organizers: Calum A. MacRae and Miah Wander
Supported by the Directors' Fund

**Drug Development in the Digital Age (Z1)**
Scientific Organizers: Chris Benko and Qi Liu
April 5-8, 2021 • Snowbird Resort • Snowbird, UT, USA
Supported by the Directors' Fund

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**Speaker to be Announced**
**Digital Innovation in Pharma**

**Andrea (Andy) Coravos**, Elektra Labs, USA
**Regulatory Framework for Digital Health**

**Short Talks Chosen from Abstracts**

**Virtualization of Clinical Trials (Z1)**

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

**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**

**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**

**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**

**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**

**Patient Focus (Z1)**

**Lynn Barghout Jafar†**, Loulou Foundation, UK
**Advancing Research Together for CDLK5 Deficiency: Patients, Parents, Academia and Industry**

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