

54th Annual Lake Cumberland Biological Transport Group Meeting



June 16 to June 18, 2019



Pumpkin Creek Lodge
Lake Cumberland State Resort Park
Jamestown, KY

Sunday evening, June 16th

5:00 – 7:45 pm Registration
Potluck dinner (Beverages and Table service provided)

8:00 – 8:15 pm Opening remarks – Kenneth Gagnon (2019 Chair)

Session Chair: Kenneth Gagnon

8:15 – 8:45 pm Dan Halm (Wright State University)
The colonic epithelium and potassium channel regulation.

8:45 – 9:15 pm Salma Omer (Vanderbilt University)
Establishing a metabolic phenotype in cells expressing a human mutation in NKCC1.

9:15 – 9:45 pm Sham S. Kakar (University of Louisville)
Stem Cells and cancer stem cells in oncogenesis.

Monday morning, June 17th

8:00 – 9:00 am Breakfast – Pumpkin Creek Lodge

Session Chair: Dan Halm

9:00 – 9:30 am Kenneth Gagnon (University of Louisville)
14-3-3 epsilon role in regulation of NPT2a trafficking and function.

9:30 – 10:00 am Sujay Kharade (Vanderbilt University)
A novel approach to overcoming loop diuretic resistance; thinking outside the renal tubule.

10:00 – 10:15 am Coffee break

Session Chair: Roger Worrell

10:15 – 10:45 am Kirill Zavalin (Vanderbilt University)
Excitatory to inhibitory transition in GABAergic currents guides circuit formation of cortical interneurons.

10:45 – 11:15 am Bianca Flores (Vanderbilt University)
The role of KCC3 in sensory neurons.

11:15 – 11:30 am Group photo – Pumpkin Creek Lodge

Monday afternoon, June 17th

11:30 am – 5:45 pm Free time to enjoy the lake and park
Group excursion on pontoon boats (weather permitting)
(talk to Ken Gagnon, Roger Worrell, or Jim Clack for details)

Monday evening, June 17th

6:00 – 8:00 pm Family dinner @ Lure Lodge dining room

Session Chair: Alexandra Hochstetler

8:00 – 8:15 pm Coffee available

8:15 – 8:45 pm Eric Figueroa (Vanderbilt University)
CysLT1 receptor antagonists inhibit the Volume Regulated Anion Channel independently of the receptor.

8:45 – 9:15 pm James McCarthy (Vanderbilt University)
Discovery and characterization of a novel class of phenylsulfonylpiperazine compounds as inhibitors of the Aedes aegypti Kir1 (AeKir1) potassium channel.

9:15 – 9:45 pm Toshiki Yamada (Vanderbilt University)
Functional characterization of leucine-rich repeat containing 8A (LRRC8A) homomeric channel.

Tuesday morning, June 18th

8:00 – 9:00 am Breakfast – Pumpkin Creek Lodge

Session Chair: Jim Clack

9:00 – 9:30 am Hillary Smith (IUPUI)
Preclinical testing of TRPV4 antagonists in the treatment of hydrocephalus.

9:30 – 9:50 am Tori McConnell (IUPUI)
The role of astrocytes and the ventricular zone in a ciliopathy model of hydrocephalus.

9:50 - 10:10 am McKenna Reed (IUPUI)
The role of water channels and the ventricular zone in a ciliopathy model of hydrocephalus.

10:10 – 10:30 am Coffee break

Session Chair: Kerri Rios

10:30 – 11:00 am Alexandra Hochstetler (IUPUI)
Studies of TRPV4 in hydrocephalic development: mouse models and choroid plexus epithelial cells.

11:00 – 11:30 am Daniel Preston (IUPUI)
TRPV4 in the choroid plexus epithelium: pathway analysis and implications for cerebrospinal fluid production.

Tuesday afternoon, June 18th

11:45 am – 7:00 pm Free time to enjoy the lake and park
Golf scramble?

Tuesday evening, June 18th

Session Chair: Kenneth Gagnon

7:15 – 8:15 pm	Treasurers Report – Roger Worrell Business meeting 55 th meeting June 21 st to 23 rd , 2020 56 th meeting June 20 th to 22 nd , 2021 Election of 2020 Vice-Chair Trainee prizes Closing remarks – Alexandra Hockstetler (2020 Chair)
8:15 – 8:30 pm	Coffee break
8:30 – 10:30 pm	Movie night “ The Race for the Double Helix ” starring Jeff Goldblum