

CONFERENCE PROGRAM

Tuesday, February 19

- 5:00 p.m.-6:15 p.m.** **WELCOME AND OPENING KEYNOTE ADDRESS**
Legends Ballroom 1-4
- 5:00 p.m.-5:15 p.m. **Welcome**
Melissa L. Bondy, Baylor College of Medicine, Dan L. Duncan Cancer Center,
Houston, TX
- 5:15 p.m.-6:15 p.m. **Opportunities in technology and connected health for population science**
Warren A. Kibbe, Duke University, Durham, NC
- 6:15 p.m.-8:15 p.m.** **OPENING RECEPTION**
Encore
Opening Reception sponsored by Susan G. Komen

Wednesday, February 20

- 7:30 a.m.-8:30 a.m.** **BREAKFAST**
Encore
- 8:30 a.m.-10:45 a.m.** **PLENARY SESSION 1: UTILIZATION OF SOCIAL MEDIA, APPS, AND MOBILE
TECHNOLOGY FOR PARTICIPANT ENGAGEMENT, RECRUITMENT, AND FOLLOW-UP**
Legends Ballroom 1-4
Session Chair: Sophia S. Wang, City of Hope, Duarte, CA
- 8:30 a.m.-9:00 a.m. **Cancer prevention and control using mobile and social media tools: Disruptive
leaders in the field**
Sheana Bull, University of Colorado Denver and Anschutz Medical Center, Aurora, CO
- 9:00 a.m.-9:30 a.m. **Digital health and health equity**
Usha Menon, University of Arizona Cancer Center, Tucson, AZ
- 9:30 a.m.-10:00 a.m. **Data-driven recruitment: Implementation of digital marketing strategies for
improved participant response rates and retention**
Jennifer Benbow, City of Hope, Duarte, CA
- 10:00 a.m.-10:15 a.m. **Feasibility of online recruitment and retention of a large-scale observational
psychiatric initiative***
Anne-Mary N. Salib, 23&Me, Mountain View, CA
(not eligible for CME credit)
- 10:15 a.m.-10:30 a.m. **Using web-based tools to assess familial cancer risk in diverse populations***
Heather S. Feigelson, Kaiser Permanente Institute for Health Research, Denver, CO
- 10:30 a.m.-10:45 a.m. **Supporting post-mastectomy breast reconstruction choices through personalized
risk prediction and a decision support tool***
Mary C. Politi, Washington University in St. Louis School of Medicine, St. Louis, MO

**Short talk from proffered abstract*

CONFERENCE PROGRAM

10:45 a.m.-11:00 a.m.	BREAK Abbey Road
11:00 a.m.-12:45 p.m.	PLENARY SESSION 2: REAL-TIME EXPOSURE MEASUREMENTS Legends Ballroom 1-4 Session Chair: Marc T. Goodman , Cedars-Sinai Medical Center, Samuel Oschin Comprehensive Cancer Institute, Los Angeles, CA
11:00 a.m.-11:30 a.m.	Incorporating mobile health technology into a prospective cohort study to measure environment, physical activity, and sleep Peter James, Harvard T.H. Chan School of Public Health, Boston, MA
11:30 a.m.-12:00 p.m.	Wearable sweat sensor for personalized health monitoring Wei Gao, California Institute of Technology, Pasadena, CA
12:00 p.m.-12:30 p.m.	Title to be announced Job G. Godino, University of California San Diego, San Diego, CA
12:30 p.m.-12:45 p.m.	Feasibility of assessing individual's diet using a web-based dietary assessment tool, ASA24, in a longitudinal observational study* Yikyung Park, Washington University in St. Louis School of Medicine, St. Louis, MO
1:00 p.m.-3:00 p.m.	LUNCH ON OWN
2:00 p.m.-3:00 p.m.	SPECIAL LUNCH SESSION Legends Ballroom 1-4 New funding opportunities from the NCI Center for Cancer Training Michele McGuirl, Center for Cancer Training, National Cancer Institute, Bethesda, MD (not eligible for CME credit) A new NCI funding opportunity has been published for early-stage postdocs who wish to pursue careers as independent cancer researchers, and those in data and population sciences are especially encouraged to apply. Mentors and potential applicants (including international students and postdocs) are invited to learn more about this new pilot program and other funding opportunities offered by NCI.
3:00 p.m.-5:30 p.m.	PLENARY SESSION 3—PART I: LEVERAGING PUBLICLY AVAILABLE DATA FOR RESEARCH AND CLINICAL USE: FROM DATA LINKAGES TO MACHINE LEARNING Legends Ballroom 1-4 Session Chair: Melissa L. Bondy , Baylor College of Medicine, Dan L. Duncan Cancer Center, Houston, TX
3:00 p.m.-3:30 p.m.	Improving researcher accessibility to publicly available data through creative integration, geospatial visualization, and open data portals Ming Tsou, San Diego State University, San Diego, CA Caroline A. Thompson, San Diego State University, San Diego, CA
3:30 p.m.-4:00 p.m.	Data science techniques for understanding your cancer catchment area Jill S. Barnholtz-Sloan, Case Western Reserve University School of Medicine, Cleveland, OH

**Short talk from proffered abstract*

CONFERENCE PROGRAM

- 4:00 p.m.-4:30 p.m. **Finding, accessing, interoperating with, and reusing clinical data in artificial intelligence applications**
Lucila Ohno-Machado, University of California San Diego, San Diego, CA
- 4:30 p.m.-5:00 p.m. **Artificial intelligence or artificial inelegance—the state of AI in cancer diagnostics**
Martin C. Stumpe, Google, Mountain View, CA
- 5:00 p.m.- 5:30 p.m. **A prospective cohort study embedded into integrated health care systems in the US to study cancer etiology, prevention, and early detection**
Stephen J. Chanock, National Cancer Institute, Bethesda, MD
- Dinner on Own**

Thursday, February 21

- 7:30 a.m.-8:30 a.m. BREAKFAST**
Encore
- 8:30 a.m.-9:45 a.m. PLENARY SESSION 3—PART II: LEVERAGING PUBLICLY AVAILABLE DATA FOR RESEARCH AND CLINICAL USE: FROM DATA LINKAGES TO MACHINE LEARNING**
Legends Ballroom 1-4
Session Chair: Melissa L. Bondy, Baylor College of Medicine, Dan L. Duncan Cancer Center, Houston, TX
- 8:30 a.m.-9:00 a.m. **Use of administrative and electronic health records to identify cancer recurrences**
Christopher I. Li, Fred Hutchinson Cancer Research Center, Seattle, WA
- 9:00 a.m.-9:30 a.m. **Linking heterogeneous data to enable knowledge discovery in health care**
Tina Hernandez-Boussard, Stanford University, Stanford, CA
- 9:30 a.m.-9:45 a.m. **Utilizing electronic fertility clinic records and registry linkage to establish a retrospective population-based cohort study to evaluate the association between in vitro fertilization (IVF) and subsequent cancer risk in women***
Britton Trabert, National Cancer Institute, Bethesda, MD
- 9:45 a.m.-11:15 a.m. PLENARY SESSION 4: MHEALTH-MOBILE TECHNOLOGIES FOR INTERVENTIONS AND HEALTH MESSAGING**
Legends Ballroom 1-4
Session Chair: Peter Kraft, Harvard T.H. Chan School of Public Health, Boston, MA
- 9:45 a.m.-10:15 a.m. **Mobile virtual human health care guides for young adult childhood cancer survivors**
Albert Rizzo, University of Southern California, Los Angeles, CA
Donna Spruijt-Metz, University of Southern California, Los Angeles, CA
- 10:15 a.m.-10:45 a.m. **Precision behavior change via digital health technologies**
Eric B. Hekler, University of California San Diego, San Diego, CA
- 10:45 a.m.-11:15 a.m. **Title to be announced**
Rashmi Lakshminarayana, Medopad, London, United Kingdom

**Short talk from proffered abstract*

CONFERENCE PROGRAM

11:15 a.m.-1:30 p.m.	POSTER SESSION AND LUNCH Encore/ Legends Ballroom 5-6 <i>Poster Session sponsored by Susan G. Komen</i>
1:30 p.m.-3:15 p.m.	PLENARY SESSION 5: DATA INTEGRATION AND ANALYTICS Legends Ballroom 1-4 Session Chair: Marc T. Goodman , Cedars-Sinai Medical Center, Samuel Oschin Comprehensive Cancer Institute, Los Angeles, CA
1:30 p.m.-2:00 p.m.	How digital disintermediation (“apps”) and cloud computing change the precision prevention landscape Jonas S. Almeida, Stony Brook University, Stony Brook, NY
2:00 p.m.-2:30 p.m.	EHR-based tools and algorithms for managing cardiovascular risk among survivors Randi Foraker, Washington University in St. Louis, St. Louis, MO
2:30 p.m.-3:00 p.m.	California Teachers Study (CTS) Data Management Platform: A model for a repeatable turnkey, end-to-end, cloud-based data management, and analytics solutions for epidemiology cohorts Sandeep Chandra, University of California San Diego, San Diego, CA
3:00 p.m.-3:15 p.m.	Geocoding and integrating multiple environmental exposomics sources: Assessing population hazard to lung carcinogens in 421 zip codes of a cancer center catchment area* Thomas P. McKeon, University of Pennsylvania, Philadelphia, PA
3:15 p.m.- 3:30 p.m.	BREAK Abbey Road
3:30 p.m.-5:15 p.m.	PLENARY SESSION 6: PRACTICAL GUIDE FOR MODERNIZING ONGOING STUDIES—PITFALLS AND SUCCESS STORIES FROM THE FIELD Legends Ballroom 1-4 Session Chair: Sophia S. Wang , City of Hope, Duarte, CA
3:30 p.m.-4:00 p.m.	Leveraging modern data science to optimize discovery within epidemiologic treasures: Case study—the Nurses’ Health Study Francine Grodstein, Harvard T.H. Chan School of Public Health, Boston, MA
4:00 p.m.-4:30 p.m.	Insights from adopting a data commons approach: The California Teachers Study James V. Lacey, City of Hope, Duarte, CA
4:30 p.m.-5:00 p.m.	Opportunities and lessons learned from the Cancer Research Network Lawrence H. Kushi, Kaiser Permanente, Oakland, CA
5:00 p.m.-5:15 p.m.	Device-based, objective measurement of physical activity and sedentary behavior in a large U.S. cohort* Alpa V. Patel, American Cancer Society, Atlanta, GA
5:15 p.m.- 5:30 p.m.	BREAK Abbey Road

**Short talk from proffered abstract*

CONFERENCE PROGRAM

5:30 p.m.- 6:30 p.m.

SECOND KEYNOTE ADDRESS

Legends Ballroom 1-4

An ecosystem for the cancer data continuum

Anthony Kerlavage, Center for Biomedical Informatics & Information Technology, Rockville, MD

DINNER ON OWN

Friday, February 22

7:30 a.m.-8:30 a.m.

BREAKFAST

Encore

8:30 a.m.-10:30 a.m.

PLENARY SESSION 7—PART I: PRACTICAL GUIDE FOR LAUNCHING A NEW STUDY—REPORTS FROM THE FIELD

Legends Ballroom 1-4

Session Chair: Peter Kraft, Harvard T.H. Chan School of Public Health, Boston, MA

8:30 a.m.-9:00 a.m.

Early progress on the *All of Us* Research Program

Joshua C. Denny, Vanderbilt University, Nashville, TN

9:00 a.m.-9:30 a.m.

Title to be announced

Deborah Schrag, Project GENIE, Dana-Farber Cancer Center, Boston, MA

9:30 a.m.-10:00 a.m.

An innovative approach to improve clinical trials using adaptive in silico design

Judy Barkal, M2Gen, Tampa, FL

(not eligible for CME credit)

10:00 a.m.-10:15 a.m.

Linking electronic health records with cancer registry data for epidemiology and health services research: Challenges and opportunities*

Caroline A. Thompson, San Diego State University, San Diego, CA

10:15 a.m.-10:30 a.m.

Field application of digital technologies for health assessment in the 10,000 Families Study*

Bharat Thyagarajan, University of Minnesota, Minneapolis, MN

10:30 a.m.-11:30 a.m.

PLENARY SESSION 7—PART II: CLOSE-OUT SESSION: AN OPEN PANEL DISCUSSION AND Q&A ON THE SCIENTIFIC EFFORTS OF THE FUTURE

Legends Ballroom 1-4

Session Chair: Peter Kraft, Harvard T.H. Chan School of Public Health, Boston, MA

11:30 a.m.

CLOSING REMARKS

**Short talk from proffered abstract*