



KURe and PMRC
Multidisciplinary Benign Urology
Research Day

Duke Multidisciplinary **K12 Urologic Research Career Development Program (KURe)**
Pelvic Medicine Research Consortium (PMRC)

Friday, April 28, 2017

7:30 AM to 3:30 PM

Fitzpatrick Center

Duke University Medical Center

Durham, North Carolina

 **Duke University School of Medicine**

- 7:30 - 8:10 AM Registration and Poster Viewing
Coffee, Tea, Light Breakfast
- 8:10 - 8:20 AM **Welcome and Introductions**, Cindy Amundsen, MD, KURe PI and PD
- 8:20 - 9:10 AM **Moderators:** Nazema Y. Siddiqui, MD, MHSc and Patrick C. Seed, MD, PhD
Keynote Speaker Suzanne Groah, MD; Georgetown University.
“Advancing Care of Urinary Symptoms and Urinary Tract Infection: A Winding Path to Discovery”
- 9:10 - 9:40 AM **Moderator:** Matthew O. Fraser, PhD
Oral Trainee Presentations
- 9:10 AM **Best Basic/Translational Abstract:** Eric Gonzalez, PhD Duke University
“Detrusor Underactivity in an Obese-Prone Rat Model”
- 9:25 AM **Best Clinical Science Abstract:** Ruiyang Jiang, MD Duke University
“The Utility of Charlson-Comorbidity, Van Wairaven and Rhee Index in Predicting post-operative Complications in Pediatric Urology”
- 9:40 - 10:30 AM **Poster Session-1 (odd numbered posters)** and Refreshments
- 10:30 -11:30 AM **Moderators:** Monique Vaughan, MD and Megan Bradley, MD
Panel Discussion “Inflammation/Infection/UTI”
Panelists: Jonathan Barasch, MD, PhD, Nephrology, Columbia University
Suzanne Groah, MD, Rehabilitative Medicine, Georgetown Univ.
Patrick C. Seed, MD, PhD, UTI/ Infectious Disease, Northwestern
Todd Purves, MD, AB, PhD, Urology, Duke University
Ann Stapleton, MD, Infectious Disease, University of Washington
- 11:30 -12:30 PM **Lunch with the Experts**
- 12:30 - 1:15 PM **Poster Session-2 (even numbered posters)**
- 1:15 - 2:15 PM **Moderators:** Brian Inouye, MD and Jim A. Hokanson, PhD
Panel Discussion “Bladder Outlet Obstruction/Benign Prostate Hyerplasia”
Panelists: Michael DiSanto, PhD, Biomed. Sci., Cooper Med. School of Rowan U.
Sam Eaton, MD, Urology, Duke University
Francis “Monty” Hughes, Jr. PhD, Urology, Duke University
Siobhan Sutcliffe PhD, Public Health Sciences, Washington University
Davis P. Viprakasit, MD, FACS; Urology, UNC Chapel Hill
- 2:15 - 2:25 PM **Break**
- 2:25 - 2:30 PM **Presentation of Trainee Awards**, Matthew O. Fraser, PhD
- 2:30 - 3:20 PM **Moderators:** Stephanie Sexton, MD and R. Ann Word, MD
Keynote Speaker Michael DiSanto, PhD; Cooper Medical School of Rowan Univ.
“Mechanistic Basis for Lower Urogenital Smooth Muscle Remodeling in Response to Bladder Outlet Obstruction”
- 3:20 - 3:30 PM **Conclusions**

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This conference is supported by grant K12DK100024 from the NIDDK Duke Multidisciplinary **K12 Urologic Research Career Development Program (KURe)**

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Anthony Visco, MD
Kevin Weinfurt, PhD
R. Ann Word, MD

Distinguished Judges**Oral Presentation Awards:**

KURe Advisory Board

Poster Presentation Awards:

Suzanne Groah, MD, MSPH
Michael DiSanto, PhD
Johnathan Barasch, MD, PhD
Sam Eaton, MD
Francis Hughes, Jr., PhD
Patrick C. Seed, MD, PhD
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Ann Stapleton, MD
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Laitoya R. Pittman (KURe Staff Assistant)

Trainee Oral Presentation of the Best Basic/Translational Science Abstract (O-1)

Detrusor Underactivity in an Obese-Prone Rat Model

Gonzalez, Eric J and Grill, Warren M.

Duke University, Department of Biomedical Engineering, Durham, NC

Research Area: Urodynamics, Voiding Dysfunction/Urinary Retention

Trainee Oral Presentation of the Best Clinical Science Abstract (O-2)

The Utility of Charlson Comorbidity, Van Walraven, and Rhee Index in Predicting Post-operative Complications in Pediatric Urology

¹Ruiyang Jiang, MD, ²Steven Wolf, MS, ¹J. Todd Purves, MD, PhD, ¹John S. Wiener, MD, and ¹Jonathan C. Routh, MD, MPH

¹Division of Urologic Surgery, Duke University Medical Center, Durham, NC

²Department of Biostatistics and Bioinformatics, Duke University Medical Center, Durham, NC

Research Area: Clinical Outcomes Research, Health Sciences Research, Pediatric Urology

Trainee (P-1)

Collaboration between Two Distinct Rab Small GTPase Trafficking Circuits to Mediate Bacterial Clearance from the Bladder Epithelium

Wu, Jianxuan^{1,6}; Miao, Yuxuan^{2,6}; Bist, Pradeep^{5,6}; Zhao, Qing⁴; Li, Qi-jing¹; Abraham, Soman N^{1,2,3,5}
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Research Area: Infections of the Urinary Tract

(P-2)

Therapeutic Exploitation of a Urogenital Parasite-Derived Host Modulatory Protein for Ifosfamide-Induced Hemorrhagic Cystitis and Resiniferatoxin-Induced Bladder Pain

^{1,2}Hsieh, Michael H; ¹Mbanefo, Evaristus C; Pennington, ³Luke F; ⁴Alouffi, Abdulaziz; Heery, ⁵David M; ³Jardetzky, Theodore; ⁴Falcone, Franco H

¹Biomedical Research Institute, Rockville, MD, USA; ²The George Washington University, Washington, D.C., USA; ³Stanford University School of Medicine, Stanford, CA, USA; ⁴School of Pharmacy, Division of Molecular Therapeutics and Formulation, University of Nottingham, Nottingham, UK; ⁵School of Pharmacy, Division of Medicinal Biology and Chemistry, University of Nottingham, Nottingham, UK;

Research Area: Bladder Inflammation, Infections of the Urinary Tract, Interstitial Cystitis/Painful Bladder Syndrome (IC/PBS), Overactive Bladder (OAB), Voiding Dysfunction/Urinary Retention

Trainee (P-3)

Does a Recent Urinary Tract Infection Increase the Risk of Post-injection Urinary Tract Infection After Onabotulinum Toxin A?

Bickhaus, Jennifer A¹, Bradley, Megan S¹, Amundsen, Cindy L¹, Visco, Anthony G¹, Truong, Tracy², Li, Yi-Ju², Siddiqui, Nazema Y¹

¹Duke University, Obstetrics and Gynecology, Durham, North Carolina

²Duke University, Biostatistics and Bioinformatics, Durham, North Carolina

Research Area: Infections of the Urinary Tract

Trainee (P-4)

Early Post-injection Urinary Tract Infection Predicts Recurrent Urinary Tract Infections After Onabotulinum Toxin A

Bickhaus, Jennifer A¹, Bradley, Megan S¹, Amundsen, Cindy L¹, Visco, Anthony G¹, Truong, Tracy², Li, Yi-Ju², Siddiqui, Nazema Y¹

¹Duke University, Obstetrics and Gynecology, Durham, North Carolina

²Duke University, Biostatistics and Bioinformatics, Durham, North Carolina

Research Area: Infections of the Urinary Tract

Trainee (P-5)

Horizontal Gene Transfer of Antibiotic Resistance Genes in the Human Urinary Microbiome in Health and Disease

Sysoeva, Tatyana A

Department of Biomedical Engineering, Duke University, Durham, NC

Research Area: Infections of the Urinary Tract

Trainee (P-6)

A Pilot Genome-Scale DNA methylation Study in Women with Interstitial Cystitis/Bladder Pain Syndrome

Bradley, Megan S; Duke University, Department of Obstetrics & Gynecology, Durham, NC
Burke, Emily E; Duke University, Department of Biostatistics and Bioinformatics, Durham, NC
Grenier, Carole; Duke University, Department of Obstetrics & Gynecology, Durham, NC
Amundsen, Cindy L; Duke University, Department of Obstetrics & Gynecology, Durham, NC
Murphy, Susan K; Duke University, Department of Obstetrics & Gynecology, Durham, NC
Siddiqui, Nazema Y; Duke University, Department of Obstetrics & Gynecology, Durham, NC

Research Area: Interstitial Cystitis/Painful Bladder Syndrome (IC/PBS)

Trainee (P-7)

Standardization of RNA Processing from Urine Sediment in a Clinical Setting

Bradley, Megan S; Duke University, Department of Obstetrics and Gynecology, Durham, NC
Boudreau, Marie; Duke University, Department of Obstetrics and Gynecology, Durham, NC
Grenier, Carole; Duke University, Department of Obstetrics and Gynecology, Durham, NC
Huang, Zhiquing; Duke University, Department of Obstetrics and Gynecology, Durham, NC
Murphy, Susan K; Duke University, Department of Obstetrics and Gynecology, Durham, NC
Siddiqui, Nazema Y; Duke University, Department of Obstetrics and Gynecology, Durham, NC

Research Area: Female Pelvic Medicine

(P-8)

Prostaglandin E2 Installation as an Overactive Bladder Model in Cats

CL Langdale¹, JA Hokanson¹, A Sridhar⁵, WM Grill^{1,2,3,4}

Duke University, Departments of Biomedical Engineering¹, Electrical and Computer Engineering²,
Neurobiology³, and Surgery⁴, Durham, NC

GlaxoSmithKline, Bioelectronics R&D⁵, Stevenage, UK

Research Area: Overactive Bladder (OAB)

Trainee (P-9)

PSYCHOSOCIAL FACTORS, SLEEP, AND PHYSICAL FUNCTION IN WOMEN WITH LOWER URINARY TRACT SYMPTOMS

Nazema Y. Siddiqui, MD, MHS; Anne P. Cameron, MD; David Cella, PhD; Catherine S. Bradley, MD, MSCE; H. Henry Lai, MD; Margaret E. Helmuth, MA; Jonathan Wiseman, MS; James W. Griffith, PhD; Cindy L. Amundsen, MD; Kimberly S. Kenton, MD; J. Quentin Clemens, MD; Karl J. Kreder, MD, MBA; Robert M. Merion, MD; Ziya Kirkali, MD; and John W. Kusek, PhD
for the Symptoms of Lower Urinary Tract Dysfunction Research Network (LURN)

Research Area: Female Pelvic Medicine, Overactive Bladder (OAB)

Trainee (P-10)

Prostatic radiation therapy leads to minor vascular impairments in the internal pudendal artery and the penis of irradiated rats

Michael R. Odom¹, Shelby A. Powers¹, Kathleen Ashcraft², Bridget F. Koontz², Johanna L. Hannan¹

¹Department of Physiology, Brody School of Medicine, East Carolina University, Greenville, NC;

²Department of Radiation Oncology, Duke Cancer Institute, Durham, NC

Research Area: Sexual Dysfunction

Trainee (P-11)

Characterization of Sensory Pudendal Nerve Stimulation in an Anesthetized Rat Model

Hokanson, James A.; Langdale, Christopher L.; Grill, Warren M.
Duke University, Department of Biomedical Engineering, Durham, NC
Research Area: Overactive Bladder (OAB)

Trainee (P-12)

Inflammasome Activation Early in the Development of Diabetic Bladder Dysfunction

Brian M Inouye, MD^{1*}, Francis M Hughes, PhD¹, Robin Lütolf, BS¹, Clay Rouse, DVM², Wen-Chi Foo, MD³, J Todd Purves, MD, PhD¹

¹Division of Urology, Department of Surgery. Duke University Medical Center. Durham, NC.

²Division of Laboratory Animal Resources. Duke University. Durham, NC.

³Department of Pathology. Duke University Medical Center. Durham, NC.

Research Area: Bladder Inflammation, Urodynamics, Voiding Dysfunction/Urinary Retention, Diabetic uropathy

Trainee (P-13)

Aberrant bladder reflexes can drive hind limb locomotor activity following complete suprasacral spinal cord injury

Brian M. Inouye¹, Jillene M. Brooks², Danielle J. Degoski², Francis M. Hughes Jr¹, J. Todd Purves¹, Matthew O. Fraser^{1,2}

¹Duke University Medical Center, Division of Urology, Durham, NC

²Institute for Medical Research, Durham Veterans Affairs Medical Center, Durham, NC

Research Area: Neurogenic Bladder, Urodynamics

(P-14)

Inflammatory cytokine interleukin 1 beta increases apoptosis in neurons dissociated from the pelvic ganglia

Jennifer C. McMains¹, Elena S. Pak², Robin Lütolf³, Francis M. Hughes Jr³, J. Todd Purves³, Johanna L. Hannan²

¹College of Health and Human Performance, East Carolina University

²Department of Physiology, Brody School of Medicine

³Department of Urology, Duke University Medical Center

Research Area: Bladder Inflammation, Bladder Outlet Obstruction

(P-15)

Pelvic Radiation Therapy Impaired Neuritogenesis and Increased Apoptosis of Nitrergic Neurons from the Major Pelvic Ganglia

Megan A. Moomaw¹, Elena S. Pak¹, Bridget F. Koontz², Johanna L. Hannan¹

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²Department of Radiation Oncology, Duke Cancer Institute, Durham, NC

Research Area: Sexual Dysfunction

(P-16)

Bowel and Bladder Management and Continence Outcomes in Adults with Spina Bifida: Results from the National Spina Bifida Patient Registry: 2009-15

John S. Wiener MD¹, Kristina D. Suson MD², Jonathan Castillo MD, MPH³, Jonathan C Routh MD MPH¹, Stacy Tanaka MD⁴, Tiebin Liu MSPH⁵, Elisabeth Ward RN, MPH^{5,6}, Judy Thibadeau RN, MN⁵, David Joseph MD⁷

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Research Area: Clinical Outcomes Research, Congenital Urogenital Anomalies, Health Sciences Research, Neurogenic Bladder, Pediatric Urology, Urinary Reconstruction

Trainee (P-17)

REDUCTION OF GENITAL HIATUS SIZE DECREASES ANATOMIC FAILURE AFTER NATIVE TISSUE VAGINAL VAULT SUSPENSION

Monique H. Vaughan MD*, Nazema Y. Siddiqui MD, MHSc*, Laura K. Newcomb MD*, Alison C. Weidner*, Amie Kawasaki MD*, Megan S. Bradley MD*

* Duke University Health System, Department of Obstetrics and Gynecology, Durham, NC

Research Area: Pelvic organ prolapse

Trainee (P-18)

Effect of Increased Fluid Intake on 24-hour Urinary pH in Stone Formers with Low Urine Volume and Low Urinary pH

Westin R Tom¹, Daniel A Wollin², Leah G Davis², Eugene Cone², Michael E Lipkin², Glenn M Preminger²

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2. Duke University Medical Center, Division of Urologic Surgery, Durham, NC

Research Area: Nephrolithiasis

Trainee (P-19)

Cuff Downsizing has Good Outcomes in the Management of Urethral Subcuff Atrophy After Artificial Urinary Sphincter

Doreen Chang^a, Stephanie J. Sexton^b, Andrew C. Peterson^c, Ramiro J. Madden-Fuentes^d

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Research Area: Urinary Reconstruction

Trainee (P-20)

The Utility of Charlson Comorbidity, Van Walraven, and Rhee Index in Predicting Post-operative Complications in Pediatric Urology

¹Ruiyang Jiang, MD, ²Steven Wolf, MS, ¹J. Todd Purves, MD, PhD, ¹John S. Wiener, MD, and ¹Jonathan C. Routh, MD, MPH

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²Department of Biostatistics and Bioinformatics, Duke University Medical Center, Durham, NC

Research Area: Clinical Outcomes Research, Health Sciences Research, Pediatric Urology

Trainee (P-21)

Growth Hormone-Releasing Hormone Antagonists Exert Multiple Beneficial Effects in a Rat Model of Non-Bacterial ProstatitisPetra Popovics^{a,d}, Andrew V. Schally^{a,b,c,d,e} and Ferenc G. Rick^{a,f}

^aVeterans Affairs Medical Center and South Florida Veterans Affairs Foundation for Research and Education, Miami, FL; University of Miami, Miller School of Medicine, ^bDepartment of Pathology, Department of Medicine, ^cDivisions of Hematology/Oncology, ^dEndocrinology and ^eCardiovascular Diseases, Miami, FL; ^fFlorida International University, Herbert Wertheim College of Medicine, Department of Urology, Miami, FL

Research Area: Benign Prostate Hyperplasia, Prostatic Inflammation

Trainee (P-22)

REPORTING OF STATISTICAL METHODS IN RANDOMIZED CONTROLLED TRIALS IN THE UROLOGICAL LITERATURE: PROGRESS AND OPPORTUNITYEugene B Cone MD^{1,2}, Vikram M. Narayan MD³, Daniel W. Smith MD³, Philipp Dahm MD, MHS^{3,4}, Charles D. Scales Jr MD, MSHS^{1,2}

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Research Area: Health Sciences Research

Trainee (P-23)

Assessing Lower Urinary Tract Symptoms in Children with DiabetesKelly, Maryellen S¹; Routh, Jonathan C¹; Maciejewski, Matthew²

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²Duke University, Division of General Internal Medicine, Department of Medicine, Durham, NC

Research Area: Pediatric Urology

(P-24)

Bladder fibrosis during outlet obstruction is triggered through the NLRP3 inflammasome and the production of IL-1 β

Francis M. Hughes, Jr., Stephanie Sexton, Vihasa Govada, and J. Todd Purves

Duke University Medical Center, Department of Surgery, Division of Urology, Durham, NC

Research Area: Bladder Inflammation, Bladder Outlet Obstruction

(P-25)

NLRP3/IL-1 β mediates Denervation During Bladder Outlet Obstruction in Rats

Robin Lütolf, Huixia Jin, Francis M. Hughes, Jr., J Todd Purves

ETH Zurich, Dept. Health Sciences and Technology, Zurich, Switzerland; Duke University Medical Center, Dept Surgery, Div Urology, Durham, NC

Research Area: Bladder Inflammation, Bladder Outlet Obstruction

Trainee (P-26)

Detrusor Underactivity in an Obese-Prone Rat Model

Gonzalez, Eric J and Grill, Warren M.

Duke University, Department of Biomedical Engineering, Durham, NC

Research Area: Voiding Dysfunction/Urinary Retention

Trainee (P-27)

Alternate Dissection of the Male Urogenital System with Evidence of a Direct Inguinal Hernia for Plastination and Use in Medical Education

Ruthig, Victor A^{1,2}; Labrash, Steven²; Lozanoff, Scott²; Ward, Monika A²

¹ Duke University Medical Center, Department of Cell Biology, Durham, NC.

² John A. Burns School of Medicine, University of Hawai'i at Mānoa, Department of Anatomy, Biochemistry & Physiology, Institute for Biogenesis Research, Honolulu, HI.

Research Area: Congenital Urogenital Anomalies, Medical Education/Training

Trainee (P-28)

Randomized Controlled Trial to Assess the Impact of Intraurethral Lidocaine on Urodynamic Voiding Parameters

Kisby CK¹, Gonzalez EJ², Visco AG¹, Amundsen CL¹, Grill WM².

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Research Area: Urodynamics, Voiding Dysfunction/Urinary Retention

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