

NINR Boot Camp

Precision Health: From 'Omics' to Data Science

2016

Monday July 25, 2016
Introduction & Significance of Precision Health

Time:	Topics:
8:00–8:30am	Meet, Greet, Coffee
8:30–9:00am	Program Opener & Introductions
9:00 – 9:30am	Welcome & Program Overview
9:30–10:30am	Opening Keynote: Precision Health and Advancing Human Health
10:30 – 10:45am	BREAK
10:45 – 11:45am	Data Science and Nursing Research
11:45 – 12:45	Nutrigenomics and Precision Health
12:45 – 1:45pm	LUNCH
1:45 – 2:45pm	Pharmacogenomics and Precision Health
2:45 – 3:45pm	Integrated Personalized Omics
3:45 – 4:00pm	BREAK
4:00 – 5:00 pm	Clinical Big Data for Precision Health
5:00– 5:15pm	Questions / Closing Remarks

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Tuesday July 26, 2016
Clinical Omics

Time:	Topics:
8:00 – 8:30am	Coffee & Networking
8:30–9:30am	Genomics / Clinomics
9:30 –10:30am	Microbiomics
10:30 – 10:45 am	BREAK
10:45 – 11:45am	Nursing Informatics
11:45 – 12:45	Multi-Scale Data and Pharmacogenomics
12:45 – 1:45pm	LUNCH
1:45 – 3:15pm	Breakout Session 1: 1. Genomics/Clinomics 2. Microbiomics 3. Nursing Informatics 4. Pharmacogenomics
3:30– 5:00pm	Breakout Session 2: Bioinformatics / Big Data
5:00 – 5:15pm	Questions / Closing Remarks

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Wednesday July 27, 2016
Ethical, Legal, and Social Implications
and Hands-On Data Science Methods
Training

Time:	Topics:
8:00 – 8:30am	Coffee & Networking
8:30–9:30am	EHRs and a Cautionary Tale
9:30 –10:30am	Health Databases and Electronic Data Methods
10:30 – 10:45am	BREAK
10:45–11:45	Your Genome: Privacy and Security
11:45 – 12:45	Ethical Aspects in Clinical Research
12:45 – 1:45	LUNCH
1:45 – 3:00pm	Data Science: R and Statistics
3:00 – 3:15	BREAK
3:15 – 4:45pm	Statistical Methods for Functional Genomics
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:
8:00 – 8:30am	Coffee & Networking
8:30–9:30am	Clinical Decision Support and Analytics
9:30 –10:30am	Nutrigenomics, Metabolomics, and the Impact on Precision Health
10:30 – 10:45am	BREAK
10:45–11:45	Precision Health at the INOVA Health Care System
11:45 – 12:45	Precision Health: Clinical Molecular Genomics and Biobanking
12:45 – 1:45	LUNCH
1:45 – 3:00pm	Breakout Session 1: <ul style="list-style-type: none">• Clinomics• Nutrigenomics• The INOVA Model for Precision Health• Tour NIH Clinical Center
3:15 – 4:45pm	Breakout Session 2: <ul style="list-style-type: none">• Clinomics• Nutrigenomics• The INOVA Model for Precision Health• 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

Time:	Topics:
8:30-12:00	Funding Opportunities
12:00 - 1:00pm	LUNCH
1:00 - 3:30pm	Exhibits and Training
3:30 - 4:30pm	Closing Remarks