



**KURe and PMRC**  
**Multidisciplinary Benign Urology**  
**Research Day**

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

**Friday, April 29, 2016**

**8:00 AM to 2:00 PM**

**Searle Center**

**Duke University Medical Center**

**Durham, North Carolina**

 **Duke University School of Medicine**

**KURe and PMRC Multidisciplinary Benign Urology Research Day**

- 7:30 - 8:00 AM Registration and Poster Set-up  
Coffee, Tea, Light Breakfast
- 8:00 - 8:10 AM Welcome and Introductions, **Cindy Amundsen**, MD, KURe PI and PD
- 8:10 - 9:00 AM Moderators: **Matt Fraser**, PhD and **Cindy Amundsen**, MD  
**Keynote Speaker Mark Zeidel, MD,**  
*Urology Developmental Centers Program Beth Israel Deaconess  
Medical Center*  
***Neural Control of Bladder Function:  
From Urothelium to Brainstem to Forebrain***
- 9:00 - 9:30 AM Moderators: **Ann Word**, MD and **Maggie Kuchibhatla**, PhD  
**Oral Presentations** (selected from submitted abstracts)
- 9:00 AM **Michael Odom**, BS, East Carolina University  
***Characterization of the Proximal and Distal Rat Internal  
Pudendal Artery: Contrasting Morphology, Contraction,  
Relaxation and Neurotransmitter Release***
- 9:15 AM **Eugene Cone**, MD, Duke University  
***Disproportionate Use of Inpatient Care by Older Adults  
with Urinary Stone Disease***
- 9:30 - 9:45 AM **Break/Refreshments**
- 9:45 - 10:45 AM Moderators: **Tony Visco**, MD and **Pat Seed**, MD, PhD
- 9:45 AM **Adam Klausner**, MD, Virginia Commonwealth University  
***Urodynamics 2.0: Time for an Upgrade***
- 10:15 AM **Jon Routh**, MD, Duke University  
***Comparative Effectiveness Research in Pediatric Urology***
- 10:45 - 11:45 AM **Poster Session** and Refreshments
- 11:45 - 1:15 PM Moderators: **Glenn Preminger**, MD and **Kevin Weinfurt**, PhD
- 11:45 AM **Johanna Hannan**, PhD, East Carolina University  
***Erectile Dysfunction Pipe Dreams***
- 12:15 PM Presentation of Awards
- 12:25 PM **Keynote Speaker: William A. Ricke, PhD,**  
*Urology O'Brien Centers Program, University of Wisconsin*  
***Hormonal Regulation and Fibrosis in the Lower Urinary Tract***
- 1:15 - 2:00 PM **Networking Lunch**  
**Additional poster viewing**

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## Acknowledgements

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



### KURe Advisory Board

Stephen J. Freedland, M.D.  
John P. Gearhart, M.D.  
Maragatha Kuchibhatla, Ph.D.  
Glenn M. Preminger, M.D.  
Patrick C. Seed, MD, PhD  
Anthony Visco, M.D.  
Kevin Weinfurt, Ph.D.  
R. Ann Word, M.D.

### Distinguished Judges

**Oral Presentation Finalists:** KURe Advisory Board

**Poster Presentation and Oral Presentation Awards:**

Johanna Hannan, PhD  
Adam Klausner, MD  
William A. Ricke, PhD  
Jon Routh, MD  
Mark Zeidel, MD

### 2016 Research Day Organizing Committee

Cindy L. Amundsen, MD (KURe PI and Program Director)  
Matthew O. Fraser, PhD. (PMRC Director)  
Friederike L. Jayes, DVM, PhD (KURe Program Coordinator)  
Mimi Coker, MBA, RAA, AGM (Grants Administrator)  
Laitoya R. Pittman (KURe Staff Assistant)

**Trainee Competition (O-1)**

**Characterization of the Proximal and Distal Rat Internal Pudendal Artery: Contrasting Morphology, Contraction, Relaxation and Neurotransmitter Release**

Odom, Michael R; Hannan, Johanna L

East Carolina University, Physiology Department, Greenville, NC

**Research Area:** Sexual Dysfunction

**Trainee Competition (O-2)**

**Disproportionate use of Inpatient Care by Older Adults with Urinary Stone Disease**

Cone, Eugene B<sup>1</sup>; Hammill, Bradley G<sup>1</sup>; Kaplan, Adam G<sup>1</sup>; Dale, Joanne<sup>1</sup>; Routh, Jonathan C<sup>1</sup>; Lipkin, Michael E.<sup>1</sup>; Preminger, Glenn M<sup>1</sup>; Schmader, Kenneth E<sup>2</sup>; Scales, Charles D<sup>1</sup>

<sup>1</sup>Div of Urology, Dept of Surgery, Duke University Medical Center, Durham NC;

<sup>2</sup>Duke University, Division of Geriatrics; GRECC, Durham VAMC

**Research Area:** Clinical Outcomes Research, Health Sciences Research, Nephrolithiasis,

**Trainee Competition (P-1)**

**Urologic Data on Adults with Spina Bifida: an Analysis from Two Large Clinics**

Young, Brian J<sup>1</sup>; Shepard, Courtney L<sup>2</sup>; Joseph, David B<sup>3</sup>; Routh, Jonathan C<sup>1</sup>; Wiener, John S<sup>1</sup>

<sup>1</sup>Duke University, Division of Urology, Durham, NC; <sup>2</sup>University of Michigan, Department of Urology, Ann Arbor, MI; <sup>3</sup>University of Alabama at Birmingham, Department of Urology, Birmingham, AL

**Research Area:** Pediatric Urology

**Trainee Competition (P-2)**

**Estimating the Economic Impact of Spina Bifida in the United States**

Wang, Hsin-Hsiao S; Tejwani, Rohit; Young, Brian J; Purves, Jacob T; Wiener, John S; Routh, Jonathan C

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

**Research Area:** Pediatric Urology

**Trainee Competition (P-3)**

**Repeat Procedure Rates for Open and Endoscopic Outcomes are Similarly High After Pediatric Bladder Stone Surgery**

Wang, Hsin-Hsiao S; Tejwani, Rohit; Young, Brian J; Purves, Jacob T; Wiener, John S; Routh, Jonathan C

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

**Research Area:** Clinical Outcomes Research, Pediatric Urology

**Trainee Competition (P-4)**

**Management of Bladder Stones is More Morbid in Spina Bifida Patients: a National Population-Level Analysis**

Wang, Hsin-Hsiao S; Tejwani, Rohit; Young, Brian J; Purves, Jacob T; Wiener, John S; Routh, Jonathan C

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

**Research Area:** Clinical Outcomes Research, Pediatric Urology

**Trainee Competition (P-5)**

**Open Versus Minimally-Invasive Surgery in Ureteroneocystostomy: a Nationwide Analysis**

Wang, Hsin-Hsiao S; Tejwani, Rohit; Wiener, John S; Routh, Jonathan C

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

**Research Area:** Clinical Outcomes Research, Pediatric Urology

**Trainee Competition (P-6)**

**Open vs. Minimally Invasive Surgical Approaches: Associated Post-Operative Complications of Pediatric Urologic Surgery in the United States**

Tejwani, Rohit V<sup>1</sup>; Young, Brian J<sup>2</sup>; Wang, Hsin-Hsiao S<sup>2</sup>; Wolf, Steven<sup>3</sup>; Wiener, John S<sup>2</sup>; Routh, Jonathan C<sup>2</sup>

<sup>1</sup>Duke University School of Medicine, Durham, NC; <sup>2</sup>Duke University Medical Center, Division of Urologic Surgery, Durham, NC; <sup>3</sup>Department of Biostatistics and Bioinformatics, Durham, NC

**Research Area:** Health Sciences Research, Pediatric Urology

**Funding:** NIH Grant K08-DK100534

**Trainee Competition (P-7)**

**Increased Pediatric Sub-specialization is Associated with Decreased Surgical Complication Rates for Inpatient Pediatric Urology Procedures**

Tejwani, Rohit V<sup>1</sup>; Wang, Hsin-Hsiao S<sup>1</sup>; Greene, Nathaniel H<sup>2</sup>; Wolf, Steven<sup>3</sup>; Wiener, John S<sup>1</sup>; Routh, Jonathan C<sup>1</sup>

<sup>1</sup>Duke University Medical Center, Division of Urologic Surgery, Durham, NC;

<sup>2</sup>Duke University Medical Center, Division of Pediatric Anesthesia, Durham, NC; Duke University,

<sup>3</sup>Department of Biostatistics and Bioinformatics, Durham, NC;

**Research Area:** Health Sciences Research, Pediatric Urology, Medical Education/Training

**Funding:** NIH Grant K08-DK100534 (Routh)

**Trainee Competition (P-8)**

**Contemporary Demographic and Treatment Patterns for Newborns Diagnosed with Disorders of Sex Development**

Tejwani, Rohit V<sup>1</sup>; Adkins, Deanna W<sup>2</sup>; Young, Brian J<sup>3</sup>; Wolf, Steven<sup>4</sup>; Alkazemi, Muhammad H<sup>1</sup>; Purves, Todd<sup>3</sup>; Wiener, John S<sup>3</sup>; Routh, Jonathan C<sup>3</sup>

<sup>1</sup>Duke University School of Medicine, Durham, NC;

<sup>2</sup>Duke University Medical Center. Department of Pediatrics, Durham, NC;

<sup>3</sup>Duke University Medical Center, Division of Urologic Surgery, Durham, NC;

<sup>4</sup>Duke University, Department of Biostatistics and Bioinformatics, Durham NC;

**Research Area:** Congenital Urogenital Anomalies, Health Sciences Research, Pediatric Urology

**Funding:** NIH Grant K08-DK100534

**Trainee Competition (P-9)**

**Geographic Variation in Treatment for Patients with Disorders of Sex Development**

Tejwani, Rohit V<sup>1</sup>; Adkins, Deanna W<sup>2</sup>; Young, Brian J<sup>3</sup>; Wolf, Steven<sup>4</sup>; Alkazemi, Muhammad H<sup>1</sup>; Purves, Todd<sup>3</sup>; Wiener, John S<sup>3</sup>; Routh, Jonathan C<sup>3</sup>

<sup>1</sup>Duke University School of Medicine, Durham, NC;

<sup>2</sup>Duke University Medical Center. Department of Pediatrics, Durham, NC;

<sup>3</sup>Duke University Medical Center, Division of Urologic Surgery, Durham, NC;

<sup>4</sup>Duke University, Department of Biostatistics and Bioinformatics, Durham NC;

**Research Area:** Congenital Urogenital Anomalies, Pediatric Urology

**Funding:** NIH Grant: K08-DK100534

**(P-10)**

**Predictive Toxicology and Computer Simulation of Male Reproductive Development**

Leung, Maxwell

National Center for Computational Toxicology, US EPA, Research Triangle Park, North Carolina USA

**Research Area:** Congenital Urogenital Anomalies, Pediatric Urology, Sexual Dysfunction



**Trainee Competition (P-11)****High Glucose in the Major Pelvic Ganglion Increases Sympathetic Neurons, Decreases Parasympathetic and Nitrergic Neurons and Promotes Apoptosis**

Gatto, Anthony; Shope, Ashten; Pak, Elena; Hannan, Johanna L

East Carolina University, Department of Physiology, Greenville, NC

**Research Area:** Sexual Dysfunction

**Funding:** ECU Start-up (JLH)

**(P-12)****Initial Pharmacotherapy for Overactive Bladder Symptoms Among Medicare Beneficiaries**

Scales, Charles D<sup>1</sup>; Greiner Melissa A<sup>2</sup>; Curtis, Lesley H<sup>2</sup>; Hammill Bradley G<sup>2</sup>; Peterson, Andrew C<sup>3</sup>; Amundsen, Cindy L<sup>4</sup>; Martinez-Bianchi Viviana S<sup>5</sup>; Heflin Mitchell T<sup>6</sup>; Schmader, Kenneth E<sup>6</sup>

<sup>1</sup>Duke Urology and Duke Clinical Research Institute, Durham, NC; <sup>2</sup>DCRI, Durham, NC; <sup>3</sup>Division of Urology, Duke University, Durham, NC; <sup>4</sup>Division of Urogynecology and Reconstructive Surgery and Urologic Surgery, Duke University, Durham, NC; <sup>5</sup>Department of Community & Family Medicine, Duke University, Durham, NC; <sup>6</sup>Division of Geriatrics, Department of Medicine, Duke University and GRECC Durham VA Medical Center, Durham, North Carolina

**Research Area:** Health Sciences Research

**Funding:** NIH/NIA GEMSSTAR program (R03AG048130) and American Geriatric Society Dennis W. Jahnigen Career Development Award (Scales)

**(P-13)****OAB Without an “Overactive Bladder”: Insights from an Acute Prostaglandin E2 Rat Model**

Hokanson, James A; Langdale, Christopher L; Grill, Warren M

Duke University, Biomedical Engineering, Durham, NC

**Research Area:** Overactive Bladder (OAB)

**Funding:** NIDDK K12 DK100024 and GSK Bioelectronics Research Program

(P-14)

**Are Epigenetic Mechanisms Involved in the Development of Urgency Urinary Incontinence?**Siddiqui, Nazema Y<sup>1</sup>; Burke, Emily E<sup>2</sup>; Lucas, Joseph E<sup>3</sup>; Amundsen, Cindy L<sup>1</sup>; Murphy, Susan K<sup>1</sup><sup>1</sup>Duke University Medical Center, Department of Obstetrics & Gynecology, Durham, North Carolina;<sup>2</sup>Duke University Medical Center, Department of Biostatistics and Bioinformatics Durham, North Carolina; <sup>3</sup>Duke University Medical Center, Department of Electrical and Computer Engineering; Durham, North Carolina**Research Area:** Female Pelvic Medicine, "Omics" Related Research –Epigenomics, Overactive Bladder (OAB)**Funding:** K12 (KURe)

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**Inflammasomes are Important Mediators of Cyclophosphamide-Induced Bladder Inflammation**Hughes, Monty F<sup>1</sup>; Vivar, Nivardo P<sup>2</sup>; Kennis, James G<sup>2</sup>; Pratt-Thomas Jeffery D<sup>2</sup>; Lowe Danielle W<sup>3</sup>; Shaner, Brooke E<sup>6</sup>; Nietert, Paul J<sup>5</sup>; Spruill, Laura S<sup>6</sup>; Purves, Todd J<sup>1</sup><sup>1</sup>Duke University Medical Center, Department of Surgery, Division of Urology, Durham, NC;<sup>2</sup>Medical University of South Carolina, Department of Urology, Charleston, SC;<sup>3</sup>Medical University of South Carolina, Department of Pediatrics, Charleston, SC;<sup>4</sup>Medical University of South Carolina, Department of Pharmaceutical and Biomedical Sciences, Charleston, SC; <sup>5</sup>Medical University of South Carolina, Department of Public Health Sciences, Charleston, SC; <sup>6</sup>Medical University of South Carolina, Department of Pathology, Charleston, SC**Research Area:** Female Pelvic Medicine, Urodynamics, Bladder inflammation

(P-16)

**The NLRP3 Inflammasome Mediates Inflammation Produced by Bladder Outlet Obstruction**Hughes, Monty F<sup>1</sup>; Hill, Hayden M<sup>2</sup>; Wood, Case M<sup>2</sup>; Edmondson, Andrew T<sup>2</sup>; Dumas, Aliya<sup>2</sup>; Foo, Wen-Chi<sup>3</sup>; Oelsen, James M<sup>2</sup>; Rac, Goran<sup>2</sup>; Purves, Todd J<sup>1</sup><sup>1</sup>Duke University Medical Center, Department of Surgery, Division of Urology, Durham, NC;<sup>2</sup>Medical University of South Carolina, Department of Urology, Charleston, SC;<sup>3</sup>Duke University Medical Center, Department of Pathology, Durham, NC;**Research Area:** Female Pelvic Medicine, Urodynamics, Bladder inflammation Bladder Outlet Obstruction**Funding:** NIH - NIDDK - R01DK103534

**Trainee Competition (P-17)****The Contribution(s) of Transforming Growth Factor-Beta to Bladder Afferent Nerve Hyperexcitability with Cyclophosphamide-Induced Cystitis**

Gonzalez, Eric J<sup>1</sup>; Heppner, Thomas J<sup>2</sup>; Nelson, Mark T<sup>2</sup>; Vizzard, Margaret A<sup>3</sup>

<sup>1</sup>Duke University, Biomedical Engineering, Durham, NC; <sup>2</sup>University of Vermont, Pharmacology, Burlington, VT; <sup>3</sup>University of Vermont, Neurological Sciences, Burlington, VT

**Research Area:** Urodynamics

**Funding:** DK051369, DK060481, DK053832, HL121706, HL095488

**(P-18)****Phasic Activation of the External Urethral Sphincter Increases Voiding Efficiency in the Rat and the Cat**

Langdale, Christopher L<sup>1</sup>; Grill, Warren M<sup>2, 3, 4</sup>

<sup>1</sup>Duke University, Department of Biomedical Engineering, Durham, NC;

<sup>2</sup>Duke University, Department of Electrical and Computer Engineering, Durham, NC;

<sup>3</sup>Duke University, Department of Neurobiology, Durham, NC;

<sup>4</sup>Duke University, Department of Surgery, Durham, NC

**Research Area:** Urodynamics, Voiding Dysfunction/Urinary Retention

**Funding:** National Institutes of Health (R01 NS050514)

**Trainee Competition (P-19)****Novel Method for Non-Invasive Measurement of Post-Void Residual Volume in Continuous Animal Cystometry**

Danziger, Zachary C<sup>1</sup>; Grill, Warren M<sup>1, 2, 3, 4</sup>

<sup>1</sup>Duke University, Department of Biomedical Engineering, Durham NC; <sup>2</sup>Duke University, Department of Neurobiology, Durham NC; <sup>3</sup>Duke University, Department of Surgery, Durham NC;

<sup>4</sup>Duke University, Department of Electrical and Computer Engineering, Durham NC

**Research Area:** Urodynamics

**Funding:** NIH R01 NS050514

**Trainee Competition (P-20)****Outcomes of Transobturator Sling Placement in Women with Incontinence Secondary to Radical Prostatectomy and Radiotherapy for Prostate Cancer: A Systematic Review and Meta-analysis**

Ajay, Divya<sup>1</sup>; Potts, Bradley<sup>2</sup>; Feltner, Cynthia<sup>3</sup>; Peterson, Andrew<sup>1</sup>

<sup>1</sup>Division of Urology, Department of Surgery, Duke University Medical Center, Durham, NC;

<sup>2</sup>School of Medicine, Duke University, Durham, NC;

<sup>3</sup>Gillings School of Global Public Health, University of North Carolina, Chapel Hill, NC

**Research Area:** Clinical Outcomes Research, Urinary Reconstruction, Voiding Dysfunction/Urinary Retention

**Trainee Competition (P-21)****Hydration Status Is Not Associated With Urinary Incontinence**

Willis-Gray, Marcella G<sup>1</sup>; Wu, Jennifer M<sup>1</sup>; Markland, Alayne D<sup>2</sup>

<sup>1</sup>University of North Carolina at Chapel Hill, Department of OBGYN, Chapel Hill, NC;

<sup>2</sup>University of Alabama-Birmingham, Department of Medicine, Birmingham, AL<sup>3</sup>

**Research Area:** Voiding Dysfunction/Urinary Retention

**Trainee Competition (P-22)****Urinary Retention After Male Transobturator Sling Resolves Spontaneously Without the Need for Surgical Intervention; an Algorithmic Approach to Prevent Unnecessary Procedures.**

Allio, Bryce A; Ajay, Divya; Peterson, Andrew

Duke, Urology, Durham, NC

**Research Area:** Voiding Dysfunction/Urinary Retention

**Trainee Competition (P-23)****Evaluation of a Novel Single-Use Flexible Ureteroscope**

Dale, Joanne A<sup>1</sup>; Kaplan, Adam G<sup>1</sup>; Radvak, Daniela<sup>2</sup>; Shin, Richard<sup>1</sup>; Ackerman, Anika<sup>1</sup>; Chen, Tony<sup>1</sup>; Scales Jr., Charles D<sup>1</sup>; Ferrandino, Michael N<sup>1</sup>; Simmons, Neal W<sup>2</sup>; Preminger, Glenn M<sup>1</sup>; Lipkin, Michael E<sup>1</sup>

<sup>1</sup>Duke University Health System, Division of Urologic Surgery, Durham, North Carolina;

<sup>2</sup>Duke University, Department of Mechanical Engineering, Durham, North Carolina

**Research Area:** Nephrolithiasis

**Trainee Competition (P-24)****Comparison of an Electric Pulse Lithotripter to the Holmium Laser: Stone Fragmentation Efficiency and Impact on Flexible Ureteroscope Deflection and Flow**

Kaplan, Adam G<sup>1</sup>; Chen, Tony T<sup>1</sup>; Shin, Richard<sup>1</sup>; Cabrera, Fernando<sup>1</sup>; Ackerman, Anicka<sup>1</sup>; Radvak, Daniela<sup>2</sup>; Dale, Joanne<sup>1</sup>; Sankin, Georgy<sup>2</sup>; Zhong, Pei<sup>2</sup>; Scales, Charles D<sup>1</sup>; Ferrandino, Michael N<sup>1</sup>; Simmons, Neal W<sup>2</sup>; Preminger, Glenn M<sup>1</sup>; Lipkin, Michael E<sup>1</sup>

<sup>1</sup>Duke University Medical Center, Urology, Durham, NC; Duke University,

<sup>2</sup>Department of Mechanical Engineering and Materials Science, Durham, NC

**Research Area:** Nephrolithiasis

**Funding:** Lithotech Medical Group

**Trainee Competition (P-25)****Evaluation of Contact Electropulse Lithotripsy: in Vitro Assessment of Cavitation and Stone Fragmentation**

Kaplan, Adam G<sup>1</sup>; Sankin, Georgy<sup>2</sup>; Gautho, Morgan<sup>2</sup>; Yang, Chen<sup>2</sup>; Dale, Joanne<sup>1</sup>; Preminger, Glenn M<sup>1</sup>; Lipkin, Michael E<sup>1</sup>; Zhong, Pei<sup>2</sup>

<sup>1</sup>Duke University Medical Center, Urology, Durham, NC;

<sup>2</sup>Duke University, Department of Mechanical Engineering and Materials Science, Durham, NC

**Research Area:** Nephrolithiasis

**Funding:** Lithotech Medical Group, Pratt Fellow Program

**Trainee Competition (P-26)****Hospital Based Economic Impact and Utilization of Imaging Studies are Increasing for Pediatric Urolithiasis**

Young, Brian J; Wolf, Steven; Wang, Hsin-Hsiao S; Tejwani, Rohit; Purves, Todd J; Wiener, John S; Routh, Jonathan C

Duke University, Division of Urology, Durham, NC

**Research Area:** Nephrolithiasis

**Funding:** NIDDK K08-DK100534

**Trainee Competition (P-27)**

**Digital Tomosynthesis: A Viable Alternative to Non-Contrasted Computed Tomography for the Follow-up of Nephrolithiasis**

Cabrera, Fernando J; Kaplan, Adam G; Youssef, Ramy F; Tsivian, Matvey; Shin, Richard H; Scales, Charles D; Preminger, Glenn M; Lipkin, Michael E

Duke University Medical Center, Urology, Durham, NC

**Research Area:** Uroradiology

**(P-28)**

**Cell Therapy for Neurogenic Detrusor Overactivity: Proof of Concept using Intramural Implantation of Adrenal Medullary Chromaffin Cells following Chronic Suprasacral Spinal Cord Injury**

Brooks, Jillene M<sup>1</sup>; Degoski Danielle J<sup>1</sup>; Dolber, Paul C<sup>3</sup>; Fraser, Matthew O<sup>3</sup>

<sup>1</sup>Institute for Medical Research, Durham, NC; <sup>2</sup>University of Texas Medical Branch, Surgery, Galveston, TX; <sup>3</sup>Duke University and Durham VA Medical Centers, Surgery / Research and Development, Durham, NC

**Research Area:** Cell Therapy, Neurogenic Bladder, Therapeutic Development

**Funding:** VA RRD Pilot Study Funding

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