

Oct. 2019

NIH-NIDDK



CAIRIBU COMMUNITY NEWS



Collaborating for the Advancement of Interdisciplinary Research in Benign Urology - Internal Interactions Newsletter. This monthly newsletter is aimed at enhancing communications between NIDDK-funded investigators from U54s, P20s, and K12s working in the area of benign urology, facilitating sharing of knowledge and accomplishments, and providing timely and relevant research-related news, announcements, and updates.

MISSION STATEMENT

As a collaborative network of transdisciplinary research centers, investigators within the CAIRIBU community will **foster collaboration across multiple basic science and clinical disciplines to identify and address gaps in knowledge related to the biology, physiology, biochemistry, genomics, genetics, and metabolism of benign urologic diseases.** Our overarching goals are to (1) **support the next generation of urologic researchers** by providing meaningful education and mentoring; (2) **enhance knowledge of mechanisms** associated with normal development, function, and disease pathology related to the urinary tract, kidney, and prostate; (3) **cultivate new research tools and ideas** by expanding the collaborative network within and outside of the traditional urologic research field; and (4) use the knowledge and tools generated from our collaborative work to **reduce the burden of benign urologic illness and disability** by developing and testing new therapies to effectively treat, manage, and prevent these diseases. CAIRIBU aims to create a transdisciplinary infrastructure to promote benign urologic research collaborations – including those that integrate social, behavioral, and biological sciences – encourage and embrace new investigators into the field, train and mentor the next generation of benign urologic basic scientists and clinician scientists, and develop and share resources and new tools to enhance urology research.

CAIRIBU MEETING UPDATE

Register and make hotel reservations as soon as possible. Absolute deadline is November 8. Go [here](#).

Get your abstracts ready! **Deadline is November 8.** There are 2 poster sessions scheduled for the meeting, both on Thursday, Dec. 5. One session will be comprised of up to 15 particularly meritorious abstracts (review committee TBD). Each presenter will have 3 min to present their work. The remainder of the session is for poster viewing and one-on-one discussion. The second session will be for all remaining abstracts. Posters will be grouped by theme; “best poster” awards will be given. Presenters will have 1 min to give a “flash talk,” followed by poster viewing and discussion. Go [here](#) for tips on giving “flash talks” (look under “Other Resources”). The article, “Elevator pitches for scientists” is particularly useful. Also, download a **SAMPLE ABSTRACT TEMPLATE** [here](#).

MEETINGS & OTHER REMINDERS

- Oct 3 **ABSTRACT DEADLINE for SUFU 2020**
- Oct 7-8 **NIDDK workshop**, “Uncovering the Hidden Burden of Benign Genitourinary Conditions” (NIH HQ in Bethesda, MD)
- Oct 10 **O'Brien Centers Steering Committee meeting** via Webex, 4:00 PM EASTERN
- Oct 25 **Columbia U54 O'Brien Center symposium**, “The Microbiome of the Urogenital Tract and Its Immune Defense,” Fri., Oct. 25, 8-5 pm
- Oct 29-Nov 2 **World Congress of Endourology** (Abu Dhabi)
- Nov 1 **ABSTRACT DEADLINE for 2020 AUA**
- Nov 7 CAIRIBU “pre-meeting” at SBUR**
- Nov 7-11 **SBUR**, 2019 annual meeting (New Orleans)
CAIRIBU presenters include:
 - Tim Ratliff (Saturday 9:00 am)
 - O'Brien Centers PIs (Saturday 10:15 am)
 - Indira Mysorekar (Saturday 11:30 am)
 - Tom Chi (Saturday 11:45 am)
 - Simon Hayward (Saturday 12 noon)
 - Wade Bushman (Sunday 9:30 am)
 - Jill Macoska (Sunday 10:10 am)
- Nov 14 **CAIRIBU Webex meeting**, 4PM EASTERN
- Dec 4-6 **CAIRIBU annual meeting** (Kansas City Marriott Airport Hotel, Kansas City, MO)
- Dec 6-7 **Stone Lab Scientific Symposium**, joint effort of the AUA and the Endourological Society (AUA HQ, Linthicum, MD)
- Feb 25-29 **SUFU**, 2020 winter meeting (Scottsdale, AZ)
- Apr 24-25 **ROCK Society** annual mtg (Birmingham, AL)

WELCOME NEW P20 CENTERS

- Pei Zhong, PhD, Duke University: *Improving mechanistic understanding and treatment efficiency of laser lithotripsy*
- Georgi Petkov, PhD, University of Tennessee: *Developmental center for human urinary bladder myogenic mechanisms by ion channels in health and disease*
- Maria Hadkijfrangiskou, PhD, Vanderbilt University: *The Vanderbilt urologic infection repository, a resource for personalized clinical discovery*
- Kelvin Davies, PhD, Albert Einstein College of Medicine: *Development of a nanotechnology resource center to advance urological research*

Has your Center developed research resources (protocols, techniques, metadata, videos, tutorials, podcasts, etc)?
Send to Kris for posting on CAIRIBU website.

Duke KURe Program Invites LOIs for New K Scholars

Qualified clinical, translational, and basic science researchers with an interest in benign urological diseases may apply to the **Duke Multidisciplinary K12 Urologic Research Career Development Program**. **KURe scholars will receive mentoring and salary support up to \$100,000 per year** for up to 5 years as well as up to \$40,000 to support research related activities, supplies, equipment, technical personnel, tuition for didactic or career development courses, and travel to research meetings. **Click here for more information about letters of intent.** Submit your letter early; you will receive notification when to submit a full application. Contact Cindy.Amundsen@duke.edu or Friederike.Jayes@duke.edu



Kristina Penniston, Director of Interactions
penn@urology.wisc.edu | 608.265.9797
Tamara Bavendam, Project Scientist
tamara.bavendam@nih.gov
Chris Mullins, Program Official
mullinsc@extra.niddk.nih.gov

Click [HERE](#) for “EUREKA!,” the AUA’s research news & funding digest

Are you presenting a poster at SBUR?

If so, please send title & authors' names to Kris. We'd like to cite all of the CAIRIBU research during Saturday's O'Brien Center panel.

The items below are available on the CAIRIBU website, <https://niddkcairibu.urology.wisc.edu>

CAIRIBU AWARD NEWS

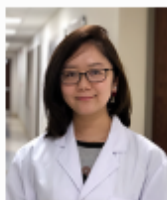
Building Collaborations...

Lianna Myklebust (center in photo) was a student in the **Summer Program for Undergraduate Urological Research (SPURR)**, the student enrichment program of the University of Wisconsin-Madison U54 O'Brien Center. She received a **CAIRIBU Research Training and Development Award** to spend 2 weeks this summer at the **University of Pittsburgh U54 O'Brien Center**. While there, she learned a wholemount prostate clearing method in Dr. Alan Watson's lab which she brought back to the UW-Madison O'Brien Center to train others. Additionally, she provided Dr. Don DeFranco with training on a multiplex staining technique for human tissue slides, a technique she learned while in the UW-Madison O'Brien Center SPURR program.



FROM THE UNIVERSITY OF PITTSBURGH GEORGE M. O'BRIEN UROLOGY CENTER (U54):

- **Wei Chen, PhD**, was awarded a "[Research Scholar](#)" award for 2019-2021 from the American Urological Association. Her project is entitled, "*The role of stromal cells in epithelial proliferation in benign prostate hyperplasia (BPH)*." Dr. Chen is mentored by **Zhou Wang, PhD**, PI of the [University of Pittsburgh O'Brien Center](#).

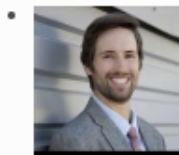


Wei Chen, PhD

FROM THE UNIVERSITY OF WISCONSIN-MADISON GEORGE M. O'BRIEN UROLOGY CENTER (U54):

- **Diya Binoy Joseph, PhD**, was the 2018 recipient of the UW-Madison Cellular and Molecular Biology Graduate Program "[Exceptional Thesis](#)" Award. Dr. Joseph studied in the laboratory of **Chad Vezina, PhD**, a Project Leader in the [UW-Madison O'Brien Center](#). Her thesis was titled, "*The role of DNA methylation in lower urinary tract development and prostate development and regeneration*." During her research, she discovered that mesodermal Wolffian duct cells are able to regenerate bladder epithelium, a finding with implications for regenerative medicine. Dr. Joseph will continue her studies at the University of Texas Southwestern.
- **Kyle Wegner**, a PhD candidate in the laboratory of UW-Madison O'Brien Center Project Leader **Chad Vezina, PhD**, was first author on a publication in *BIO*, "[Edar is a downstream target of beta-catenin and drives collagen accumulation in the mouse prostate](#)."

FROM THE UNIVERSITY OF CALIFORNIA SAN FRANCISCO UROLOGIC EPIDEMIOLOGY (UROEPI) K12 CAREER DEVELOPMENT PROGRAM:



Dr. Scott Bauer

UCSF K12 scholar **Scott Bauer, MD** was awarded a UCSF **Claude D. Pepper Older American Independence Centers Research and Education Component Award** for his proposal, "*Prevalence of Frailty Among Older Men with Lower Urinary Tract Symptoms*." Dr.

Bauer was also accepted to the National Institute on Aging's 2019 **Butler-Williams Scholar Program**, which supports emerging researchers conducting research relevant to the health of older adults. During his K12 scholarship tenure, Dr. Bauer has been mentored by [UCSF UroEpi K12](#) co-directors **Alison Huang, MD, MAS, MPhil**, and **Stephen Van Den Eeden, PhD**.

FROM THE DUKE MULTIDISCIPLINARY K12 UROLOGIC RESEARCH (KURE) CAREER DEVELOPMENT PROGRAM:

- Former Duke K12 scholar **Hae Woong Choi, PhD** was appointed **Assistant Professor** in the Department of Life Sciences, Section of Immunology and Microbiology at **Korea University** in Seoul. During his KURE training, under the mentorship of Duke KURE director **Cindy Amundsen, MD**, Dr. Choi used germ-free mice to study age-associated changes in immune function and to compare host protective immune response profiles between young and old mice. He has a particular interest in how the microbiome influences the bladder immune cells.



Hae Woong Choi, PhD

- Duke K12 scholar **Eric Gonzalez, PhD** was awarded a **NIDDK Ko1 award** (2019-2023) for his proposal entitled, "*Underactive bladder: mechanisms and recovery of sensation and function*." With this award, Dr. Gonzalez will continue his translational research in underactive bladder, which was initiated under the mentorship of **Dr. Cindy Amundsen**, the Roy T. Parker Professor in Obstetrics and Gynecology, Urogynecology and Reconstructive Pelvic Surgery, and Associate Professor of Surgery in the Division of Urology at Duke University Medical Center.



Eric Gonzalez, PhD