



Wednesday-Thursday-Friday
 December 4-5-6, 2024
The Westin Milwaukee
 Milwaukee, Wisconsin

2024 CAIRIBU MEETING PROGRAM PLANNING COMMITTEE

Bernadette Zwaans, PhD (Oakland University/Corewell Health); Doug Strand, PhD (UT Southwestern); Eva Raphael, MD, MPH (UCSF); Kris Penniston, PhD (UW-Madison); Michael Odom, PhD (Duke University); Deepak Nihalani, PhD (NIH/NIDDK); Chris Mullins, PhD (NIH/NIDDK); John Lieske, MD (Mayo Clinic); Giulia Ippolito Lane, MD, MS (University of Michigan); Muthuvel Jayachandran, PhD (Mayo Clinic); Jonathan Barasch, MD, PhD (Columbia University); Scott Bauer, MD, MS (UCSF)

WEDNESDAY, DECEMBER 4

OPENING SESSION

12:30 PM - **Kristina Penniston, PhD**; Senior Scientist, University of Wisconsin-Madison; PI, CAIRIBU U24 Interactions Core
 - **Christopher Mullins, PhD**; National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), Division of Kidney, Urology, and Hematology (KUH) Program Director and Project Scientist for CAIRIBU; and 2024 recipient of an NIH Director's Award ([learn more](#) [HERE](#))

KEYNOTE SPEAKER

12:50 PM **Johanna Hannan, PhD**, Associate Professor, Department of Urology, University of Wisconsin Madison School of Medicine and Public Health (previously at East Carolina University, Brody School of Medicine)
 - *Advancing Understanding of Pelvic Radiation-Induced Urogenital Dysfunction*

SCIENTIFIC SESSION 1: INFECTION AND IMMUNE FUNCTION IN THE LOWER URINARY TRACT

Moderators: Alison Huang, MD (PI, University of California San Francisco KUroEpi Program)

1:20 PM **Immune repertoires in benign prostatic hyperplasia**
 - **Jonathan Pollack, MD, PhD**, Stanford University, George M. O'Brien Urology Center

1:40 **Signal transduction by hematuria regulates urothelial cell death**
 - **Jonathan Barasch, MD, PhD**, Columbia University, George M. O'Brien Urology Center (co-PI)

2:00 **Exploring the microbiome in recurrent urinary tract infections – a pilot study**
 - **Djamila Eliby, PhD**, Columbia University, George M. O'Brien Urology Center

2:20 **Urinary microbiome**
 - **Miguel Verbitsky, PhD**, Columbia University, George M. O'Brien Urology Center

2:40 **Improving tools towards individualized risk prediction and management of BK virus**
 - **Bin Ni, MD**, K12 Scholar, Duke University KURe Program

3:00 **Identifying predictors of antibiotic discordance in urinary tract infections**
 - **Eva Raphael, MD, MPH**, University of California San Francisco (prior K12 Scholar, UCSF KUroEpi Program)



3:20 – 3:45 PM BIO BREAK AND ACTIVITIES (25 minutes)

3:25 PM **CAIRIBU JEOPARDY, ROUND 1**

3:35 PM **CAIRIBU CORNHOLE TOURNAMENT, ROUND 1**



CONCURRENT INTERACTIVE KNOWLEDGE EXCHANGE AND RESEARCH STRATEGY SESSIONS

3:45 – 5:00 PM

<p>EFFECTS OF AGING IN THE LOWER URINARY TRACT <i>(moderators, George Kuchel, MD and Scott Bauer, MD, MS)</i></p>	<p>INFECTION, IMMUNITY, AND UROBIOME RESEARCH <i>(moderator, Indira Mysorekar, PhD)</i></p>	<p>NEURO-UROLOGICAL PROCESSES AND DYSFUNCTION <i>(moderator, Chris Mullins, PhD)</i></p>	<p>INFLAMMATION, INJURY, MECHANICAL, AND METABOLIC DYSFUNCTION <i>(moderator, Doug Strand, PhD)</i></p>
---	---	--	---

In each group, hear 2 brief (5-6 min) presentations relevant to each topic followed by discussion. **Discussions will aim for concrete outcomes:**
 (1) Prioritized list of research questions or "critical needs" relevant to the field, and (2) specific ideas for potential research collaboration(s)

SPEAKERS:

- **AgIn** – **Teresa Liu, PhD** (University of Wisconsin-Madison; prior K12 Scholar; prior CAIRIBU Collaboration Award recipient); **Laura Pascal, PhD** (University of Pittsburgh; prior CAIRIBU Convergence Award recipient)
- **Infection, urobiome** – **Michael Neugent** (University of Texas Dallas; CAIRIBU Urobiome Research Interest Group leader); **Byron Hayes** (Janelia Research Institute)

- **Neuro-uro – Em Abbott, PhD** (Duke University; K12 Scholar); **Hanneke Verstegen, PhD** (Harvard-Beth Israel Deaconess; prior O'Brien Center Opportunity Pool awardee)
- **Inflammation, injury – Michael Odom, PhD** (Duke University; K12 Scholar); **Hannah Ruetten, PhD, DVM** (Wake Forest University)

POSTER SESSION (with cash bar available)

5:00 – 7:30 PM Grand Prix – outside main meeting hall

Moderators/judges: Teresa Liu, PhD (UW-Madison); Necole Streeper, MD (Medical College of Wisconsin); Byron Hayes, PhD (Janelia Research Institute); Johanna Hannan, PhD (UW-Madison); Scott Bauer, MD, MS (UCSF); George Kuchel, MD (University of Connecticut); John Lieske, MD (Mayo Clinic Rochester); Deepak Nihalani, PhD (NIH/NIDDK); Kristina Penniston (CAIRIBU Interactions Core); Whitney Sweeney (CAIRIBU Interactions Core)

GROUP 1 - 5:00-6:15 PM

1. Cassandra Kisby - [@]^K *Exosomes for atrophy: acellular regenerative biologic...*
2. Adwaita Parab - [@] *Bladder epithelium-derived organoids to investigate aging...*
3. Emily Paterson - [@] *Cellular atlas of human lower urinary tract in aging...*
4. Zohreh Izadifar - *Urogenital organ chips: preclinical human in vitro model...*
5. John Lafin - *Accessible workflows for analysis of single cell seq data...*
6. Renea Sturm - *Ensuring cyto- and biocompatibility of nanofibrous sheets...*
7. Wei He - *Application of a low-cost reliable catheter for urethral pressure...*
8. Yuting Zheng - *Naturally inspired antioxidant mucoadhesive nanoparticles...*
9. Hannah Ruetten - *Advancing preclinical evaluations for urinary dysfunction...*
10. Anna Barrett - [%] *Collaborative summit for early-stage investigators...*
11. Allison Rundquist - *Ex vivo model for measuring mouse urethral peristalsis...*
12. Em Abbott - [%] *Electrical stimulation for sensory dysfunction in women...*
13. Natasha Wilkins - [%] *Sacral nerve stimulation to mediate bowel dysfunction...*
14. Golena Fernandez (1) - [%] *No strings attached: patient experience of stents...*
15. Golena Fernandez (2) - [%] *Who's at risk? New postop hydronephrosis...*
16. Lex Patterson - *Towards rapid and sensitive point-of-care diagnostics...*
17. Daniel Roquero (1) - *Magnetic stone removal: feasibility in porcine model...*
18. Jennifer Yarger - [%] *Perceived barriers to care for UTI in emerging adulthood...*
19. Rachel Wattier - [%] *Development of qualitative interview guides...*
20. Anabelle Hoffman - [%] *Does the number of urine voids predict urine volume...*
21. Zhina Sadeghi - [@] *Role of fibro-adipogenic progenitor cells in aged urethra...*
22. Lauren Baker - [%] *Genome-wide association analysis of acquired UI in dogs...*
23. Ajha Young - [%] *Analysis of the blood transcriptome in hypercalciuria...*
24. Lari Smith - *Cellular anatomy of normal adult human female urethra...*
25. Lindsey Felth Tanaka - *Autism spectrum disorder and LUTS...*
26. Nathalia Amado (1) - *Spatially resolved bladder transcriptomics...*
27. Arnold Salazar - *IFRD1 role in stress and maintenance of bladder epithelium...*
28. Justin Wobser - *Long-term impact of PBS mutations on bladder...*
29. Marlene Masino - *Transient receptor potential vanilloid type 1 channel...*

[@] Indicates abstract is aging-related

^K Indicates CAIRIBU KURe or KUroEpi K12 Scholar

[%] Indicates undergraduate student

GROUP 2 - 6:15-7:30 PM

1. Alexis Adrian - [@] *Mitochondrial dysfunction and the aging prostate...*
2. Ajinkya Limkar - [@] *Age-mediated cellular senescence may drive tissue dysfunction...*
3. Mariah Jensen-Wachspress - *Effect of sleep fragmentation on prostate pathology...*
4. Natalie Boucher - [%] *Long chain unsaturated FAs as mitochondrial modulators...*
5. Mia Carrarini - *ZC3H4 is a novel regulator of prostate stromal cell metabolism...*
6. Alexandra Polasko - [%] *Bone morphogenetic protein 5 role in BPH tissue...*
7. Thaissa Horne - *Epithelium-derived Csc17 role in BPH...*
8. Renee Vickman - *Validating mouse models of BPH: project overview...*
9. Hannah Miles - *Untargeted spatial mapping of biomarkers in BPH model...*
10. Samuel Cornelius - [@] *T cell exhaustion in female bladder tertiary lymphoid tissue...*
11. Jashkaran Gadhvi - [@] *Function of cell-mediated adaptive immune response...*
12. Michael Neugent - [@] *Biochemical ecology of urobiome after menopause...*
13. Kaylie Hintze - [@] *Competition amongst Lactobacilli in postmenopausal women...*
14. Bin Ni - [%] *Rates of BK virus and ureteral complications post renal transplant...*
15. Aryan Ghotra - *Hematuria suppresses urothelial cell death and inflammation...*
16. Hrishikesh Dalvi - *Fatty acid autotrophy as defining adaptation of urogenital...*
17. Daniel Roquero (2) - *Disrupting biofilms on human kidney stones...*
18. Waris Khuwaja - *Mast cell-specific G-protein coupled receptor role in UTI...*
19. Cassandra Seifert - [@] *Characterizing changes in Barrington's nucleus...*
20. Farshad Samadifam - *Functional MRI analysis of OAB and brainstem mechanisms...*
21. Jason Rengo - *G-protein coupled receptors and Ca-activated Cl channels...*
22. Nick Slavik - *Impact of stimulation location on bladder function...*
23. Monica Ridlon - *Perinatal exposure to PCBs augment bladder sensitivity...*
24. Firoj Alom - *Modulation of bladder contraction and urethral sphincter activity...*
25. Hannah Anderson - *Evaluating effects of angiotensin II type 2 receptor agonism...*
26. Michael Odom - [%] *Sex hormones contribute to development of diabetic bladder...*
27. Nathalia Amado (2) - *FinaC2152R/Y mutant mice recapitulate PBS phenotype...*
28. Sara Stuedemann - *Neuroinflammatory markers in dorsal root ganglia...*
29. Emily Tran - *Acute cystitis increases sensory neuron activation in dorsal root...*
30. Gabriella Robilotto - *Optical inhibition with transdermal light illumination...*
31. Ashika Goel - *Substance P modulates bladder transient pressure events...*
32. Akhil Pidikiti - [%] *Immunohistochemical detection of serotonin neuroendocrine cells...*
33. Leira Torres-Rivera - [%] *Long-term molecular changes in dorsal root ganglia...*

7:30 PM **BUFFET DINNER** (at hotel)

8:00 PM **POLKA DANCING LESSONS** with Dr. Travis Jerde



THURSDAY, DECEMBER 5

7:30 – 8:30 AM

BREAKFAST

OPENING SESSION

8:30 AM - **Kris Penniston, PhD**; Senior Scientist, University of Wisconsin-Madison; PI, CAIRIBU U24 Interactions Core

KEYNOTE SPEAKER

8:50 AM

George Kuchel, MD, CM, FRCP, AGSF; Professor of Medicine, Travelers Chair in Geriatrics and Gerontology, and Director of the UConn Center on Aging, University of Connecticut; Chief of Geriatrics, UConn Health; Director of the UConn Pepper Center (P30AG067988); Director of the Geroscience Education and Training Network; and Director of the KAPP-Sen Tissue Mapping Center

***Clin-STAR Distinguished Professor on the Advances in Aging Research**

- A Geriatric and Geroscience-Guided Approach to Lower Urinary Tract Symptoms and Incontinence

SCIENTIFIC SESSION 2: THE SCIENCE OF AGING IN THE LOWER URINARY TRACT

Moderators: Scott Bauer, MD, MS (University of California San Francisco; prior K12 Scholar, UCSF-Kaiser Permanente KUroEpi Program)

- 9:35 AM **Microbiome after menopause: recurrent urinary tract infection and estrogen shape urobiome structure and function**
- *Nicole De Nisco, PhD, University of Texas Dallas, CAIRIBU Urobiome Research Interest Group leader*
- 9:55 **Exosomes for vaginal atrophy**
- *Cassandra Kisby, PhD, K12 Scholar, Duke University, KURe Program*
- 10:15 **Overactive bladder treatment in older women who have undergone pelvic organ prolapse surgery**
- *Abigail Shatkin-Margolis, MD, K12 Scholar, UC San Francisco, KUroEpi Program*
- 10:35 **Targeting senescent cells in the prostate**
- *William Ricke, PhD, University of Wisconsin-Madison, George M. O'Brien Urology Center (PI)*
- 10:55 **Bone morphogenetic protein 5 (BMP5) plays a role in the growth of human normal and BPH tissue in patient-derived xenograft (PDX) models**
- *Alexandra Polasko, PhD, K12 Scholar, Stanford University KURe Program and George M. O'Brien Urology Center*
- 11:15 **Fibroblast clusters as precursors to BPH**
- *Robert West, MD, PhD, Stanford University, George M. O'Brien Urology Center*



11:35 – 11:45 AM **BIO BREAK - 10 minutes**

SCIENTIFIC SESSION 3: BEST ABSTRACTS

Moderator: Tracy Rankin, PhD, MPH (National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases)

- 11:45 AM **The role of fibro-adipogenic progenitor cells in aged female urethra striated muscle and urinary incontinence (best aging abstract)**
- *Zhina Sadeghi, MD, University of California Irvine*
- 11:55 **Perinatal exposure to polychlorinated biphenyls (PCBs) augment bladder sensitivity to contractile stimuli potentially through ryanodine receptor binding and increased BK channel expression (highest scoring abstract)**
- *Monica Ridlon, PhD candidate, University of Wisconsin-Madison*
- 12:05 **Accessible workflows for analysis and visualization of single cell sequencing data (highest scoring abstract)**
- *John Lafin, PhD, University of Texas Southwestern*

12:15 – 1:15 PM **LUNCH – 60 minutes**

SCIENTIFIC SESSION 4: INFLAMMATION AND INJURY IN THE LOWER URINARY TRACT

Moderator: Cathy Mendelsohn, PhD (Co-PI, Columbia University George M. O'Brien Urology Center)

- 1:15 PM **Prevention of renal scarring through inhibition of FTO**
- *James Brooks, MD, Stanford University, George M. O'Brien Urology Center (PI)*
- 1:35 **Inflamming in bladder and urethra**
- *Douglas Strand, PhD, University of Texas Southwestern (and affiliated with UW-Madison George M. O'Brien Urology Center)*
- 1:55 **Claudin-2 in renal inflammation and urinary stone pathogenesis**
- *Muthuvel Jayachandran, PhD, Mayo Clinic Rochester, P20 Urology Center*
- 2:15 **Thermal injury and thulium fiber laser outcomes in porcine model**
- *Michael Lipkin, MD, Duke University, P20 Urology Center*

2:35 – 3:00 PM **BIO BREAK (25 minutes)**

2:45 PM **CAIRIBU JEOPARDY, ROUND 2**



CONCURRENT NETWORKING AND INTERACTIONS SESSIONS

3:00 – 4:00 PM	Clinical Studies and Trials in Genitourinary Research	Architecting an Integrated Approach to Phenotyping Across GU Conditions	Growing the Pipeline and Training the Next Generation of Leaders in GU Research
Harnessing Artificial Intelligence in Urology Research			
<i>Moderated by Whitney Sweeney, PhD. "Think-tank" discussion to explore how to gain traction in AI techniques in order to advance our science</i>	<i>Moderated by George Kuchel, MD. Strategic discussion aimed at identifying critical research needs and how to design better clinical studies</i>	<i>Moderated by James Brooks, MD and Chris Mullins. Group to discuss developing a blueprint for the systemic characterization and sub-phenotyping of heterogeneous urologic disorders</i>	<i>Moderated by Tracy Rankin, PhD, MS. Discuss strategies to attract, retain, and train investigators in non-malignant genitourinary research</i>

4:00 – 4:15 PM **BIO BREAK - 15 minutes**

SCIENTIFIC SESSION 5: BLADDER MECHANICS, BLADDER DYSFUNCTION, AND CONGENITAL ABNORMALITIES

Moderator: Cindy Amundsen, MD (PI, Duke University KURe Program)

- 4:15 PM **Genetics of congenital kidney malformations**
- *Hila Rasouly, PhD, Columbia University, George M. O'Brien Urology Center*
- 4:35 **Long-term impact of PBS mutations on bladder, kidney, and reproductive function in FLNA-C2152R mice**
- *Justin Wobser, MPH, PhD candidate, Nationwide Children's Hospital*
- 4:55 **School-based interventions in lower urinary tract symptoms: What is the evidence?**
- *Kathleen Kan, MD, K12 Scholar, Stanford University KURe Program*
- 5:15 **Overactive bladder in post-menopausal women: longitudinal case control study of urinary microbiome and biomarkers**
- *Giulia Ippolito, MD, K12 Scholar, University of Michigan KUroEpi Program*

5:35 – 5:45 PM **BIO BREAK - 10 minutes**

5:40 PM **CAIRIBU CORNHOLE, ROUND 2**

NETWORKING RECEPTION AND AWARDS (with cash bar available)

5:45 -7:00 PM

6:30 PM **CAIRIBU JEOPARDY, ROUND 3**



7:30 PM **DINNER ON YOUR OWN**

*Small group dinners will be organized for those who want to venture out to downtown Milwaukee restaurants. A list of nearby restaurants is available at the registration table. **Sign up at the registration table or create your own dinner group.** Dinner is on your own.*

FRIDAY, DECEMBER 6

7:30 – 8:30 AM **BREAKFAST**

8:00 AM **CAIRIBU CORNHOLE, ROUND 3**

SCIENTIFIC SESSION 6: BIG DATA, BIOINFORMATICS, AI, AND MACHINE LEARNING IN UROLOGY RESEARCH

Moderator: Jim Hokanson, PhD (Medical College of Wisconsin; prior K12 Scholar in Duke University KURe Program)

- 8:30 AM **Use of big data to study kidney stone genetics and pathogenesis**
- *John Lieske, MD, Mayo Clinic Rochester, P20 Urology Center (co-PI)*
- 8:50 **Real-time intraoperative stone measurement during flexible ureteroscopy**
- *Kevin Koo, MD, MPH, Mayo Clinic Rochester, P20 Urology Center (co-PI)*

SCIENTIFIC SESSION 7: NEW TECHNOLOGIES

Moderator: Jim Hokanson, PhD (Medical College of Wisconsin; prior K12 Scholar in Duke University KURe Program)

- 9:10 AM **AI-enabled morphometric analysis of benign prostatic hyperplasia**
- *Wei Huang, MD, University of Wisconsin-Madison, George M. O'Brien Urology Center*
- 9:30 **Stone fragmentation by holmium:YAG laser and thulium fiber laser**
- *Junqin Chen, PhD candidate, Duke University, P20 Urology Center*
- 9:50 **Nanofluid-enhanced laser lithotripsy**
- *Po-Chun Hsu, PhD, University of Chicago (and affiliated with the Duke University P20 Urology Center)*
- 10:10 **Non-invasive urethral assessment**
- *Matthew Grimes, MD, K12 Scholar, University of Wisconsin-Madison KURe Program*

10:30 – 10:45 AM **BREAK – 15 minutes**

SCIENTIFIC SESSION 8: NEURO-UROLOGICAL PROCESSES AND DYSFUNCTION IN THE LOWER URINARY TRACT

Moderator: Kimberly Keil Stietz, PhD (UW-Madison Urology O'Brien Center)

- 10:45 AM **Substance P modulates bladder transient pressure events via NK2 and NK3 receptors without altering mechanical compliance**
- **Ashika Goel**, graduate student, Michigan State University (and affiliated with Oakland/Corewell Health P20 Urology Center)
- 11:05 **Advancing our understanding of bladder sensation, interoception, and pain**
- **Aaron Mickle, PhD**, Medical College of Wisconsin
- 11:25 **Ameliorating mast cell-driven pelvic pain following recurrent bladder infection**
- **Byron Hayes, PhD**, Janelia Research Institute (prior K12 Scholar, Duke University KURe Program)
- 11:45 **A cellular origin of prostate fibrosis**
- **Chad Vezina, PhD**, University of Wisconsin-Madison George M. O'Brien Center; and UW-Madison KURe Program (PI)
-

ANNOUNCEMENTS AND CAIRIBU COMMUNITY AWARDS

12:05 PM **CAIRIBU Interactions Core**

TAKE-HOME MESSAGES (5 min each) - Moderator: Kristina Penniston, PhD (CAIRIBU Interactions Core, UW-Madison)

- 12:15 PM Session 1 – **Lex Patterson**, Georgia Institute of Technology (graduate student mentor, Maria Hadjifrangiskou, PhD, Vanderbilt University)
- Session 2 – **Ajinkya Limkar**, University of Wisconsin-Madison (MD-PhD candidate, mentor, William Ricke, PhD)
- Session 3 – **Shreya Nair**, University of Wisconsin-Madison (graduate student mentor, Chad Vezina, PhD)
- Session 4 – **Samuel Cornelius**, University of Texas Dallas (graduate student mentor, Nicole De Nisco, PhD)
- Session 5 – **Adwaita Parab**, Baylor College of Medicine (graduate student mentor, Indira Mysorekar, PhD)
- Session 6 – **Marlene Masino**, Michigan State University (graduate student mentor, Nathan Tykocki, PhD)
- Session 7 – **Emily Paterson**, University of Texas Southwestern (graduate student mentor, Douglas Strand, PhD)
- Session 8 – **Emily Tran**, University of Wisconsin-Madison (graduate student mentor, LaTasha Crawford, DVM, PhD)

CONCLUDING REMARKS & MEETING EVALUATIONS

12:55 PM (adjourn at 1:00 PM)

ANNOUNCEMENTS

1. **CAIRIBU CENSUS.** Don't forget to complete the 2025 CAIRIBU Census. Look for laptops placed at the registration table and elsewhere.
2. **MEETING EVALUATION.** Your evaluations of the CAIRIBU meeting are very important. Next year's planning committee will use your feedback to make the annual CAIRIBU meeting even better. PLEASE complete a meeting evaluation. A paper copy is in your meeting folder. A link to the electronic version of the survey will be made available.
3. **PLANNING FOR 2025 MEETINGS.** Let CAIRIBU Interactions Core staff know if you want to be part of planning committee meetings for 2025. We will be assembling a committee of trainees and early-stage investigators to plan the Wednesday morning pre-meeting and also a committee to plan the main CAIRIBU meeting. Planning meetings will be virtual and will likely commence in March. Usually we have 2-3 virtual meetings with subsequent decisions made via email.
4. **CAIRIBU ARCTICS COMMUNITY FORUMS.** Want to be part of the planning committee to identify content and speakers for next year??? Let CAIRIBU Interactions Core staff know.
5. **GRADUATE STUDENT SEMINARS.** Do you want a chance to present your research to a virtual audience of peers and established investigators? The CAIRIBU Interactions Core is looking to fill the 2025 schedule.
6. **CAIRIBU K12 SCHOLAR SEMINARS.** Talk to Mariana Coughlin of the CAIRIBU Interactions Core if you are a K12 Scholar who wants to deliver a virtual presentation about your research. Or talk with Dr. Alex Polasko, the 2025 K12 Scholar Seminar leader.

**CAIRIBU
Census
2025**





Wednesday-Thursday-Friday
 December 4-5-6, 2024
The Westin Milwaukee
 Milwaukee, Wisconsin

CAIRIBU Meeting Abstract Reviewers

- | | | |
|--------------------------------|------------------------------|-------------------------------|
| Rosalyn Adam, PhD | George Kuchel, MD | Eva Raphael, MD, MPH |
| Cindy Amundsen, MD | Dolores Lamb, PhD | Aruna Sarma, PhD, MHA |
| Dean Assimos, MD | Dirk Lange, PhD | Zhina Sadeghi, MD |
| Lauren Baker, PhD, DVM | Marvin Langston, PhD, MPH | Nicholas Steers, PhD |
| Linda Baker, MD | John Lieske, MD | Kimberly Keil Stietz, PhD |
| Jonathan Barasch, MD, PhD | Michael Lipkin, MD | Douglas Strand, PhD |
| Scott Bauer, MD, MS | Teresa Liu, PhD | Necole Streeper, MD |
| James Brooks, MD | Cathy Mendelsohn, PhD | Renea Sturm, MD |
| Catherine Brownstein, PhD, MPH | Aaron Mickle, PhD | Whitney Sweeney, PhD |
| Nicole De Nisco, PhD | Tanecia Mitchell, PhD | Tatyana Sysoeva, PhD |
| Matthew Grimes, MD | Christopher Mullins, PhD | Nathan Tykocki, PhD |
| Johanna Hannan, PhD | Indira Mysorekar, PhD | Anne-Catrin Uhlemann, MD, PhD |
| James Hokanson, PhD | Laura Pascal, PhD | Chad Vezina, PhD |
| Alison Huang, MD, MPhil, MAS | Kristina Penniston, PhD, RDN | Renee Vickman, PhD |
| Giulia Ippolito, MD, MS | Jonathan Pollack, MD, PhD | Robert West, MD, PhD |
| Muthuvel Jayachandran, PhD | Petra Popovics, PhD | Alan Wolfe, PhD |
| Lisa Karstens, PhD | Scott Quarrier, MD, MPH | Bernadette Zwaans, PhD |
| Kevin Koo, MD, MPH | Tracy Rankin, PhD, MPH | |

Top Scoring Abstracts

Abstracts with total calculated scores <22.0 per NIH scoring system (LISTED IN ALPHABETICAL ORDER):

1. **Alexis Adrian**, graduate student (UW-Madison) – Poster G2-1
2. **Thaissa Horne**, research assistant (Virginia Health Sciences at Old Dominion University) – Poster G2-7
3. **John Lafin, PhD**, senior research associate (UT Southwestern) – selected for oral presentation (session 3)/poster G1-5
4. **Monica Ridlon**, graduate student (UW-Madison) – selected for oral presentation (session 3)/poster G2-23
5. **Gabriella Robilotto**, graduate student (Medical College of Wisconsin) – Poster G2-30
6. **Hannah Ruetten, PhD, DVM**, postdoctoral researcher (Wake Forest University) – Poster G1-9
7. **Farshad Samadifam**, graduate student (Medical College of Wisconsin & Marquette University) – Poster G2-20
8. **Lari Smith**, graduate student (UT Southwestern) – Poster G1-24
9. **Justin Wobser**, graduate student (Nationwide Children’s Hospital) – selected for oral presentation (session 5)/poster G1-28
10. **Jennifer Yarger, PhD, K12 Scholar** (University of California San Francisco) – Poster G1-18

Best Aging Abstract

- **Zhina Sadeghi, MD, early-stage investigator** (University of California Irvine) – selected for oral presentation (session 3)

Poster Session Judges

- | | |
|---------------------|----------------------|
| Scott Bauer, MD, MS | Teresa Liu, PhD |
| Johanna Hannan, PhD | Deepak Nihalani, PhD |
| Byron Hayes, PhD | Kris Penniston, PhD |
| George Kuchel, MD | Necole Streeper, MD |
| John Lieske, MD | Whitney Sweeney, PhD |

Poster Judging Categories

1. Research methods, techniques, and technologies
2. Clinical care, diagnostics, patient outcomes
3. Genetics
4. Prostate
5. Urobiome and infection
6. Bladder contraction and stimulation
7. Bladder injury, pain, and dysregulation
8. Aging-related



The CAIRIBU Community

CAIRIBU INTERACTIONS CORE (U24-DK-127726, 2020-2025)
University of Wisconsin-Madison

- Kristina Penniston, PhD, RDN, Principal Investigator
- Mariana Coughlin, MS, Communications and Outreach, Patient Engagement
- Muen Wang, Graphic Arts and Project Management
- Lori Uttech-Hanson, MA ED, Grants Administration
- Anna Barrett, student assistant

NIH/NIDDK PROGRAM OFFICERS

Division of Kidney, Urology, and Hematology

- Christopher Mullins, PhD, Project Scientist
- Deepak Nihalani, PhD, Program Official



National Institute of Diabetes and Digestive and Kidney Diseases

CURRENT CAIRIBU CENTERS AND PROGRAMS

GEORGE M. O'BRIEN UROLOGY U54 RESEARCH CENTERS		
INSTITUTION	PRINCIPAL INVESTIGATOR	GRANT CYCLES
University of Wisconsin-Madison	William Ricke, PhD	2014-2019 and 2019-2024
Columbia University	Jonathan Barasch, MD, PhD; Ali Gharavi, MD; Cathy Mendelsohn, PhD; Anne-Catrin Uhlemann, MD, PhD	2014-2019 and 2020-2025
Stanford University	James Brooks, MD	2021-2026
P20 EXPLORATORY CENTERS FOR INTERDISCIPLINARY RESEARCH IN BENIGN UROLOGY		
INSTITUTION	PRINCIPAL INVESTIGATOR	GRANT CYCLE
Michigan Interdisciplinary Center for Urology Research and Education (Beaumont Health-Oakland University)	Bernadette Zwaans, PhD; Michael Chancellor, MD	2021-2023
FOSTERING RESEARCH WITH ADDITIONAL RESOURCES AND DEVELOPMENT P20 CENTERS		
INSTITUTION	PRINCIPAL INVESTIGATOR	GRANT CYCLES
Duke University	Pei Zhong, PhD	2022-2024
Mayo Clinic (Rochester)	Kevin Koo, MD, MPH; John Lieske, MD	2022-2025
K12 UROLOGICAL EPIDEMIOLOGY (KUOEPI) INSTITUTIONAL RESEARCH CAREER DEVELOPMENT PROGRAMS AND K12 MULTIDISCIPLINARY UROLOGIC RESEARCH CAREER DEVELOPMENT PROGRAMS		
INSTITUTION	PRINCIPAL INVESTIGATOR	GRANT CYCLES
University of Michigan (KUroEpi)	Aruna Sarma, PhD; Quentin Clemens, MD	2021-2026 (Prior, 2016-2021)
University of California San Francisco-Kaiser Permanente (KUroEpi)	Alison Huang, MD; Stephen Van Den Eeden, PhD	2023-2028 (Prior, 2018-2023)
Duke University (KURe)	Cindy Amundsen, MD	2023-2028 (Prior, 2013-2023)
University of Wisconsin-Madison (KURe)	Chad Vezina, PhD (Dale Bjorling, DVM, MS; Wade Bushman, MD, PhD)	2023-2028 (Prior, 2013-2023)
Stanford University (KURe)	Joseph Liao, MD; James Brooks, MD	2023-2027

PRIOR CAIRIBU CENTERS AND PROGRAMS

GEORGE M. O'BRIEN UROLOGY U54 RESEARCH CENTERS		
INSTITUTION	PRINCIPAL INVESTIGATOR	GRANT CYCLES
University of Pittsburgh	Zhou Wang, PhD	2016-2021
Mayo Clinic (Rochester)	John Lieske, MD	2014-2019
P20 EXPLORATORY CENTERS FOR INTERDISCIPLINARY RESEARCH IN BENIGN UROLOGY		
INSTITUTION	PRINCIPAL INVESTIGATOR	GRANT CYCLES
Medical College of Wisconsin	Kathryn Flynn, PhD	2020-2022
Children's Hospital of Philadelphia-University of Pennsylvania	Greg Tasian, MD, MSc, MSCE	2022-2022
University of Alabama at Birmingham	Dean Assimos, MD	2020-2022 and 2018-2020
Vanderbilt University Medical Center	Maria Hadjifrangiskou, PhD	2019-2021
University of Tennessee Health Science Center	Robert Wake, MD	2019-2021
Duke University	Pei Zhong, PhD	2019-2021
Albert Einstein College of Medicine	Kelvin Davies	2019-2021
Washington University	Indira Mysorekar, PhD	2018-2020
NorthShore University HealthSystem-Purdue University	Simon Hayward, PhD; Timothy Ratliff, PhD	2018-2020
Columbia University	Simone Sanna-Cherchi, MD	2018-2020
Beth Israel Deaconess Medical Center-Harvard University	Mark Zeidel, MD	2018-2020



*Collaborating for the Advancement of
Interdisciplinary Research in Benign Urology*

CAIRIBU Interactions Core Awards, 2019-2024

The CAIRIBU Interactions Core uses its opportunity pool funds to award collaborative research proposals with high potential for longer-term external funding. Awards are typically funded for one year up to \$50,000 direct costs. The awards are competitive; applications go through peer review with content experts from both inside and outside of CAIRIBU participating. Applications reviewed most favorably are then subject to final review by NIDDK Program Officers affiliated with CAIRIBU. There have been several rounds of **CAIRIBU Interactions Core Collaboration Awards**.

CAIRIBU Interactions Core Collaboration Awards

- RFA April 2021
- **Maryellen Kelly, DNP, MHSc**, Duke University (prior K12 Scholar, Duke University KURe Program)
 - **Teresa Liu, PhD**, UW-Madison, U54 Urology O'Brien Research Center (and prior K12 Scholar, UW-Madison KURe Program; also prior UW-Madison U54 O'Brien Center Opportunity Pool Awardee)
- RFA April 2022
- **Betsy Salazar, PhD**, Houston Methodist
 - **Nazema Siddiqui, MD, MHS**, Duke University (prior K12 Scholar, Duke University KURe Program)
- RFA December 2022
- **Catherine Brownstein, PhD, MPH**, Boston Children's-Harvard University (and prior Columbia University U54 O'Brien Center Opportunity Pool Awardee)
 - **LaTasha Crawford, PhD, VMD**, UW-Madison K12 Scholar, UW-Madison KURe Program
 - **Alejandro Roldán-Alzate, PhD**, UW-Madison, U54 Urology O'Brien Research Center (and prior K12 Scholar, UW-Madison KURe Program)
- RFA April 2023
- **Rose Khavari, MD**, Houston Methodist (and prior University of Pittsburgh U54 Urology O'Brien Center Opportunity Pool Awardee)
 - **Ramy Goueli, MD**, University of Texas Southwestern
- RFA March 2024
- **Kimberly Keil Stietz, PhD**, University of Wisconsin-Madison (and prior Stanford University U54 Urology O'Brien Center Opportunity Pool Awardee)
 - **James Hokanson, PhD**, Medical College of Wisconsin

The CAIRIBU Interactions Core also has funds to cover expenses incurred by trainees and early-stage investigators for participating in meetings, conferences, symposia, and other research-related or educational events. Applicants who are delivering presentations of some sort or who are acquiring education to facilitate their academic development are typically prioritized. These awards include CAIRIBU Interactions Core **Conference and Data Dissemination Grants**. Another grant mechanism supports expenses related to training, networking, or some other activity aimed at fostering interactions and ultimately research collaboration. These are CAIRIBU Interactions Core **Research Training and Development Grants**.

CAIRIBU Interactions Core Conference and Data Dissemination Grants

July 2019	1 award	To attend the University of Alabama Birmingham P20 Exploratory Center Symposium
October 2019	3 awards	To attend the Columbia University U54 Urology O'Brien Research Center Symposium
August 2022	1 award	To participate in the NIDDK Neurourology Workshop/Think Tank
December 2022	10 awards	To participate in the 2022 annual CAIRIBU Meeting
March 2023	1 award	To attend the 2023 annual SUFU Meeting
April 2023	10 awards	To abstract/poster presenters at the 2023 Duke KURe Program Annual Symposium
December 2023	12 awards	To participate in the 2023 annual CAIRIBU Meeting
June 2024	20 awards	To support CAIRIBU-affiliated ESIs to come to Madison for Collaborative Summit
December 2024	17 awards	To support students and other trainees to participate in the annual CAIRIBU meeting

CAIRIBU Interactions Core Research Training and Development Grants

April 2023	1 award	To participate in a stone-related networking activity at the 2023 AUA meeting
December 2023	1 award	To participate in CAIRIBU Urobiome Research Interest Group collaboration at CAIRIBU meeting