

Multidisciplinary Benign Urology Research Day

Friday, April 26, 2019

Albert Eye Research Institute Auditorium, Duke University

Duke Multidisciplinary K12 Urologic Research Career Development Program (KURe)

- 8:00 AM Registration and Poster Viewing (Coffee, Tea, Light Breakfast)
- 8:30 AM **Welcome and Introductions:** Cindy Amundsen, MD, KURe PI and PD
- 8:40 AM **Moderator:** Monique Vaughan, MD, Urogynecology, Duke University
Keynote Speaker: John R. Kirby, PhD, Medical College Wisconsin
“Xenobiotic Disruption of the Microbiome Alters Host Physiology”
- 9:20 AM **Moderators:** Nazema Siddiqui, MD, MHS Urogynecology, Duke University
Alexis Dieter, MD, Urogynecology, University of North Carolina
Panel Discussion: “Microbiome Sciences Impact on Urology”
Panelists: A Lenore Ackerman, MD, PhD, Urology, Cedar Sinai Hospital
Lisa Karstens, PhD, Informatics & Epidemiology, Oregon Health & Science University
John R Kirby, PhD, Microbiology & Immunology, Medical College Wisconsin
Julia A Messina, MD, Medicine, Duke University
Neeraj “Neil” Surana, MD, PhD, Pediatrics, Duke University
- 10:10 AM **Poster Session-1 (odd numbered posters) and Refreshments**
- 11:10 AM **Moderator:** Jennifer Anger, MD, MPH Cedars Sinai
Oral Trainee Presentations:
- 11:10 AM **Best Clinical Science Abstract:** Hsin-Hsiao Scott Wang, MD, Boston Children’s Hospital
“Selecting Children with VUR who are most likely to Benefit from Antibiotic Prophylaxis: Application of Machine Learning to RIVUR Data”
- 11:25 AM **Best Basic Science Abstract:** Nathan Hirshman, BS, Duke University
“Cyclophosphamide-Induced Cystitis Triggers NLRP3-Dependent Neuroinflammation in the Hippocampus and Depression in Rats”
- 11:40 AM **Best Translational Science Abstract:** Zachary Cullingsworth, BS, Virginia Commonwealth Univ.
“Acute Dynamic Elasticity Revealed in Individuals with Healthy Bladders but not in Those with Detrusor Overactivity during Urodynamics”
- 12:00 PM **Lunch with the Experts**
- 1:00 PM **Poster Session-2 (even numbered posters) and Refreshments**
- 2:00 PM **Moderator:** Leonid Aksenov, BS Duke University School of Medicine
Keynote Speaker: Joseph Rigdon, PhD, Stanford University
“Heterogeneous Treatment Effects in Randomized Trials”
- 2:40 PM **Moderators:** Jim Hokanson, PhD, Biomedical Engineering, Duke University
Whitney Hendrickson, MD, Urogynecology, Duke University
Panel Discussion: “Individualizing Urologic Care with Data Science and Predictive Analytics”
Panelists: Benjamin Goldstein, PhD, Biostatistics and Bioinformatics, Duke University
Eric Jelovsek, MD, MMEd, Urogynecology, OB-GYN, Duke University
Ann Marie Navar, MD, PhD, Medicine, Duke University
Joseph Rigdon, PhD, Quantitative Sciences Unit, Stanford University
Lisa Wruck, PhD, DCRI, Duke University
- 3:30 PM **Presentation of Trainee Awards and Closing Remarks**

We Thank our Sponsors:

NIH-NIDDK K12DK100024 (KURe); Pelvic Medicine Research Consortium (PMRC); Duke Microbiome Center; Duke Departments of Biomedical Engineering, Obstetrics and Gynecology, and Surgery-Urology