

53rd MEETING of the LAKE CUMBERLAND BIOLOGICAL TRANSPORT GROUP



**Pumpkin Creek Lodge
June 17 to June 20, 2018**

**Sunday, June 17th, Pumpkin Creek Lodge
Greetings, Heavy Appetizers, & Registration
6:00 - 8:00 PM (Central Daylight Time)**

**Bring your family and colleagues. Don't forget your own
favorite dish to share!**

(Fruit/Vegetables/Cheese/Dessert/Entrée)

Beverages and Table Service will be provided.



8:00 – 8:15 PM **Opening remarks - Jim Clack**

SUNDAY EVENING, JUNE 17th – *GI System*

Session Chair: Roger Worrell

8:15 – 8:45 PM **Intestinal Stem Cells Enteroids Culture to Investigate the Role of NKCC1 in Gut Pathophysiology**

Rainelli Koumangoye & Eric Delpire

Department of Anesthesiology, Vanderbilt University, Nashville, TN

8:45 – 9:15 PM **Essential roles of the BK channel for colonic K⁺ secretion**

Dan Halm

Wright State University

9:15 PM - ? **Refreshment & further discussion**

MONDAY MORNING, JUNE 18th – *Neurons, TPV4*

8:00 – 9:00 AM *Breakfast*

Session Chair: Bonnie Blazer-Yost

9:00 – 9:30 AM **The importance of KCC3 in neuronal homeostasis**

Bianca Flores, Cara Schornak, and Eric Delpire

Neuroscience Graduate Program and Department of Anesthesiology,
Vanderbilt University, Nashville, TN

9:30 – 10:00 AM **Using Fluorescent Dextran to Trace Neuronal Populations in the Spinal Cord**

Cara Schornak & Eric Delpire

Neuroscience Graduate Program and Department of Anesthesiology,
Vanderbilt University, Nashville, TN

10:00 – 10:15 AM Coffee Break

Session Chair: Manoocher Soleimani

10:15 – 10:45 AM **Characterizing a novel disease causing mutation in PRKD1 leading to peripheral neuropathy**

Salma Omer, and Eric Delpire

Neuroscience Graduate Program and Department of Anesthesiology,
Vanderbilt University, Nashville, TN

10:45 – 11:15 AM **Treatment of Hydrocephalus with TRPV4 antagonists: The TMEM67 rat model and choroid plexus cultured cell studies**

Daniel Preston & Bonnie Blazer-Yost

Department of Biology, Indiana University - Purdue University
Indianapolis

11:15 AM **Group photo – Pumpkin Creek Lodge**

MONDAY AFTERNOON, JUNE 18th

11:30 AM – 5:45 PM Free - enjoy the lake and/or the park

6:00 – 8:00 PM FAMILY DINNER: “THE LODGE” Dining room

MONDAY EVENING, JUNE 18th - TPV4, cont.

Session Chair: Mauricio Di Fulvio

- 8:30 – 9:00 PM **TRPV4 Activation - Implications in Inflammation and Neurodegenerative Disease**
Stefanie Simpson & Bonnie Blazer-Yost
Department of Biology, Indiana University - Purdue University Indianapolis
- 9:00 – 9:30 PM **TRPV4 in hydrocephalic mice: Model development for proof-of-principle studies**
Alexandra Hochstetler, Nick Berbari, & Bonnie Blazer-Yost
Department of Biology, Indiana University - Purdue University Indianapolis
- 9:30 PM - ? **Refreshment & further discussion**

TUESDAY MORNING, JUNE 19th – Kidney/NHERF1

8:00 – 9:00 AM *Breakfast*

Session Chair: Ken Gagnon

- 9:00 – 9:30 AM **Identification of a Novel Mechanism Responsible for Progression of Kidney Cysts in Tuberous Sclerosis Complex**
Manoocher Soleimani, Sharon Barone, Kamyar Zahedi, John Bissler, & Jie Xu
University of Cincinnati, University of Tennessee
- 9:30 – 10:00 AM **The metabolic and hormonal consequences of lacking NKCC2a**
Mauricio Di Fulvio
Department of Pharmacology & Toxicology, Boonshoft School of Medicine, Wright State University
- 10:00 – 10:15 AM Coffee Break

Session Chair: Eric Delpire

- 10:15 – 10:45 AM* **Aging Kidney” Role of NHERF1**
Syed Jalal Khundmiri
Department of Physiology and Biophysics, Howard University College of
Medicine, Washington, DC
- 10:45 – 11:15 AM* **Proximal Tubule Regulation of NPT2a by NHERF1**
Kenneth Gagnon, Michelle Barati, Kathleen Kitterman, Barbara Clark, &
Eleanor Lederer
Department of Medicine, University of Louisville

TUESDAY AFTERNOON, JUNE 19th

11:15 AM – 7:15 PM **Free - enjoy the lake and/or the park**

TUESDAY EVENING, JUNE 19th

Session Chair: Dan Halm

- 7:30 – 8:00 PM* **Sides Matter; Lessons From ENaC Studies Long Ago**
Roger Worrell
Department of Physiology, University of Cincinnati
- 8:00 – 8:15 PM* Final remarks from the Chairs
- 8:15 – 8:30 PM* Break
- 8:30 – 9:00 PM* **Business Meeting**
Reports
Meeting dates for 2021
Election of 2019 Vice Chair
- 9:00 – ?* **Refreshment & further discussion**