

NINR Boot Camp

Precision Health: From ‘Omics’ to Data Science

2016

Monday July 25, 2016

Introduction & Significance of Precision Health

Time:	Topics:	Presenter:
8:00–8:30am	Meet, Greet, Coffee	
8:30–9:00am	Program Opener & Introductions	Mary Engler, PhD, RN, MS Training Director, National Institute of Nursing Research
9:00 – 9:30am	Welcome & Program Overview	Patricia Grady, PhD, RN, FAAN Director, National Institute of Nursing Research
9:30–10:30am	Morning Keynote: How Scientific Wellness Will Transform Healthcare	Leroy Hood, MD, PhD President and Co-founder, Institute for Systems Biology
10:30 – 10:45am	BREAK	
10:45 – 11:45am	Advancing Precision Health: A Nursing informatics research perspective	Suzanne Bakken, PhD, RN, FAAN, FACMI Professor and Director of the Center for Evidence-based Practice, Columbia University
11:45 – 12:45	Nutrigenomics and Precision Health	José M Ordovás, Ph.D. Director and Professor Nutrition and Genomics, USDA at Tufts University
12:45 – 1:45pm	LUNCH	
1:45 – 2:45pm	Pharmacogenomics in Precision Health	Deanna L. Kroetz, PhD, Professor, University of California, San Francisco
2:45 – 3:45pm	Translational Bioinformatics	Zhongming Zhao, PhD, MS Dr. Doris L. Ross Professor & Director, Center for Precision Health, School of Bioinformatics, University of Texas Health Science Center at Houston
3:45 – 4:00pm	BREAK	
4:00 – 5:00 pm	Afternoon Keynote: Precision Health vs Precision Medicine	Lloyd Minor, MD Carl and Elizabeth Naumann Dean, Stanford University School of Medicine
5:00– 5:15pm	Questions / Closing Remarks	

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Tuesday July 26, 2016
Clinical Omics

Time:	Topics:	Presenter:
8:00 – 8:30am	Coffee & Networking	
8:30–9:30am	Clinomics at the Mayo Clinic: New Frontiers in Patient Care	Eric D. Wieben, PhD Professor and Co-Director of Clinomics, Mayo Clinic
9:30–10:30am	Cancer as a Disease of the Metaorganism	Giorgio Trinchieri, MD Senior Investigator Cancer and Inflammation Program, National Cancer Institute, NIH
10:30 – 10:45 am	BREAK	
10:45-11:45am	The Impact of Precision Medicine on Outcomes, Quality and Safety Monitored by Nurses	Kathleen McCormick, PhD, RN, FACMI, FAAN, FHIMSS, HIMSS Principal/Owner, SciMind, LLC
11:45 – 12:45	Pharmacogenomics: Discovery to Implementation	Richard Weinshilboum, MD, Professor of Pharmacology and Medicine and Mary Lou and John H. Dasburg Professor of Cancer Genomics Research at Mayo Clinic
12:45-1:30 pm	LUNCH	
1:30-2:30pm	TBD	Eric Dishman Director of the Precision Medicine Initiative Cohort Program, NIH
2:30-2:40pm	Break into groups	
2:40 – 4:00pm	Breakout Session 1: 1. Clinomics 2. Microbiome 3. Nursing Informatics 4. Pharmacogenomics	
4:00-4:15pm	BREAK	
4:15– 5:30pm	Breakout Session 2: Introduction to Clinical Genomics	Medha Bhagwat, PhD Bioinformatics Support Program Coordinator/Informationist NIH Library

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Wednesday July 27, 2016

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Ethical, Legal, and Social Implications; Omics and Informatics

Time:	Topics:	Presenter:
8:00 – 8:30am	Coffee & Networking	
8:30–9:30am	TBD	Katie Lewis, ScM Genetic Counselor and Protocol Coordinator, National Human Genome Research Institute, NIH
9:30 –10:30am	At the Frontier of Big Data and Patient-Centered Care: PROs, PGD and Personalized Experiments	Erin Holve, PhD MPH MPP Senior Director, AcademyHealth
10:30 – 10:45am	BREAK	
10:45–11:45	Your Genomic Privacy and Other Ethical Issues in Big Data Biology	Pilar N. Ossorio, PhD, JD Professor of Law and Bioethics, University of Wisconsin
11:45 – 12:45	Ethical Aspects of Team Science in Clinical Research	Connie Ulrich, PhD, RN Professor of Bioethics and Nursing University of Pennsylvania
12:45 – 1:45	LUNCH	
1:45 – 2:45pm	TBD	Peter J. Embi, MD, MS, FACP, FACMI Associate Professor and Vice Chair of the Department of Biomedical Informatics, Ohio State University
2:45 – 3:45 pm	Metabolomic Correlates of Cardiometabolic and Age-Related Phenotypes in the Community	Susan Cheng, MD Physician, Brigham and Women's Hospital & Assistant Professor of Medicine, Harvard Medical School
3:45 – 4:00 pm	BREAK	
4:00 – 5:00 pm	Informatics Challenges and Opportunities in Building and Supporting Large Omics Projects and Molecular Clinical Testing in a Health System	Aaron Black Director of Informatics, INOVA Translational Medicine Institute
4:45 – 5:00pm	Closing Remarks / Questions	

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Thursday July 28, 2016

Data Science and Bioinformatics: Genomics and the EHR

Time:	Topics:	Presenter:
8:00 – 8:30am	Coffee & Networking	
8:30–9:30am	TBD	Leslie Biesecker, M.D. Chief & Senior Investigator, Medical Genomics and Metabolic Genetics Branch, National Human Genome Research Institute, NIH
9:30 – 10:30am	Do our genes determine what we should eat?	Ahmed El-Soheemy, PhD Professor and Canada Research Chair in Nutrigenomics, University of Toronto
10:30 – 10:45am	BREAK	
10:45–11:45	TBD	Nicholas Marko, MD Chief Data Officer, Geisinger Health System
11:45 – 12:45	Precision Health at the INOVA Health Care System	Benjamin D. Solomon, MD Chief, Division of Medical Genomics, INOVA
12:45 – 1:45	LUNCH	
1:45 – 3:00pm	Breakout Session 1: 1. Clinical Genomics & Precision Health 2. Nutrigenomics 3. The Geisinger & INOVA Models for Precision Health 4. Tour NIH Clinical Center	
3:15 – 4:45pm	Breakout Session 2: 1. Clinical Genomics & Precision Health 2. Nutrigenomics 3. The Geisinger & INOVA Models for Precision Health 4. Tour NIH Clinical Center	
4:45 – 5:00pm	Closing Remarks / Questions	

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Friday July 29, 2016

Opportunities for Training and Research Funding and Hands-On Data Science Methods Training

Time:	Topics:	Presenter:
8:30–12:00	Funding Opportunities at NIH	Program Officers from NIH David Banks, PhD, MPH, RN from NINR Lois Tully, PhD from NINR Valerie Florance, PhD from NLM P.J. Brooks, PhD from NCATS Susan Hughes, PhD from NCI Pankaj Qasba, PhD from NHLBI
12:00 – 1:00pm	LUNCH	
1:00 – 2:15pm	Data Science: R and Statistics	Lisa Federer, MLIS, MA, AHIP Research Data Informationist, NIH Library
2:15 – 2:30	BREAK	
2:30 – 3:45pm	Statistical Methods for Functional Genomics	Sean Davis, M.D., Ph.D. Staff Scientist, Genetics Branch, NCI
3:45 – 4:15pm	TBD	Ann K. Cashion, PhD, RN, FAAN Scientific Director, National Institute of Nursing Research/ NIH