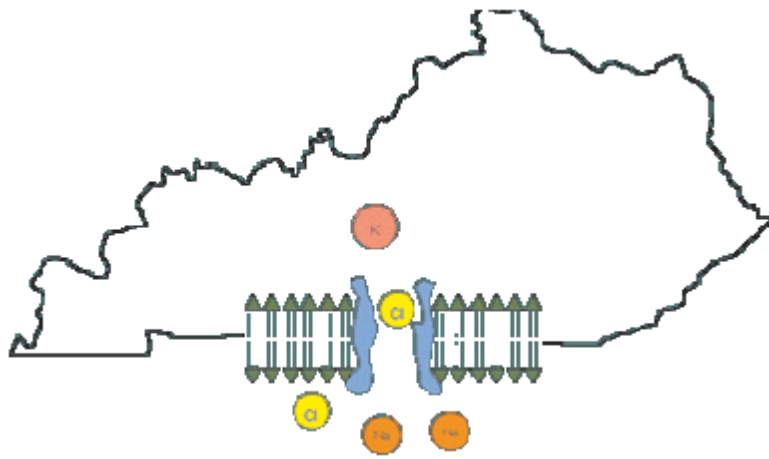


# 52<sup>nd</sup> LAKE CUMBERLAND BIOLOGICAL TRANSPORT GROUP



Pumpkin Creek Lodge  
June 18<sup>th</sup> to 20<sup>th</sup> 2017

Sunday June 18<sup>th</sup>  
Pumpkin Creek Lodge  
Greetings and registration

6:00 - 8:00 PM (Central Daylight Time)

Bring your family and colleagues and don't forget your own favorite dish to share!  
(Fruit/Vegetables/Cheese/Dessert/Entrée)

Beverages and Table Service will be provided!



LAKE CUMBERLAND BIOLOGICAL TRANSPORT GROUP 2017  
SESSION LOCATION: PUMPKIN CREEK LODGE

**SUNDAY, JUNE 18<sup>th</sup> – Evening**

8:00 – 8:15 PM Welcoming remarks, Simone Vanoni

**Session Chair: Eric Delpire**

8:15 – 8:45 PM Prevention of oxidative injury to the neonatal heart

**Darryl Peterson**, H. Huang, D. Peresada, J. Beltran, M. Huynh, C. Santiago, E. Sukowski, C. White, J. Radhakrishnan, G. Stefanov, R. Vazzalwar.

*Chicago Medical School, North Chicago, IL; Advocate Children's Hospital, Park Ridge, IL*

8:45 – 9:15 PM Effect of nanoparticles on K transport and glutathione in human red blood cells

**Norma C. Adragna**<sup>1</sup>, Praveen K. Alla<sup>1</sup>, Nedu C. Ihezurike<sup>1</sup>, Ioana Pavel<sup>2</sup>, Shesha L.A. Paluri<sup>2</sup>, Adam de la Zerda<sup>3</sup>, Elliott SoRelle<sup>3</sup>, Jerome Yaklic<sup>4</sup> and Peter K. Lauf<sup>1,5</sup>.

Departments of Pharmacology & Toxicology<sup>1</sup>, Chemistry<sup>2</sup>, Obstetrics & Gynecology<sup>4</sup> and Pathology<sup>5</sup>, Boonshoft School of Medicine<sup>1,4,5</sup> and College of Science and Mathematics<sup>2</sup>, Wright State University. Departments of Structural Biology<sup>3</sup> and Electrical Engineering<sup>3</sup>, Stanford University.

From 9:15 PM on Refreshment and mingling time

**MONDAY, JUNE 19<sup>th</sup> – Morning**

8:00 – 9:00 AM Breakfast

**Session Chair: Simone Vanoni**

9:00 – 9:30 AM That's BK with me: How transepithelial K<sup>+</sup> secretion contributes to exo-epithelial fluids that stabilize our interactions with the environment

**Dan Halm**

*Department of Neuroscience, Cell Biology, and Physiology; Wright State University*

9:30 – 10:00 AM

**KCC2 regulation of insulin secretion**

**Mauricio Di Fulvio**, Shams Kursan <sup>1</sup>, Timothy McMillen <sup>2</sup>, Pavani Beesetty <sup>3</sup>, Eduardo Dias-Junior <sup>1</sup>, Mohammed Almutairi <sup>1</sup>, Abu Sajib <sup>4</sup>, Ashot Kozak <sup>3</sup>, Lydia Aguilar-Bryan <sup>2</sup>

<sup>1</sup>Pharmacology and Toxicology, Wright State University, School of Medicine, Dayton, OH. <sup>2</sup>Pacific Northwest Diabetes Research Institute, Seattle, WA.

<sup>3</sup>Department of Neuroscience, Cell Biology and Physiology, Wright State University, School of Medicine, Dayton, OH. <sup>4</sup>Department of Genetic Engineering and Biotechnology, University of Dhaka, Bangladesh.

10:00 – 10:15 AM

Coffee Break

**Session chair: Peter Lauf**

10:15 – 10:45 AM

**Differential effects of sterols on ion channels: stereospecific binding vs. stereospecific intramolecular signaling**

**Irena Levitan**, Nicolas Barbera

*University of Illinois*

10:45 – 11:15 AM

**Through a glass darkly: forty years of vision research**

**James W. Clack**

*Department of Biology, Indiana University - Purdue University, Columbus, IN*

11:15 AM

**Group photo – Pumpkin Creek Lodge**

**MONDAY, JUNE 19<sup>th</sup> – Afternoon**

11:30 AM – 5:45 PM

**Free for enjoy the lake and/or the park**

5:45 – 7:45 PM

**FAMILY DINNER: “THE LODGE” Dining room**

**MONDAY, JUNE 19<sup>th</sup> – Evening**

**Session Chair: Darryl Peterson**

8:00 – 8:30 PM      **Effects of a TRPV4 Antagonist on Hydrocephalus in Wpk Rat Model**  
**Caleb Danko**, Daniel Preston, Stefanie Simpson, Bonnie Blazer-Yost  
*Biology Department, Indiana University – Purdue University, Indianapolis*

8:30 – 9:00 PM      **TRPV4 Expression in Normal and Hydrocephalic Rat Choroid Plexus**  
**Stefanie Simpson**, Andrea Scherer, Daniel Fulkerson, and Bonnie Blazer-Yost  
*Biology Department, Indiana University – Purdue University, Indianapolis and  
Department of Neurosurgery, Indiana University School of Medicine*

9:00 – 9:30 PM      **TRPV4-mediated Ion Transport in a Porcine Choroid Plexus Cell Line**  
**Daniel Preston**, Stefanie Simpson, Caleb Danko, Christian Schwerk, Horst  
Schroten, Bonnie Blazer-Yost  
*Biology Department, Indiana University – Purdue University, Indianapolis and  
Mannheim Medical Faculty, University of Heidelberg, Germany*

From 9:30 PM on      **Refreshment and mingling time**

**TUESDAY, JUNE 20<sup>th</sup> – Morning**

8:00 – 9:00 AM      Breakfast

**Session Chair: Roger Worrell**

9:00 – 9:30 AM      **Of water and nerves: an undiagnosed disease program case**  
**Bianca Flores** and Eric Delpire  
*Neuroscience Graduate Program and Department of Anesthesiology, Vanderbilt  
University Medical School, Nashville, TN*

9:30 – 10:00 AM

**The role of KCC3 in motorneurons**

**Cara Schornak** and Eric Delpire

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

10:00 – 10:15 AM

Coffee Break

**Session Chair: Bonnie Blazer-Yost**

10:15 – 10:45 AM

**NKCC1: A novel mouse model of a UDP Case**

**Salma Omer** and Eric Delpire

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

10:45 – 11:15 AM

**A NKCC1 Truncation Mutation Results in Epithelial Dysfunction**

**Rainelli Koumangoye**, Salma Omer and Eric Delpire

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

**TUESDAY, JUNE 20<sup>th</sup> – Afternoon**

11:30 AM – 7:45 PM

**Free to enjoy the lake and/or the park**

**TUESDAY, JUNE 20<sup>th</sup> – Evening**

**Session Chair: James W. Clack**

7:45 – 8:15 PM

**To Be defined**

**Charity Nofziger**

8:15 – 8:45 PM

**Teasing apart the forward trafficking of NPT2a**

**Kenneth Gagnon**, Michelle Barati, Michael Merchant, Eleanor Lederer

*Department of Medicine, Division of Nephrology and Hypertension, University of Louisville*

*8:45 – 9:00 PM*

**Final remarks: Simone Vanoni and James W. Clack**

*9:00 – 9:15 PM*

Refreshment break

*9:15 – 9:45 PM*

**Business meeting:**

**-Reports**

**-Meeting dates for 2020**

**-Election of vice chair for 2018**