Monday August 7, 2017

Introduction & Significance of Precision Health and Omics Sciences

Time:	Topics:	Presenter:
8:00-8:30am	Meet, Greet, Coffee	
8:30-9:00am	Registration/Sign- In	
9:00 – 9:30am	Welcome & Program Overview	Pamela Tamez, PhD Acting Training Director & Deputy Training Director, National Institute of Nursing Research
9:30–10:30am	Morning Keynote: Precision Health in Action: Improving Cardiovascular Health Outcomes	Hannah Valantine, MD, MRCP Chief Officer for Scientific Workforce Diversity and Senior Investigator, Laboratory of Transplantation Genomics, National Heart, Lung, and Blood Institute (NHLBI)
10:30 – 10:45am	BREAK	
10:45 – 11:45am	A Nursing Science Perspective on Precision Health: A Way Forward	Debra Lyon, RN, PhD, FAAN Kirbo Endowed Chair Professor and Executive Associate Dean College of Nursing, University of Florida
11:45 – 12:45pm	Using Genetic Information for Personalized Nutrition	Daiva E. Nielsen, PhD Brigham & Women's Hospital Harvard Medical School
12:45 – 1:45pm	LUNCH	
1:45 – 2:45pm	Pharmacogenetics: The Impact of Genotype for Tailoring Drug Therapy	Larisa Cavallari, Pharm. D. Associate Professor & Director, Center for Pharmacogenomics, University of Florida, College of Pharmacy
2:45 - 3:45pm	Translational Bioinformatics	Jessica Tennebaum, PhD Associate Director, Bioinformatics, Duke Clinical & Translational Science Institute
3:45 – 4:00pm	BREAK	
4:00 – 5:00pm	Afternoon Keynote: Informing Precision Health with the Use of Clinical Big Data	Joshua C. Denny, MD, MS, FACMI Professor, Biomedical Informatics & Medicine Director, Vanderbilt Center for Precision Medicine Vice President for Personalized Medicine Vanderbilt University Medical Center
5:00-5:15pm	Questions / Closing Remarks	

Tuesday August 8, 2017 Clinical Omics and Precision Medicine

Time:	Topics:	Presenter:
8:00 – 8:30am	Coffee & Networking	
8:30–9:30am	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
9:30 –10:30am	TBD	Wendy A. Henderson, PhD, MSN, CRNP, FAAN Investigator & Chief, Digestive Disorders Unit National Institute of Nursing Research (NINR/NIH)
10:30 – 10:45am	BREAK	
10:45-11:45am	Clinomics at the Mayo Clinic: New Frontiers in Patient Care	Matthew Ferber, PhD Director, Mayo Clinical Genome Sequencing Laboratory
11:45 – 12:45pm	Pharmacogenomics: Discovery to Implementation	Richard Weinshilboum, MD Professor of Pharmacology and Medicine and Mary Lou and Johns Dasburg Professor of Cancer Genomics Research at Mayo Clinic
12:45-1:30pm	LUNCH	
1:30-2:30pm	Breakout Session 1: 1. Nursing Informatics 2. Pharmacogenomics 3. Microbiomics	Kathleen McCormick Richard Weinshilboum
2:40 – 4:00pm	Breakout Session 2: 1. Nursing Informatics 2. Pharmacogenomics 3. Microbiomics	Kathleen McCormick Richard Weinshilboum
4:00 – 5:00pm	Omics Nursing Science and Education Network	Ann K. Cashion, PhD, RN, FAAN Scientific Director, National Institute of Nursing Research/ NIH
5:00-5:15pm	Closing Remarks & Closing	

Wednesday August 9, 2017

Ethical, Legal, and Social Implications and Informatics

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Time:	Topics:	Presenter:
8:30 – 9:00am	Coffee & Networking	
9:00 – 9:30am	Precision Health and NINR-Supported Nursing Science	Patricia Grady, PhD, RN, FAAN Director, National Institute of Nursing Research
9:30 - 10:30am	Illustrative Case Studies on the Implications of Genetic Sequencing: A Genetic Counselor's Perspective	Katie Lewis, ScM Genetic Counselor and Protocol Coordinator, National Human Genome Research Institute, NIH
10:30 - 11:30am	Ethical Aspects of Team Science in Clinical Research	Connie Ulrich, PhD, MSN, RN Professor of Bioethics and Nursing Secondary Appointment, Department of Medical Ethics and Health Policy
11:30-11:40am	BREAK	
11:40 – 12:40pm	At the Frontier of Big Data and Patient-Centered Care: PROs, PGD and Personalized Experiments	Erin Holve, PhD MPH MPP Director, Health Care Reform and Innovation Administration, Department of Health Care Finance Government of the District of Columbia
12:40 – 1:40 pm	LUNCH	
1:40 - 2:40pm	Accelerating Precision Health for All: The Precision Medicine Initiative Cohort Program	Eric Dishman Director of the Precision Medicine Initiative Cohort Program, NIH
2:40 - 3:40pm	From Bits to Bedside: Translating Big Data into Precision Medicine and Digital Health	Dexter Hadley, MD, PhD Assistant Professor, University of California- San Francisco
3:40 - 4:40pm	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
4:40 5:00 pm	Closing Remarks	

Thursday August 10, 2017

Innovating Health: From Genomics to Health Care System Models

Time:	Topics:	Presenter:
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8:00 – 8:30am	Coffee & Networking	
8:30–9:30am	Predictive Medicine and Secondary Findings	Leslie Biesecker, MD Chief & Senior Investigator, Medical Genomics and Metabolic genetics Branch, National Human Genome Research Institute (NHGRI/NIH)
9:30 –10:30am	Human Microbiome Project	Lita M. Proctor, PhD Program Director, Human Microbiome Project Division of Genome Sciences, National Human Genome Research Institute (NHGRI/NIH)
10:30 - 10:45am	BREAK	
10:45-11:45pm	Multi-omics: A Systems Biology Approach to Biomarker Discovery and Validation	Allen Dale Everett, MD Director of the Pediatric Proteome Center Professor of Pediatrics, Johns Hopkins University
11:45 – 12:45pm	Metabolomics 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
12:45 – 1:45pm	LUNCH	
1:45 – 3:00pm	Breakout Session 1:	 Sean Davis, MD, PhD Staff Scientist, Genetics Branch, NCI David Wheeler, PhD NCI Mariam Quinones, PhD Lead, Translational Bioinformatics Program (NIAID)
3:00 - 3:15pm	BREAK	
3:15 – 4:45pm	Breakout Session 2: 1. Data Science: R and Statistics 2. Introduction to Clinical Genomics 3. Microbiome Analysis	 Sean Davis, MD, PhD Staff Scientist, Genetics Branch, NCI David Wheeler, PhD NCI Mariam Quinones, PhD Lead, Translational Bioinformatics Program (NIAID)
4:45 – 5:00pm	Closing Remarks / Questions	

Friday August 11, 2017 Omics Science to Clinical Practice

Time:	Topics:	Presenter:
8:30 – 9:00am	Hotel Check-out/Coffee/Networking	
9:00 - 9:50am	Precision Health Applications in Cardiovascular Nursing Science	Kathleen Hickey, EdD, FNP, ANP, FAHA, FAAN Associate Professor of Nursing Columbia University Medical Center
9:50 – 10:40am	Precision Medicine, Oncology, and Genomics	Marilyn Hammer, PhD, DC, RN Director, Research & Evidence Based Practice, Dept. of Nursing Mount Sinai Hospital
10:40 – 11:30am	Precision Health in Transplantation	Bernice Coleman, RN, PhD Research Scientist Cedars-Sinai
11:30 – 11:40am	BREAK	
11:40 – 12:30	Panel and Q&A session with Dr. Hickey, Dr. Hammer, Dr. Coleman Translating Omics Science to Inform Clinical Care and Research	
12:30 – 1:00pm	LUNCH	
1:00 – 1:30pm	Company 1 - Training	TBD BioRad, Genomics Field Applications Unit
1:30 – 2:00pm	How-to: NanoString Technologies gene expression, copy number variation and miRNA analysis	Greg Gonye, PhD Sr. Field Applications Specialist & Technical Lead
2:00 – 2:30pm	Bioinformatics for Next Gen Sequencing	Sijung Yun, PhD Founder & CEO, Yotta Biomed, LLC
2:30 – 3:00pm	How-to: GeneDx genetic testing for rare diseases, certain cancers	Neeta Suryavanshi Corporate Account Manager
3:00-3:15 pm	Closing Remarks	