Utah Clinical Pharmacology and Pharmacometrics Workshop

Offered Jointly by University of Utah, Department of Pediatrics, Primary Children’s Hospital and American Association of Pharmaceutical Scientists, Rocky Mountain Discussion Group
August 9th through 11th, 2017

Registration is open for the Utah Clinical Pharmacology and Pharmacometrics Workshops (August 9-11, 2017) in Salt Lake City, Utah.

Day 1 Messy Data and Model Building: Methods, Tools and Techniques for Insightful Research
A great lineup of speakers will provide examples of tools and techniques to deal with messy data, including:

- **Dr. Joga Gobburu**, Professor, Dept. of Pharmacy Practice, Science, and Director of the Center for Translational Medicine at the University of Maryland School of Pharmacy
- **Dr. Tom Greene**, Professor, Chief, Division of Biostatistics, Dept. Internal Medicine and Dept. Population Health Sciences, University of Utah
- **Dr. Anne Kirchhoff**, Assistant Professor of Pediatrics and as an Investigator at the Huntsman Cancer Institute in the Cancer Control and Population Sciences Research Program, University of Utah
- **Dr. Greg Snow**, Sr. Statistician at Intermountain Healthcare - Intermountain Healthcare, Adjunct Faculty, Department of Statistics, Brigham Young University
- **Rene Enriquez**, Director at University of Utah, Pediatrics Data Coordinating Center, Dept. Pediatrics, University of Utah
- **Julia Silge**, Data Scientist at Stack Overflow
- **Dr. Fred Balch**, Associate Professor, Division of Pediatric Clinical Pharmacology, Dept. of Pediatrics, University of Utah
- **Dr. Catherine Sherwin**, Chief, Division of Clinical Pharmacology, Dept. of Pediatrics, University of Utah

Opportunity for registrants, students and trainees to present their own work and network at our poster and oral presentation and networking reception.

Day 2 Statistical Methods - R for Pharmacometricians and Pharmacologists

**Workshop Leaders: Dr. Fred Balch and Dr. Xiaoxi Liu**
Topics to be covered include:
- R Basics: The R Environment; The R-Studio Environment; R Data Objects; Data functions, Rstudio
- Basic data manipulation; Basic Graphics- (Traditional graphics, lattice graphics/GGPILOT, and PKgraph); The aggregate function, ddpby; Using R Functions and Scripts
• Introduction to Add-in Packages Add-ins: MASS, Hmisc, ggplot, lattice, WinBugs
• Combining Multiple Study Results: Meta-analysis
• Predictive Modeling: Why individualized medicine needs different techniques
• Implementing Causal Inference with R

Introduction to Add-in Packages  Tidyverse and its family
• Dr. Andrew Redd, Assistant Professor at the Division of Epidemiology, University of Utah

Day 3 Introductory Simcyp simulator training
Workshop Leaders: Dr. Catherine Sherwin, Dr. Xiaoxi Liu, Dr. Joseph Rower and Dr. Jahidur Rashid
This introductory training will include tutorials and hands-on sessions. Topics to be covered include:
• Introductory simulator training
• Data importing and drug exposure prediction
• PBPK model development: methodology and implementation
• Whole-body PBPK model development

Topics to be covered include:
• Introductory or specialised simulator training
• Focused workshops covering key topics, and current trends, in model-based drug development
• Professional guidance through the hands-on exercises, providing experience and familiarity with practical applications of the simulator
• Face-to-face support for internal Simcyp working groups

Conference Location:
Commander’s House, Fort Douglas
1965 De Trobriand Street
Building 620
Salt Lake City, UT 84112

Hotel Information:
University Guest House
Reservations: 801-587-1000
Toll-Free: 888-416-4075
http://www.universityguesthouse.com/University-Guest-House

Accommodation are available August 8th, 9th and 10th with a discount rate of $109.00 per night. When calling you'll need to mention the group name Clinical Pharmacology and Pharmacometrics Workshop Series.

Registration and Further Enquiries:  Registration is on a per workshop basis. The fee covers lecture materials, coffee/tea and lunch. You must register to participate. Registration is on a first come basis.
**Accreditation:** This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint providership of Primary Children’s Hospital and the Department of Pediatrics at the University of Utah School of Medicine. Primary Children’s Hospital is accredited by the ACCME to provide continuing medical education for physicians. AMA Credit: Primary Children’s Hospital designates this live activity for a maximum of 15.75 AMA PRA Category 1 CreditTM. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Target Audience:** Pediatricians, Physicians, Bioinformaticists, Biostatisticians, Physician Assistants, Nursing and Pharmacy Professionals and Pharmacology, Biomedical, and Statistical Graduate Students and other interested medical professionals.