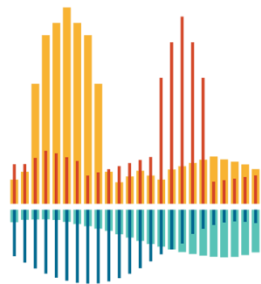


2018 North Coast Conference on Precision Medicine

(aka the ICB Symposium)



INSTITUTE FOR
**COMPUTATIONAL
BIOLOGY**

September 13, 2018

Dana C. Crawford, PhD
Associate Professor

Population and Quantitative Health Sciences
Institute for Computational Biology



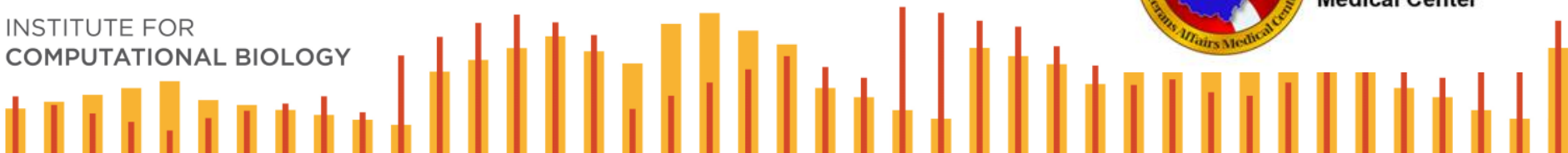


Precision Medicine Potential in CLE



Louis Stokes
Cleveland VA
Medical Center

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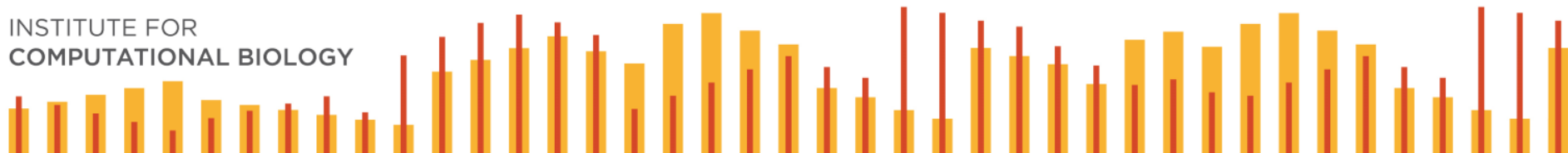
PRESENT-DAY PROBLEMS AND POTENTIALS FOR PRECISION MEDICINE (2015)

AND WORKSHOP

PUTTING THE PIECES TOGETHER: PRECISION MEDICINE DISCOVERY FROM
ELECTRONIC HEALTH RECORDS



- EHRs and Genomics
- Precision Medicine in CLE
- Big Data, Big Problems, and Big Potential
- Genomic Clinical Decision Support
- Precision Medicine in Asthma
- Health Disparities
- Extracting Data from EHRs



PRECISION MEDICINE FOR ALL

ENSURING DIVERSITY IN PARTICIPANTS AND IN PRACTICE (2016)



Darcy Freedman, PhD



David Kaelber, MD,
PhD, MPH



Timothy Thornton, PhD



Jacob McCauley, PhD



Minoli Perera,
PharmD, PhD



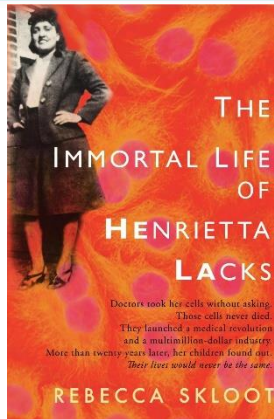
Esteban Burchard,
MD, MPH



Aaron Goldenberg, PhD,
MPH

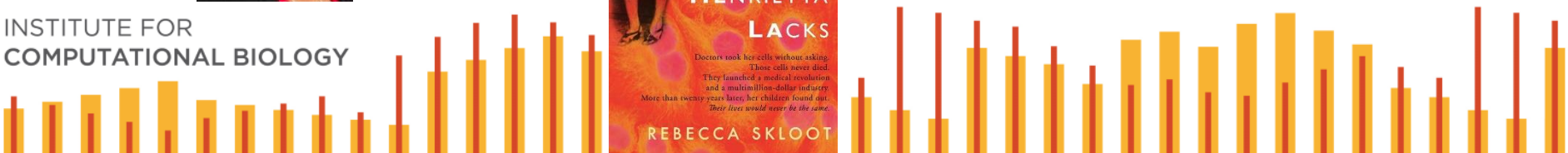
Our Symposium Speakers

oooo



- Diversity in Precision Medicine
- Genetics and Public Attitudes
- Outreach experiences in CLE
- EHRs
- Biorepositories in US Territories
- Statistical Approaches and Diversity
- Pharmacogenomics
- Participation in Biomedical Research

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BEING PRECISE IN PRECISION MEDICINE MEASURING EXPOSURES IN DIVERSE POPULATIONS (2017)

AND WORKSHOP

STRATEGIES FOR ENHANCING THE VALUE AND UTILITY OF RESEARCH THROUGH
ELECTRONIC HEALTH RECORDS

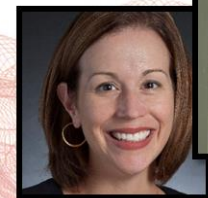
Erika Trapl, PhD



Stefanie Ebelt Sarnat, ScD, MSc



Erin Ramos, PhD, MPH



Jennifer Schrack, PhD



Monica Webb Hooper, PhD



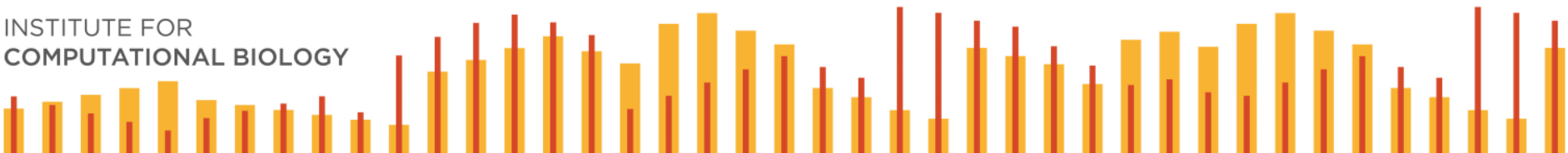
Misa Graff, PhD



Sarah Pendergrass, PhD

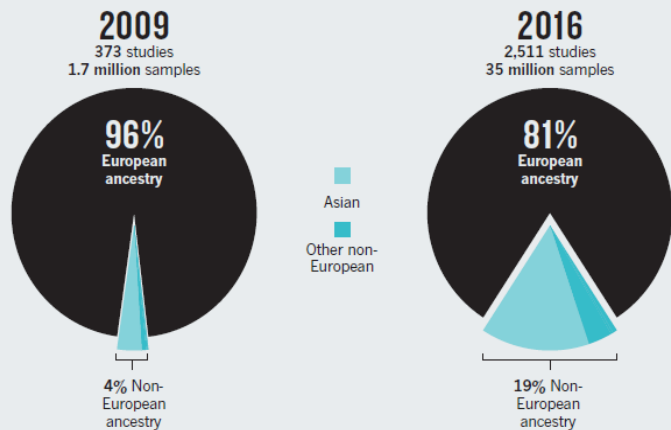
- Air Pollution
- Physical Activity
- GxE Studies
- EHR Data Extraction
- Variable Harmonization
- Stress Exposure and Disparities
- CLE Cigar and Cigarillo Use

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PERSISTENT BIAS

Over the past seven years, the proportion of participants in genome-wide association studies (GWAS) that are of Asian ancestry has increased. Groups of other ancestries continue to be very poorly represented.



of online surveys completed by participants



Popejoy and Fullerton (2016) *Nature* 538: 161-164

(Photo credit: Dr. Janina Jeff at the 2017 New Balance Bronx 10 Mile)



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SEQUENCING AND GENOTYPING IN DIVERSE POPULATIONS: WHO WANTS WHAT BACK (AND WHEN)? 2018

Sarah Hartz, MD, PhD



Latrice Landry, PhD, MS



Brenda Finucane, MS, LGC

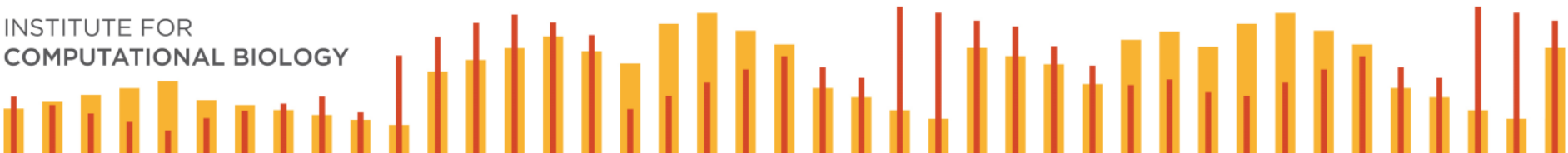


Aniwaa Owusu Obeng, PharmD

Nanibaa'A. Garrison, PhD

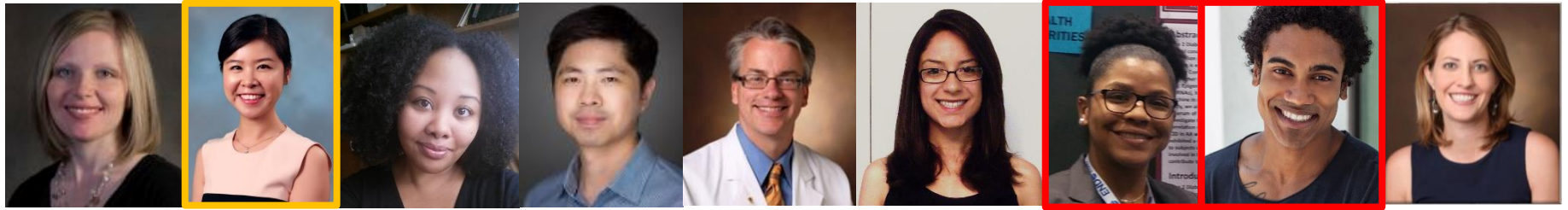


- Equitable participation of underserved populations
- Internet-based engagement
- Precision medicine gaps and minority communities
- Translational pharmacogenomics
- Returning whole exome sequencing results

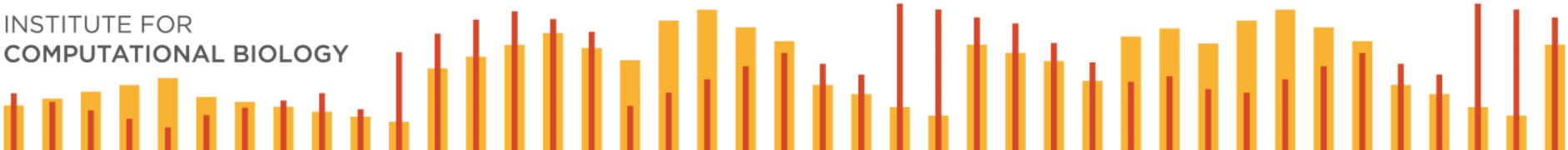


TRAVEL AWARDEES

(NIH/NHGRI R13HG010286 AND ICB)



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SEQUENCING AND GENOTYPING IN DIVERSE POPULATIONS: WHO WANTS WHAT BACK (AND WHEN)? 2018



Break
Garden room
3:30-4:00pm



Posters and drinks
Garden room
6:00-7:30pm



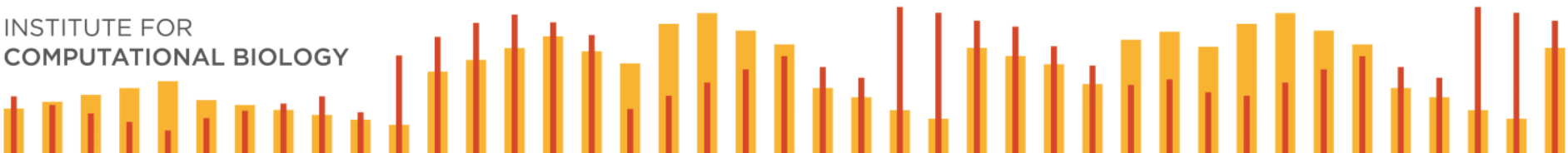
Dinner
Woodland Hall
7:30pm-til



SYMPOSIUM LOGISTICS



Validate your parking tickets!



SOCIAL MEDIA

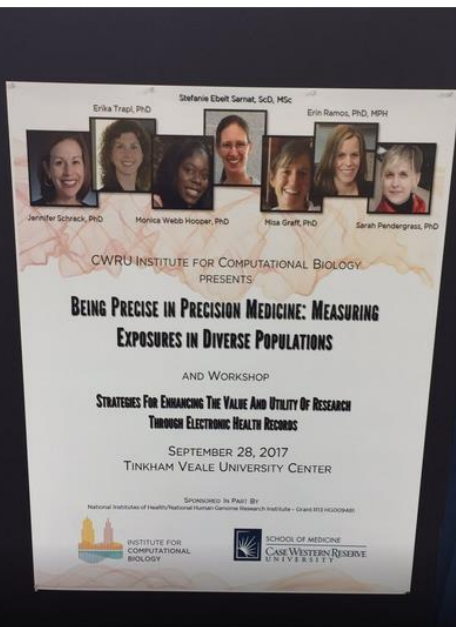
#ICBSymposium



Jennifer Schrack, PhD

@jenschrack

a year ago



Exploring the role of wearables in precision medicine
#ICBSymposium @CaseWesternRe

0 0 0 0 0



Minoli Perera @MinoliPereraPgx · 29 Sep 2016

The Lacks family and me. #ICBSymposium



0 0 1



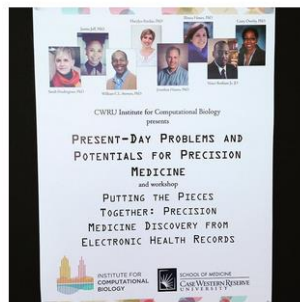
Minoli Perera @MinoliPereraPgx · 29 Sep 2016

honored to be speaking with the Lacks family on precision medicine and diversity.
#ICBSymposium

icompbio.net/?page_id=1894

0 0 0

Institute for Comp Biology, Sep 22, 6:01 PM [Remove](#)



A day well-spent! #icbsymposium

Jessica Cooke Bailey, Sep 22, 4:55 PM [Remove](#)

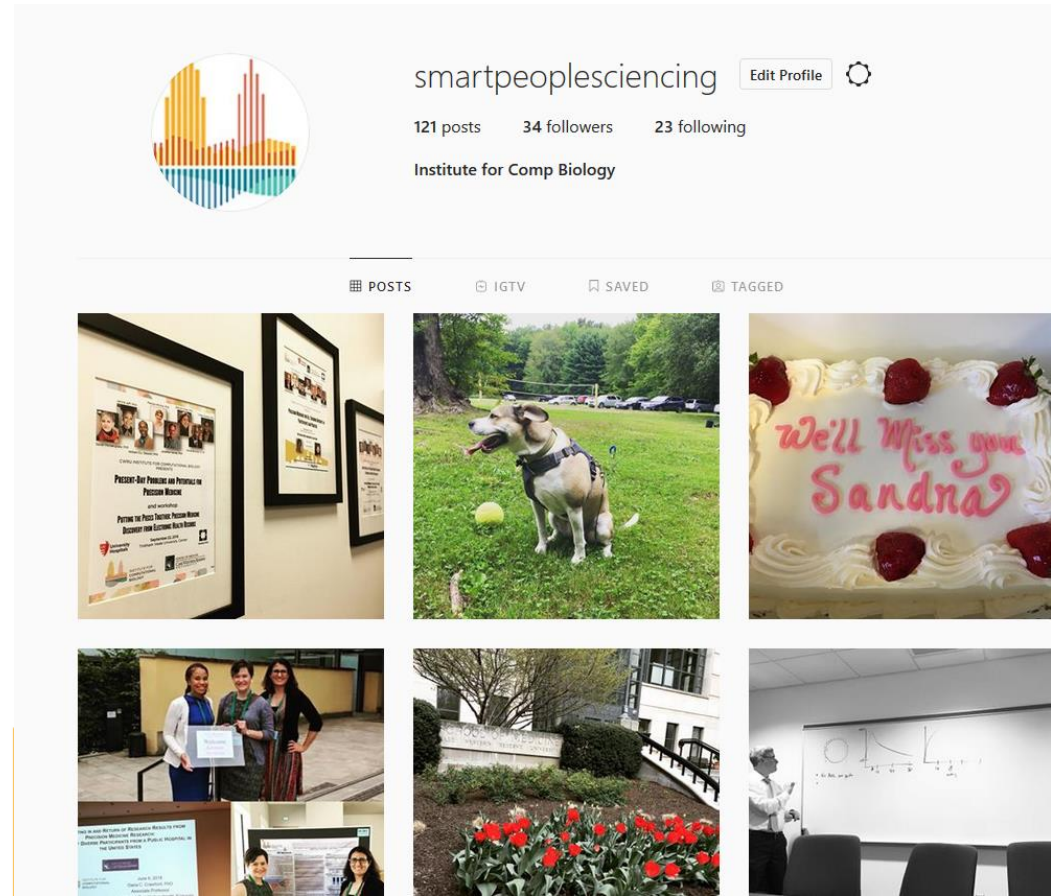


Getting instructions from Dr. Pendergrass on the e-phenotyping workshop.
#icbsymposium

SOCIAL MEDIA

#ICBSymposium

We're on Instagram!



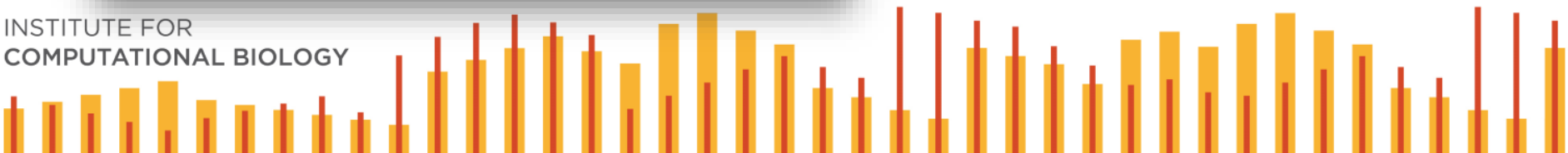
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SYMPOSIUM LOGISTICS



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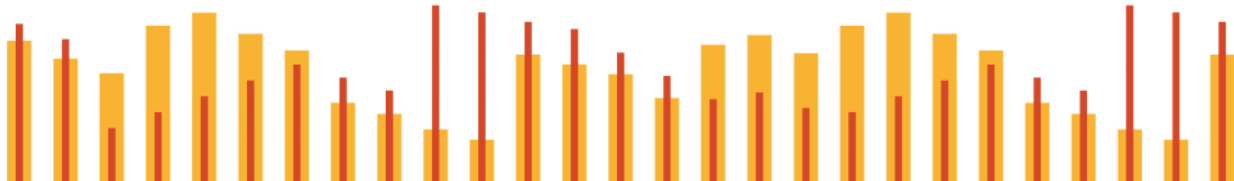
CUSTOMERS WHO BOUGHT THIS ALSO MAY LIKE...



Heidi Aungst



Kingsgate Marriott
Cincinnati, OH
May 10, 2019
FREE!



SPECIAL THANKS



Tuesday Gibson
Administrative
Assistant
(shown at NCCPM 2016)



Will Bush, PhD, MS
"Director of Visual
Communications"
(shown at AMIA Joint Summits 2018)



Paula Darte
Communications
Specialist

