

# Duke Multidisciplinary Benign Urology Research Symposium

April 28 and 29, 2022 (1-5 PM)

Duke Multidisciplinary K12 Urologic Research Career Development Program (KURe)

## THURSDAY APRIL 29, 2022

12:50 pm **CHECK IN:** Test your audio, video, chat box, and raising hands for asking questions.  
Obtain the link to the Symposium Program Booklet

1:00 pm **WELCOME AND INTRODUCTIONS:**  
Cindy L. Amundsen, MD, Duke KURe PI and Program Director

1:10 pm **ORAL PLATFORM PRESENTATIONS:**  
Moderator: Todd Purves, MD, KURe Mentor

***Basic Science Award*** ***Matrix-Metalloproteinase-9 plays a key role in the secretion of nerve growth factor from rat bladder cells***

Aya Hajj, MSc, McGill University, Montreal, Quebec

***KURe Scholar*** ***Transcriptome analysis of mouse dorsal root ganglia following recurrent urinary tract infection reveals potential therapeutic targets for pain relief***

Byron Hayes, PhD, Pathology, Duke University

***Clinical Science Award*** ***Rural for-profit hospitals are associated with higher reported prices for ureteroscopy with laser lithotripsy among commercially insured patients***

Ian Berger, MD, MSHP, Surgery, Division of Urology, Duke University

1:55 pm **ORAL ABSTRACT PRESENTATIONS – Concurrent Sessions**

**Session A: Clinical Outcomes & Health Services Research**

Moderators: Jonathan Routh, MD, MPH, KURe Scholar Alumnus  
Hayley Premo, BS, Medical Student

**Session B: Voiding Dysfunction & Underactive Bladder**

Moderators: Gabrielle McNary, MD, Urology Resident  
Karl Kreder, MD, MBA, KURe Advisory Committee

**Session C: Nephrolithiasis & Infection**

Moderators: Derek Ho, PhD, KURe Scholar Alumnus  
Charles Scales, Jr., MD, MSHS, KURe Mentor

3:10 pm **BREAK**

3:20 pm **CHRONIC UROLOGIC PAIN DISORDER KEYNOTE SPEAKER:**

J. Curtis Nickel MD, FRCSC, Professor of Urology, Queen's University, Kingston, Ontario

***Managing Urologic Chronic Pelvic Pain Syndromes: Re-evaluating Old Treatments in New Paradigms***

Moderator: Cassandra Kisby, MD; KURe Scholar

4:00 pm **PANEL DISCUSSION: CHRONIC UROLOGIC PAIN DISORDERS**

Moderators: Byron Hayes, PhD, KURe Scholar

Anissa Cervantes, BS, Medical Student

**Panelists:**

Michael Chancellor, MD - Director of Neurourology, William Beaumont Hospital  
Susan Lutgendorf, PhD - Professor, Psychological and Brain Sciences, Univ. of Iowa  
J. Curtis Nickel MD - Professor of Urology, Queen's Univ. at Kingston Canada  
Andrew Schrepf, PhD - Professor, Anesthesiology, University of Michigan

4:50 pm **CLOSING & PREVIEW OF FRIDAY EVENTS:**  
Cindy L. Amundsen, MD, Duke KURe PI and Program Director

5:00 pm **THURSDAY ADJOURNMENT**

**FRIDAY APRIL 29, 2022**

11:30 am **SMALL GROUP DISCUSSIONS WITH EXPERTS** (signup required)

12:50 pm **CHECK IN:** Test your audio, video, chat box, and raising hands for asking questions.  
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1:00 pm **WELCOME AND INTRODUCTIONS:**  
Cindy L. Amundsen, MD, Duke KURe PI and Program Director

1:10 pm **ORAL PLATFORM PRESENTATIONS:**  
Moderator: Jennifer Anger, MD, KURe Advisory Committee

KURe Scholar ***Resistance of urinary microbiome: urinary lactobacilli vary in ability to inhibit uropathogens***

Tanya Sysoeva, PhD, Univ. of Alabama, KURe Scholar Alumna

Translational Science Award ***Specialized proresolving mediators reverse effects of chronic inflammation in diabetic bladder dysfunction***

Anissa Cervantes, BS, Duke University

KURe Scholar ***Regenerative medicine approach to augment surgical repair of genitourinary injuries***

Cassandra Kisby, MD, Division of Urology, Duke University

1:55 pm **ORAL ABSTRACT PRESENTATIONS – Concurrent Sessions**

**Session D: Overactive Bladder**

Moderators: Jim Hokanson, PhD, KURe Scholar Alumnus  
Petra Popovics, PhD, Previous KURe Symposium Awardee

**Session E: Neurourology**

Moderators: Maryrose Sullivan, PhD, KURe Advisory Committee  
Ian Berger, MD, MSHP, Urology Resident

**Session F: Urologic Development & Reconstruction**

Moderators: Matthew Barber, MD, MHS, Duke, KURe Advisory Committee  
Leonid Aksenov, MD, Duke, Previous KURe Symposium Awardee

3:10 pm **BREAK**

3:20 pm **SCIENCE OF THE UNDERACTIVE BLADDER KEYNOTE SPEAKER:**  
Professor Karl-Dietrich Sievert, MD PhD, FACS, FRCS, Chair, Urology Department,  
Klinikum Lippe, Clinic of the University of Bielefeld

***Future directions in research and clinical application for patients with underactive bladder***

Moderator: Doug Luchristt, MD, MPH, Previous KURe Symposium Awardee

4:00 pm

**PANEL DISCUSSION: SCIENCE OF THE UNDERACTIVE BLADDER**

Moderators: Eric Gonzalez, PhD, KURe Scholar Alumnus and Michael Odom, PhD, KURe Scholar

**Panelists:**

Lori Ann Birder, PhD - Professors, Renal - Electrolyte Division, University of Pittsburgh

Michael Chancellor, MD - Director of Neurourology, William Beaumont Hospital

Warren Grill, PhD - Professor, Biomedical Engineering, Duke University

Karl-Dietrich Sievert, MD PhD - Professor Urology, Detmold, Germany

4:50 pm

**PRESENTATION OF TRAINEE AWARDS AND CLOSING REMARKS**

Friederike L. Jayes, DVM, PhD, Duke KURe Program Coordinator