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 Worrel

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 Dextrans 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