

Annual CAIRIBU Meeting Program: December 3-4, 2020 (via Zoom)

*** **CROSSING THE DISCIPLINARY DIVIDE** ***

Program Committee: Jonathan Barasch, Diya Binoy Joseph, Kelvin Davies, Alison Huang, Aruna Sarma, Casey Steadman, Doug Strand, Renee Vickman

Abstracts & Poster Session Committee: Dale Bjorling, Don DeFranco, Marvin Langston, Sylvia Suadicani

All times are Eastern Standard Time

THURSDAY – DECEMBER 3, 2020 | 12:30-6:30 PM EASTERN TIME

12:30pm **WELCOME:** *Chris Mullins, PhD, NIDDK*

OVERVIEW & ANNOUNCEMENTS: *Kris Penniston, PhD; Tamara Bavendam, MD, MS, NIDDK*

12:45 **KEYNOTE LECTURE**

Francine Grodstein, SCD, Professor of Medicine, Harvard Medical School; Epidemiologist, Brigham and Women's Hospital; and Director of the Nurses' Health Study (since 2011)

- **Urinary incontinence: perspectives on natural history and care-seeking from the Nurses' Health Study**

SCIENTIFIC SESSION 1: EPIDEMIOLOGY AND POPULATION RESEARCH

Moderators – **Maryellen Kelly, DSc, MSN (K12 Scholar, Duke University KURo Program)** and **David Bayne, MD, MPH (K12 Scholar, UCSF-Kaiser Permanente KUroEpi Program)**

1:30pm **Stephen Van Den Eeden, PhD** (Co-PI, UCSF-Kaiser KUroEpi Program)
Benign urology in the big data world

1:50 **Juno Obedin-Maliver, MD, MPH, MAS** (Stanford University, Former KUroEpi Scholar)
Disaggregating gender from sex in sexual dysfunction epidemiology

2:10 **Aruna Sarma, PhD** (Co-PI, University of Michigan KUroEpi Program)
Urologic complications of diabetes: UroEDIC experience

2:30 **Alison Huang, MD** (Co-PI, UCSF-Kaiser KUroEpi Program)
Interpersonal trauma as an under-recognized marker of risk for lower urinary tract dysfunction

2:50 **Marvin Langston, PhD** (K12 Scholar, UCSF-Kaiser UroEpi Program)
Inflammation and the prostate

3:10 **Courtney Streur, MD** (K12 Scholar, University of Michigan UroEpi Program)
Outcomes of pregnancy and delivery among women with physical disabilities

3:30 **Moderated discussion (15 min)** – led by session moderators

3:45 pm **15 MINUTE BREAK**

POSTER SESSION – 4:00 TO 6:30 P.M.

- Posters will be available for viewing as PDFs during the meeting in a poster “gallery”
- A link to written abstracts will be available to all for download
- **ORAL PRESENTATIONS AND BREAKOUT ROOMS:** Presenters will each prepare a 1-minute recorded “flash talk.” In the main meeting room, 3 groups of approx 15 recorded talks will be played (one group begins at 4:15, another at 5:00, and the last at 5:45 p.m.). For each talk, the presenter's PDF poster will be shown. After each group of 1-min talks, presenters will host their own Zoom breakout rooms, which will be open for 30 minutes. Meeting attendees may freely go in and out of poster rooms to pursue discussion with presenters. Attendees will be returned to the main meeting room to hear the next group of 15 flash talks, and so on.



Best Abstracts and Best Posters will be announced during the CAIRIBU meeting

FRIDAY – DECEMBER 4, 2020 | 10:30-5:30 PM EASTERN TIME

10:30am **KEYNOTE LECTURE**

Quentin Clemens, MD, Edward J. McGuire Professor of Urology; Director, Female Pelvic Medicine and Reconstructive Surgery Fellowship; and Associate Chair for Research, University of Michigan
- Contributions of Clinical Studies in Benign LUTD: What Do We Still Need?

SCIENTIFIC SESSION 2: CLINICAL AND TRANSLATIONAL RESEARCH

Moderators – **Renee Vickman, PhD** (Post-doctoral researcher, NorthShore University HealthSystem/Purdue University P20 Center) and **Bisiayo Fashemi** (Graduate student, Washington University P20 Program)

- 11:15 **Simon Hayward, PhD** (Co-PI, NorthShore University HealthSystem-Purdue University P20 Center)
TNF-alpha antagonism as a potential approach to modify BPH pathogenesis
- 11:30 **Pradeep Tyagi, PhD** (Associate Professor/Investigator, University of Pittsburgh U54 O'Brien Center)
Crossing the disciplinary divide to chase the phantom of bladder permeability
- 11:45 **Heidi Wendell Brown, MD** (Former K12 Scholar, UW-Madison Multidisciplinary KURe Program)
The impact equation: relative reach and efficacy of continence promotion efforts
- 12:00 **Indira Mysorekar, PhD** (PI, Washington University P20 Center)
Cystitis cystica and recurrent UTIs in postmenopausal women
- 12:15 **Anne-Catrin Uhlemann, MD, PhD** (Co-PI, Columbia University U54 O'Brien Center)
Infection! What we are up against?
- 12:30 **Pei Zhong, PhD** (PI, Duke University P20 Center)
Surgical management of urolithiasis: mechanism of stone damage in a new era of laser lithotripsy
- 12:45 **Kyle Wood, MD** (Associate Professor/Investigator, University of Alabama at Birmingham P20 Center)
Management of urolithiasis in obese patients
- 1:00 **Moderated discussion (15 min)** – led by session moderators

1:15 **Announce “best poster” and “best abstract” winners**

1:25 pm **50-MINUTE OPTIONAL INFORMATION SESSIONS – Drop in, drop out**

Room 1: **What is CAIRIBU?** *Kris Penniston, PhD; PI, NIDDK Urology Centers Program U24 Interactions Core*

Room 2: **Columbia University U54 O'Brien Center** – *PIs, Jonathan Barasch, MD, PhD; Ali Gharavi, MD; Cathy Mendelsohn, PhD; and Anne-Catrin Uhlemann, MD, PhD*

Room 3: **NIDDK Program Officers** - *Drop in Q&A*

2:15pm **KEYNOTE LECTURE**

Mark Nelson, PhD, Distinguished Professor and Chair, Department of Pharmacology, University of Vermont; and Member, National Academy of Sciences
- Benign GU Research: Past, Present, and Future

SCIENTIFIC SESSION 3: BASIC SCIENCE RESEARCH

Moderators – **Petra Popovics, PhD** (K12 Scholar, UW-Madison KURe Program) and **Guillermo Villegas, PhD** (Post-doctoral researcher, Albert Einstein College of Medicine P20 Center)

- 3:00pm **Kelvin Davies, PhD** (PI, Albert Einstein College of Medicine P20 Center)
Applying nanotechnology to the treatment of benign urologic disease
- 3:15pm **Don DeFranco, PhD** (Professor/Investigator, University of Pittsburgh U54 O'Brien Center)
Mitochondria dysfunction in benign prostatic hyperplasia

[Friday, December 4, continued]

- 3:30 **Teresa Liu, PhD** (K12 Scholar/K01 Awardee, UW-Madison KURe Program and U54 O'Brien Center)
Effects of aging in the prostate
- 3:45 **Chad Vezina, PhD** (Project Leader, UW-Madison U54 O'Brien Center)
Segregating urinary phenome responses to microbes and other factors – new opportunities
- 4:00 **Tatyana Sysoeva, PhD** (Former K12 Scholar; currently Asst. Prof. at Univ of Alabama in Huntsville)
Interactions of commensal urinary Lactobacilli with urinary pathogens
- 4:15 **John Brannon, PhD** (Postdoctoral research fellow, Vanderbilt University P20 Center)
Vaginal intracellular reservoirs in recurrent urinary tract infection
- 4:30 **Anne (“Hanneke”) Verstegen, PhD** (Instructor in Medicine, Harvard University P20 Center)
Sensory signal to motor action; from bladder fullness to micturition event
- 4:45 **Greg Whittemore** (Medical school student, Columbia University P20 Center)
Never in the urinary tract – causing urinary tract malformations: the case of TBX6
- 5:00 **Cathy Mendelsohn, PhD** (Co-PI, Columbia University U54 O'Brien Center)
Specification of urothelial cell types during homeostasis and after injury
- 5:15 **Moderated discussion (15 min)** – led by session moderators



After this session, join
CAIRIBU meeting
participants in a
virtual happy hour

CONCLUSION

5:30 pm Concluding comments and adjournment



CAIRIBU



National Institute of
Diabetes and Digestive
and Kidney Diseases

CAIRIBU PARTNERS AND COLLABORATORS

NIDDK PROGRAM OFFICERS

- **Christopher Mullins, PhD**; Director of Basic Cell Biology Programs, Div. of Kidney, Urologic and Hematologic Diseases
- **Tamara Bavendam, MD, MS**; Senior Scientific Officer and Program Director, Women's Urologic Health

UROLOGY CENTERS PROGRAM INTERACTIONS CORE

- Kristina Penniston, PhD; PI, NIH/NIDDK U24 UW-Madison Urology Interactions Core (U24-DK-127726)
- Betsy Rolland, PhD, MLIS; Co-Investigator

CENTERS EXTERNAL EXPERTS PANEL (EEP)

Mark Nelson, PhD, University of Vermont (chair); Shuk-Mei Ho, PhD, University of Arkansas; Dean Assimos, MD, University of Alabama at Birmingham; Cecelia Lo, PhD, University of Pittsburgh; Craig Peters, MD, University of Texas Southwestern

CAIRIBU CENTERS AND PROGRAMS

George M. O'Brien Urology Cooperative Research Centers Program

Columbia University, University of Wisconsin-Madison, University of Pittsburgh

Exploratory Centers for Interdisciplinary Research in Benign Urology

Columbia University, Harvard University, University of Alabama at Birmingham, Washington University, NorthShore University HealthSystem-Purdue University, Duke University, University of Tennessee, Vanderbilt University, Albert Einstein College of Medicine, Medical College of Wisconsin, Children's Hospital of Philadelphia

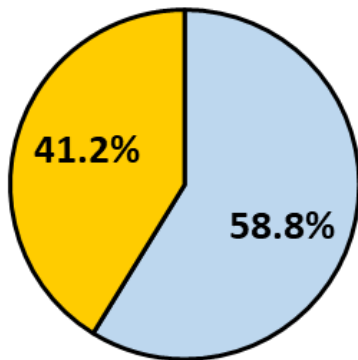
K12 Career Development Programs

- (KUroEpi) Urological Epidemiology Institutional Research Career Development Programs
 - University of Michigan, University of San Francisco-Kaiser Permanente
- (KURe) Multidisciplinary Urologic Research Career Development Program
 - Duke University, University of Wisconsin-Madison

CAIRIBU DEMOGRAPHICS

Number of unique investigators and trainees		182
• Number men		107
• Number of women		75
Number of established investigators	(PIs, collaborators, project leaders)	99
• <i>Number of PIs/Co-PIs</i>		28
Number of early investigators	(Post-docs, assistant faculty, K scholars)	43
• <i>Number of K scholars</i>	<i>(Current K scholars)</i>	14
Number of trainees	(Fellows, residents, students)	40
Number of Centers and Programs		
• U54 George M. O'Brien Centers		3
• P20 Exploratory Centers		11
• K12 Career Development Programs		4
○ <i>KUroEpi Programs</i>		2
○ <i>KURe Programs</i>		2

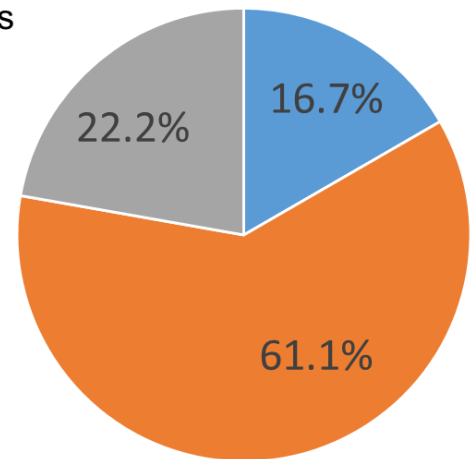
Men and Women in CAIRIBU



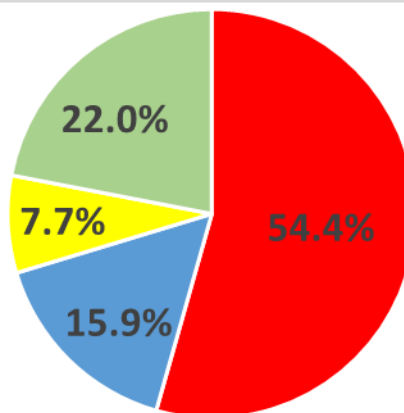
Men Women

Investigators and trainees by program type

U54
P20
K12



Breakdown of CAIRIBU investigators by career stage



Established investigators (PIs, collaborators, project leaders, etc.)
Early investigators (includes opp pool awardees & post-docs)
K scholars and K alumni
Trainees/fellows/students