

# KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

## Digital Health: From Science to Application (A5)

January 21-25, 2019 • Keystone Resort • Keystone, Colorado, USA

Scientific Organizers: Geoffrey S. Ginsburg, Sue Siegel and Eric D. Perakslis

Supported by the Directors' Fund

Abstract & Scholarship Deadline: October 2, 2018 / Abstract Deadline: October 24, 2018 / Discounted Registration Deadline: November 27, 2018

### MONDAY, JANUARY 21

#### Arrival and Registration

### TUESDAY, JANUARY 22

#### Welcome and Keynote Session

**Sue Siegel**, GE Ventures, USA  
*Digital: The Future is Now*

#### The Science Behind Digital Technology

**Miah Wander**<sup>†</sup>, Microsoft, USA  
*Talk Title to be Announced*

**Tuan Vo-Dinh**, Duke University, USA  
*Novel Molecular Sensors and the Applications*

**Richard E. Kuntz**, Medtronic, USA  
*The Science of Novel Sensing Devices*

#### Short Talk(s) Chosen from Abstracts

#### Digital Health and Genomics Convergence

**David Shaywitz**, Takeda Ventures, Inc, USA  
*Overcoming the Data Science Implementation Challenge in Pharma R&D*

**Isaac Kohane**, Harvard Medical School, USA  
*SMART Technologies and Health Care*

**James Lu**, Helix, USA  
*Sequence Once, Query Often*

#### Short Talk Chosen from Abstracts

#### Poster Session 1

### WEDNESDAY, JANUARY 23

#### Applications of Digital Health to Personal Wellness

**Erwin P. Böttinger**, Hasso-Plattner-Institut für Digital Engineering gGmbH, Germany  
*Hasso-Plattner-Institut Digital Health Center: Creating Citizen-Centered Solutions for Better Health*

**Jason M. Langheier**, Zipongo, USA  
*Digital Nutrition Management*

**Ida Sim**, University of California, San Francisco, USA  
*Making Sense of Health Data*

#### Short Talk(s) Chosen from Abstracts

#### Applications of Digital Health Technologies to Drug Development

**Deborah Kilpatrick**, Evidation Health Inc., USA  
*Digital Phenotyping and Post Approval Monitoring of Drugs*

**Eric D. Perakslis**, Datavant, USA  
*Digital Biomarkers and More Efficient Clinical Drug Development*

**Andrea Coravos**, Elektra Labs, USA  
*Digital Biomarkers, Sensors, Algorithms, and the Future of Research*

**Chris Benko**, Koneksa Health, USA  
*Clinical Trials using Real World Data*

#### Short Talk Chosen from Abstracts

#### Poster Session 2

### THURSDAY, JANUARY 24

#### Keynote Address

**Sumbul Ahmad Desai**<sup>†</sup>, Apple Inc., USA  
*The Next Frontier of Digital Health, Science, and Health*

#### Developing Cohort Studies with Multiscale Multidimensional Data

**Jeffrey Olgin**, University of California, San Francisco, USA  
*eCohorts and eTrials*

**Robert Califf**<sup>†</sup>, Duke University, Verily Life Sciences, USA  
*Talk Title to be Announced*

**Eric Dishman**, National Institutes of Health, USA  
*Accelerating Precision Health for All of Us: The All of Us Research Program*

#### Short Talk(s) Chosen from Abstracts

#### Workshop and Panel: Strategies for Successful Digital Health Implementation

\***Sanjeev Bhavnani**, Scripps Clinic Rancho San Diego, USA

\***John Rumsfeld**, American College of Cardiology, USA

#### Specific Disease Applications of Digital Health

**Thomas R. Insel**, Mindstrong Health, USA  
*Transforming Brain Health*

**Helen L. Egger**, New York University, USA  
*Autism and Beyond*

**Aenor Sawyer**, University of California, San Francisco, USA  
*The Clinical-Digital Innovator*

#### Short Talk Chosen from Abstracts

#### Poster Session 3

### FRIDAY, JANUARY 25

#### Regulatory and Reimbursement Pathways

**Patrick Conway**<sup>†</sup>, BlueCross BlueShield of North Carolina, USA  
*Talk Title to be Announced*

**Sean Khozin**<sup>†</sup>, Food and Drug Administration, USA  
*Talk Title to be Announced*

**Busy Burr**, Humana, USA  
*The Future of Digital Health Innovation*

**Harold Paz**, Aetna, USA  
*Digital Health and the Triple Aim*

#### Short Talk(s) Chosen from Abstracts

#### Digital Health - What's the Value Proposition?

**John Rumsfeld**<sup>†</sup>, American College of Cardiology, USA  
*Talk Title to be Announced*

**Paul McNamee**<sup>†</sup>, University of Aberdeen, UK  
*Talk Title to be Announced*

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**Calum A. MacRae**, Brigham & Women's Hospital, USA  
*Biology Proximal Measures and Patient Trajectories*

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

**SATURDAY, JANUARY 26**

**Departure**