

PGRN Symposium at ASHG 2018
The Genomics of Drug Response from Discovery to Implementation

San Diego Convention Center
Room 6A

Day 1 Agenda
Monday, October 15, 2018

Introductory Session

1:00 – 1:15 pm **Welcome and Introductions**
Dan Roden (Vanderbilt University)

Session 1: The Role of Human Genetics in Drug Development from Target Identification to Clinical Trials

Moderators: Rochelle Long (NIGMS) and Jean-Claude Marshall (Pfizer)

1:15 – 1:55 pm **Rare Variants and Drug Target Discovery**
Alan Shuldiner (Regeneron)

1:55 – 2:35 pm **Using GWAS and Sequence Data to Identify and Validate Drug Targets**
Matt Nelson (GSK)

2:35 – 3:15 pm **Presentation from the Industry Pharmacogenomics Working Group (I-PWG)**
Jean-Claude Marshall (Pfizer)

3:15 – 3:30 pm **Break**

Session 2: Challenges and Opportunities in Pharmacogenetic Implementation

Moderators: Alan Shuldiner (Regeneron) and Henk-Jan Guchelaar (Leiden University)

3:30 – 4:10 pm **Collecting and Curating the Evidence for Pharmacogenetic Implementation: CPIC**
Mary Relling (St. Jude Children's Research Hospital)

4:10 – 4:50 pm **Implementation of Pre-emptive Pharmacogenomic Testing in the European Union: The U-PGx Consortium**
Henk-Jan Guchelaar (Leiden University)

4:50 – 5:30 pm **Implementation of Pharmacogenomic Testing for Minority/Special Populations**
Minoli Perera (Northwestern University)

5:30 – 5:45 pm **Closing Remarks**

5:45 – 7:30 pm **Reception and Poster Session** (Location: Sails Pavilion)

Day 2 Agenda

Tuesday, October 16, 2018

Session 3: Dual Genomes in Pharmacogenomics

Moderators: Ron Krauss (CHORI) and Kathy Giacomini (UCSF)

- 8:00 – 8:40 am The Microbiome and Pharmacogenomics**
Peter Turnbaugh (UCSF)
- 8:40 – 9:20 am The Cancer Genome and Pharmacogenomics**
Razelle Kurzrock (UCSD)
- 9:20 – 10:00 am Metabolome for Pharmacogenetics**
Amalio Telenti (The Scripps Research Institute)
- 10:00 – 10:15 am Break**

Session 4: Genomics and Precision Drug Therapy

Moderators: Joe Loscalzo (Harvard)

Panelists: Mary Relling (St. Jude Children's Research Hospital), George Patrinos (University of Patras), Charles Rotimi (NHGRI), Peter Turnbaugh (UCSF), Amalio Telenti (The Scripps Research Institute), Gert-Jan van Ommen (LUMC), Razelle Kurzrock (UCSD)

- 10:15 – 11:45 am Moderated Panel Discussion**
- 11:45 – 1:00 pm Lunch (on your own)**

Session 5: Pharmacogenomics: Rare Diseases and Rare Adverse Drug Reactions

Moderators: Munir Pirmohamed (University of Liverpool) and Jeffrey Kidd (University of Michigan)

- 1:00 – 1:10 pm Introductory Remarks**
Dan Roden (Vanderbilt University)

Part 1: Drug Development for Rare Genetic Diseases

- 1:10 – 1:40 pm Overview and Rare Neurological Diseases**
David Goldstein (Columbia)
- 1:40 – 2:10 pm Immune-Mediated Diseases**
Robert Plenge (Celgene)
- 2:10 – 2:30 pm Break**

Part 2: Immunopharmacogenomics

- 2:30 – 3:00 pm Immunopharmacogenomics and Adverse Drug Reactions**
Munir Pirmohamed (University of Liverpool)
- 3:00 – 3:30 pm Mechanisms in Immune-Mediated Drug Reactions: Beyond HLA alleles**
Elizabeth Phillips (Vanderbilt University Medical Center)
- 3:30 – 4:00 pm Panel Discussion on Rare Phenotypes and Immunopharmacogenomics and Closing Remarks**