PGRN The Expanding Universe of Pharmacogenomics Sponsored by the Pharmacogenomics Research Network (PGRN)

Monday, October 17, 2016 Vancouver Convention Centre, West Building Rooms 109/110 Vancouver, Canada

Introductory Session		
1:00 – 1:15 pm	Welcome and Introductions Ronald Krauss, MD (Children's Hospital Oakland Research Institute)	
Moderators: Rona	ative Approaches for Pharmacogenomic Discovery ald Krauss, MD (Children's Hospital Oakland Research Institute) and Kathy Giacomini, (University of California San Francisco)	
1:15 – 1:55 pm	Mouse Models for Pharmacogenomic Discovery Karen Reue, PhD (University of California Los Angeles)	
1:55 – 2:35 pm	Functional Characterization of Gene Regulatory Elements Nadav Ahituv, PhD (University of California San Francisco)	
2:35 – 3:15 pm	Patient-Derived Induced Pluripotent Stem Cells in Cardiovascular Precision Medicine Joseph Wu, MD, PhD (Stanford University)	
3:15 – 3:30 pm	BREAK	
Moderators: Doug	nacogenomics in Drug Discovery glas Fowler, PhD (University of Washington) and Mignon Loh, MD (University of California Francisco)	
3:30 – 4:10 pm	Massively Parallel Combinatorial Genetic Perturbation Screening with CRISPR- Cas9 in Human Cells Cheryl Cui (Massachusetts Institute of Technology)	
4:10 – 4:50 pm	Applications of Human Genetics in Drug Discovery to Present and Future Indications Lon Cardon, PhD (GlaxoSmithKline)	
4:50 – 5:30 pm	Long noncoding RNA in statin pharmacogenomics Marisa Wong Medina, PhD (Children's Hospital Oakland Research Institute)	
5:30 – 5:45 pm	Closing Remarks	
5:45 – 6:30 pm	Reception and Poster Session	

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Session 3:	Technologies i	n Pharmacoo	genomic Studies
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Moderators: Scott Weiss, MD (Harvard University) and Steve Scherer, PhD (Baylor College of Medicine)

8:00 – 8:40 am

Data Integration Approaches to Novel Therapeutics
Nancy Cox, PhD (Vanderbilt University)

8:40 – 9:20 am

Methods of Integrating Data to Uncover Pharmacogenomic Phenotypes
Marylyn Ritchie, PhD (Penn State University)

9:20 – 10:00 am

Tissue-Specific Integrated View of Complex Human Disease

10:00 - 10:15 am BREAK

Session 4: Panel Discussion: Issues for Clinical Implementation of Pharmacogenomic Testing

Olga Troyanskaya, PhD (Princeton University)

Moderator: Mary Relling, PharmD (St. Jude Children's Research Hospital)

Panelists: Dan Roden, MD (Vanderbilt University/eMerge)

David Litwack, PhD (U.S. Food and Drug Administration)

Scott Weiss, MD (Harvard Medical School)

10:15 – 11:45 am Moderated Panel Discussion

11:45 – 1:00 pm Lunch Break (on your own)

Session 5: Pharmacogenetics in a Human Evolution Context

Moderator: Neil Risch, PhD (University of California San Francisco) and Sarah Tishkoff, PhD (University of

Pennsylvania)

1:00 – 1:05 pm	Introduction Neil Risch, PhD (University of California San Francisco)
1:05 – 1:35 pm	Influence of Ancestry on Pharmacogenomic Traits Stuart Scott, PhD (Icahn School of Medicine at Mount Sinai)
1:35 – 2:05 pm	Evolution of Drug Metabolizing Enzymes Silvia Fuselli, PhD (University of Ferrara)
2:05 – 2:35 pm	Impact of Ancestry and Natural Selection on African Genetic Diversity Sarah Tishkoff, PhD (University of Pennsylvania)
2:35 – 3:05 pm	Unexpected Impacts of Evolutionary Selection on Genes Relevant for Targeted Therapeutics in Cancer Geoffrey H. Siwo, PhD (IBM Research Africa)
3:05 – 3:30 pm	Panel Discussion of the Speakers