

MEETING AGENDA

DAY 1 - THURSDAY, JUNE 20

All meetings will be held in the BRB Gaulton Auditorium. Meals and poster session will take place in the lobby.

7:45 - 8:45

Breakfast Provided (Additional seating is available on the 2nd floor in Rooms 252 and 253.)

8:45 - 9:00

Opening Remarks

Kelly Caudle, PharmD, PhD - St. Jude Children's Research Hospital

Session 1: Why PGx (Justification as to why we are all here)

Moderator: Kelly Caudle, PharmD, PhD

9:00 - 9:30

Physician's View: Stevens Johnson Syndrome

Teri Manolio, MD, PhD - National Human Genome Research

9:30 - 10:00

Stevens Johnson Syndrome and Implementation of HLA Testing

Sony Tuteja, PharmD, MS - Penn Center for Genomic Medicine, University of Pennsylvania

10:00 - 10:30

Patient's Representative View: Stevens Johnson Syndrome

Paul Anderson

10:30 - 10:50

Networking / Bathroom Break

Session 2: Implementation Strategies (Justification as to how we are doing this)

Moderator: James Hoffman, PharmD, MS

10:50 - 11:10

VA National Pharmacogenomics Program:

PGx Implementation in the Veterans Health Administration

Deepak Voora, MD - Department of Veterans Affairs

11:10 - 11:30

Implementing CYP3A5 and Tacrolimus

Amy Pasternak, PharmD - University of Michigan, College of Pharmacy

11:30 - 11:50

Implementation of Clinical Pharmacogenomics

Across a Multi-State Health System

Natasha Petry, PharmD, MPH - Sanford Health Imagenetics

11:50 - 12:20

State of the Art with Clinical Labs and Implementers:

A Panel Discussion

Speakers and Kristine Crews, PharmD - St. Jude Children's Research Hospital and Mark Dunnenberger, PharmD - Endeavor Health

MEETING AGENDA

12:20 - 1:30

Lunch provided / Networking (Additional seating is available on the 2nd floor in Rooms 252 and 253.)

Session 3: Regulatory Hurdles and the Path Forward

Moderator: Michelle Whirl-Carrillo, PhD - Stanford University

- 1:30 - 1:55 *Legislative Efforts in Pharmacogenomics*
Kristine Ashcraft, BS, MBA - YouScript
- 1:55 - 2:20 *Challenges and Opportunities in Regulating Pharmacogenomics*
Don Rule - Translational Software
- 2:20 - 2:45 *The All of Us Experience*
Phil Empey, PharmD, PhD - University of Pittsburgh
- 2:45 - 3:10 *Regulatory Hurdles and the Path Forward: How do we move forward?*

3:10 - 3:30

Networking / Bathroom Break / Poster Set-Up

Session 4: PGx Resources

Moderator: Marylyn Ritchie, PhD - University of Pennsylvania, Perelman School of Medicine

- 3:30 - 3:50 *The Pharmacogene Variation Consortium (PharmVar) -
New Content and Features*
Andrea Gaedigk, PhD - Children's Mercy Research Institute
- 3:50 - 4:10 *Clinical Pharmacogenetics Implementation Consortium (CPIC)*
Kelly Caudle, PharmD, PhD - St. Jude Children's Research Hospital
- 4:10 - 4:30 *Pharmacogenomics Knowledgebase (PharmGKB) and
Pharmacogenomics Clinical Annotation Tool (PharmCAT)*
Michelle Whirl-Carrillo, PhD - Stanford University
- 4:30 - 5:00 *Clinical Pharmacogenomics (ClinPGx) and Clinical Genome
Resource (ClinGen)*
Teri E. Klein, PhD - Stanford University

5:00 - 7:00

Posters and Happy Hour

Posters with even numbers will present from 5:00-5:45, and those with odd numbers will present from 5:45-6:30. Open poster session / networking time is from 6:30-7:00.

7:00 - ONWARDS

Dinner on own

MEETING AGENDA

DAY 2 - FRIDAY, JUNE 21

All meetings will be held in the BRB Gaulton Auditorium. Meals and poster session will take place in the lobby.

8:00 - 9:00

Breakfast Provided (Additional seating is available on the 2nd floor in Rooms 252 and 253.)

Session 5: Use of AI and LLMs to Improve Precision Health

Moderator: Teri E. Klein, PhD - Stanford University

9:00 - 9:30 *Leveraging Electronic Health Record Data for Targeted Detection of Cognitive Impairment*
Kyra O'Brien, MD - Penn Memory Center, University of Pennsylvania

9:30 - 10:00 *AI & Oncology: Managing the Tsunami of Medical Information*
David Penberthy, MD, MBA - University of Virginia

10:00 - 10:30 *Explainable AI for Health: Where We Are and How to Move Forward*
Su-In Lee, PhD - University of Washington

10:30 - 10:45

Networking / Bathroom Break

Session 6: Advancing Pharmacogenomics Education Across the Spectrum of Clinician Training

Moderator: Caroline Thorn, PhD

10:45 - 11:10 *Beginning at the Beginning: Preparing Students in Pharmacy and Medical Schools to Become Leaders in Pharmacogenomics*
Kristin Wiisanen, PharmD - Rosalind Franklin of Medicine and Science

11:10 - 11:35 *Equipping Residents and Fellows to Deliver the Future of Precision Medicine*
Kristine Crews, PharmD - St. Jude Children's Research

11:35 - 12:00 *Improving the Genomic Literacy of Healthcare Professionals Through the Inter-Society Coordinating Committee for Practitioner Education in Genomics (ISCC-PEG)*
Roseann Donnelly, PharmD, FCCP, BCPS -
Massachusetts College of Pharmacy and Health Sciences

12:00 - 1:00

Lunch Provided / Networking (Additional seating is available on the 2nd floor in Rooms 252 and 253.)

Session 7: Recent Developments from the Clinical Labs and EHR & Closing

Moderator: Andrea Gaedigk, PhD - Children's Mercy Research Institute

1:00 - 1:20 *AMP's Recommendations for Clinical Pharmacogenotyping Allele Selection*
Victoria Pratt, PhD, FACMG - Indiana University School of Medicine

1:20 - 1:40 *Development of In-house PGx Testing at Children's Mercy*
Laura Ramsey, PhD - Children's Mercy

1:40 - 2:00 *Using the EHR for PGx and Closing Remarks*
Marylyn Ritchie, PhD - University of Pennsylvania, Perelman School of Medicine

ABSTRACTS

01 - *Pharmacogenomic Implications of Hereditary Disease Genes*

Benjamin Duong, PharmD (1); Jordan Brady, MS, CGC (2); **Josiah Allen, PharmD** (2)

02 - *Assessing Knowledge and Attitudes Toward Pharmacogenetic Testing in Patients with Gastrointestinal Cancer*

Arravinth Anantharajah, M.S. (1), Raza Chaudhry, MS (2) , Mari Cayabyab, PharmD (3) , Glenda Hoffecker, PharmD (3) , Victoria Wittner, MPH (2) , Laura Conway, PhD, MS (2) , Ursina Teitelbaum, MD (1), Sony Tuteja, PharmD, MS (2)

03 - *Preemptive Return of Clinical Pharmacogenomic Results to Over 50,000 Individuals in a Population-scale Biobank: Phenotype and Actionable Medication Exposure Characteristics*

James L Martin, PharmD, MPH1,2, Kristy R Crooks, PhD1, 3, Casey S Greene, PhD1,3, Ashley Hansen, RN, BSN4, Emily C Hearst, MHSA1,4, Kaitlyn W Hess, MS, MLS(ASCP)CM,4, Natalie Johnson, PharmD4, David P Kao, MD1,3, Elizabeth L Kudron, MD, MPH1, 3, Yee Ming Lee, PharmD1, 2, Nicole L McDaniel, PharmD1, 2, Nicholas Rafaels, MS1, Elise L Shalowitz, MS1, Carolyn Swartz, RN4, Anna Tanaka, BA1,4, Katy Trinkley, PharmD, PhD1, 3, Sharon Vandenberg, RPh, MBA4, Christina L Aquilante, PharmD1, 2

04 - *Implementation of the RNPGx NGS Panel in Clinical Practice: About a Case with a Novel CYP2D7::CBYP2D6 Hybrid*

Jean-Christophe BOYER, Lucie Junilhon, Vincent Haufroid, Nicolas Picard and Léa Payen-Gay

05 - *Empowering Patients: Establishing a Pharmacist-Led Pharmacogenomics Clinic*

Allison W. Bragg, PharmD; Kayla M Thibodaux, PharmD, MBA Kristine R. Crews, PharmD; Alberto S Pappo; Cyrene E. Haidar, PharmD

06 - *Implementing DPYD/UGT1A1 Testing to Prevent Treatment Related Adverse Events (TRAEs) in Patients with Gastrointestinal (GI) Cancer: Results of a Pragmatic Implementation Trial*

Sony Tuteja¹, **Mari Cayabyab**², Glenda Hoffecker², Lisa A. Varughese¹, Jean D. Ndayishimiye¹, Victoria Wittner¹, Xingmei Wang³, Rachel Hatch², Donna Capozzi², Margaret Harr⁴, Avni Santani⁴, Hakon Hakonarson⁴, Ryan Massa⁵, Nevena Damjanov⁵, Nandi Reddy⁶, Randy Oyer⁶, Ursina R. Teitelbaum⁵

07 - *Introduction to The PROTECT-Rx Trial: Evaluating the Effectiveness of a Personalized Therapeutics Clinic Intervention on Drug-Drug Interactions and Drug-Gene Interactions*

Chen, Thomas and Ratain, Mark and O'Donnell, Peter

08 - *Early Lessons Learned from A Pharmacist-Led Virtual Pharmacogenetics Clinic*

Madeline Norris, Elizabeth Eddy, Eda Eken, Emely McKitrick, John G. Gums, Kristin Wiisanen, **Emily J. Cicali**

09 - *Opportunities for Pharmacogenomics in Pediatrics: Prescribing Trends of Psychiatric Medications with Pharmacogenomic Implications at a Multi-State Pediatric Health System*

Megan L Miller, Nathan D Seligson, Benjamin Q Duong, Josephine Elia, Shirin Hasan, Thomas Lacy, Kathryn V Blake, **Kelsey J Cook**

10 - *Impact of Pharmacogenomic Testing on Hospitalization Rates in a Real-World Dataset of Patients with Major Depressive Disorder*

Andria L. Del Tredici, PhD [1]; Devika Chawla, PhD [1]; Brady DeHart, PhD [2]; Alexander Gutin, PhD [1]; Pamela Morin, MBA [2]; Laura Becker, MS [2]; Julia Certa, MPH [2]; Katie Johansen Taber, PhD [1]; Holly L. Johnson, PhD [1]; Andrew A. Nierenberg, MD [3]