

2024 PROGRAM



UAB Comprehensive Neuroscience Center

ANNUAL RETREAT

September 5-6, 2024

Lake Guntersville State Park
Lodge and Convention Center



COMPREHENSIVE NEUROSCIENCE CENTER

The University of Alabama at Birmingham

About the CNC

Established as University Wide Interdisciplinary Research Center in 2009 the UAB Comprehensive Neuroscience Center (CNC) is a network of more than 500 UAB neuroscience research faculty, clinicians, staff, students, and trainees from 32 UAB departments and 9 UAB schools. The CNC serves as a focal point for basic and applied neuroscience research at UAB.

Mission

The overall mission of the CNC is to promote and support interdisciplinary neuroscience research, clinical care and education at UAB.

Leadership



Jeremy Day, PhD

Director
Associate Professor
Department of Neurobiology
UAB Heersink School of Medicine



Karen Gamble, PhD

Associate Director for Research
Professor
Department of Psychiatry
UAB Heersink School of Medicine



Lawrence Sincich, PhD

Associate Director for Grants in Preparation (GRiP)
Professor
Department of Optometry & Vision Science UAB
School of Optometry



Kristina Visscher, PhD

Associate Director for Outreach
Associate Professor
Department of Neurobiology
UAB Heersink School of Medicine



Larry Ver Hoef, MD

Associate Director for Clinical Neuroscience
Associate Professor
Department of Neurology
UAB Heersink School of Medicine



Audrey Coachman, MHA

Program Manager II



COMPREHENSIVE NEUROSCIENCE CENTER

The University of Alabama at Birmingham

2024 Keynote Speaker



Paul Kenny, PhD

**Ward-Coleman Professor and Chair,
Nash Family Department of Neuroscience**

Icahn Schools of Medicine at Mount Sinai

Director, Drug Discovery Institute at Mount Sinai

Visit Profile

Dr. Paul Kenny is the Ward-Coleman Professor and Chair of the Nash Family Department of Neuroscience at the Icahn Schools of Medicine at Mount Sinai in New York. Dr. Kenny also serves as Director of the Drug Discovery Institute at Mount Sinai. He received a degree in biochemistry from Trinity College Dublin and his Ph.D. in neuropharmacology from King's College London. Research in Dr. Kenny's laboratory is focused on the molecular and cellular neurobiology of drug addiction, obesity, and schizophrenia. Dr. Kenny is a co-founder of Eolas Therapeutics, which develops small molecule therapeutic agents for the treatment of brain disorders. Dr. Kenny has served as a senior editor for the Journal of Neuroscience. He was a member of the Advisory Councils of the National Institute on Drug Abuse (NIDA) and the National Institute on Alcohol Abuse and Alcoholism (NIAAA). He is a member of the National Institutes of Health Council of Councils (CoC) that reports directly to the NIH Director. Dr. Kenny is the recipient of numerous awards for his research, including the Annual Alton Ochsner Award from the Ochsner Health System, the Daniel H. Efron Research Award from ACNP, the Jacob P. Waletzky Memorial Award from the Society for Neuroscience and the Tom Connor Distinguished Investigator Award, Neuroscience Ireland, and a MERIT award from NIDA.



COMPREHENSIVE NEUROSCIENCE CENTER

The University of Alabama at Birmingham

Sponsors

Gold Level (\$1,000 - \$2,000)



Silver Level (\$500 - \$1,000)



Thank You to our 2024 Retreat Sponsors!



COMPREHENSIVE NEUROSCIENCE CENTER

The University of Alabama at Birmingham

Location

The 2024 CNC Retreat will be held at the Lake Guntersville State Park Lodge and Convention Center in Guntersville, Alabama.

Lake Guntersville State Park Lodge and Convention Center

1155 Lodge Dr. Guntersville, AL 35976

(256) 505-6621

[Map](#)

[Website](#)





COMPREHENSIVE NEUROSCIENCE CENTER

The University of Alabama at Birmingham

Thursday, September 5, 2024

9 - 10 am
Upper Lobby

Arrival and registration

10 am
Camellia Room

Welcome & State of the CNC address

Jeremy Day, PhD
Director, UAB Comprehensive Neuroscience Center
Michael J. Friedlander Heersink Endowed Professorship Associate
Professor, Department of Neurobiology

10:30 am

Keynote Speaker

Cellular mechanisms of opioid reward and aversion

Paul Kenny, PhD
Ward-Coleman
Professor and Chair, Nash Family Department of Neuroscience
Icahn Schools of Medicine at Mount Sinai
Director, Drug Discovery Institute at Mount Sinai

11:30 am
Main Dining Room

Lunch & Networking

12:30 pm
Camellia Room

UAB Faculty Session I (Moderator: Dr. Lawrence Sincich)

Engram programming in movement disorders

Karen Jaunaraajs, PhD
Assistant Professor, Department of Neurology

Tuning Brain Glycan Symphony Towards Repair In Stroke Using Engineered Biomaterials

Juhi Samal, PhD
Assistant Professor, Department of Biomedical Engineering

The Pten Mouse Model for Autism Spectrum Disorder

Byran Luikart, PhD
Assistant Professor, Department of Neurobiology



COMPREHENSIVE NEUROSCIENCE CENTER

The University of Alabama at Birmingham

Thursday, September 5, 2024

1:30 pm

Break

1:45 pm

Camellia Room

Trainee Oral Presentation Session (Moderator: Dr. Kristina Visscher)

The mouse dorsal peduncular cortex encodes fear memory

Zephyr Desa, Graduate Student- Cummings Lab

The rostral lateral septum drives estrous cycle state-dependent suppression of cued threat memory

Nina Baumgartner, Postdoc- Lucas Lab

Tabernanthalog Reduces Motivation for Heroin and Alcohol in a Polydrug Use Model

Nathaniel Kregar, Graduate Student- Peters Lab

Role of infralimbic cortex inhibitory neurons in the extinction of auditory fear memory

Rodrigo Campos Cardoso, Postdoc- Cummings Lab

Sniffing out olfactory neuroregeneration: neurogenesis in the context of Alzheimer's disease

Lynne Nacke, Staff- Saxena Lab

Carboxy-terminal blockade of sortilin binding enhances progranulin gene therapy, a potential treatment for frontotemporal dementia

Stephanie Fox, Postdoc- Roberson Lab

3:30 pm

Activities

Indoor options:

Video Games: Camellia Room

Board Games: Board Room

Billiards Games: Billiards

Outdoor options:

Golf (sign up required): Meet up point- Main Lobby

Walking: Meet up point- Terrace (Left side) [MAP](#)

Hiking: Meet up point- Fireplace [MAP](#)

Birdwatching: Meet up point- Upper Lobby [MAP](#)

Mushroom foraging: Terrance (Right side)

Room check-in 4pm-6pm

(Check your email for your check-in area)

5:30 pm

Goldenrod Room

Poster session #1

(Cash Bar located at Conference Center Fireplace)

7:00pm

Grandview Room

Dinner



COMPREHENSIVE NEUROSCIENCE CENTER

The University of Alabama at Birmingham

Friday, September 6, 2024

8 am
Main Dining Room

Breakfast

8:30 am
Camellia Room

CNC Pilot Award Session (Moderator: Karen Gamble)

Cognitive Function in psychotic disorders

Junghee Lee, PhD

Associate Professor, Department of Psychiatry & Behavioral Neurobiology

Regulation opioid relapse by pallidal parvalbumin neurons

Jasper Heinsbroek, PhD

Assistant Professor, Department of Neurobiology

9:30 am
Goldenrod Room

Poster Session #2

11 am
Main Dining Room

Lunch & Networking

Noon
Camellia Room

UAB Faculty Session II (Moderator: Dr. Jeremy Day)

Beyond dopamine: multi-neuromodulator dynamics during learning and decision-making

Kaue Costa, PhD

Assistant Professor, Department of Psychology

Exploring T cells in the Aging Brain

Daniel Tyrell, PhD

Associate Professor, Department of Pathology

Dopamine D1 receptor activation is sufficient to drive reinforcement in the cortex

Nuria Vendrell- Llopis, PhD

Assistant Professor, Department of Electrical and Computer Engineering

1 pm

Presentation Awards and Closing Remarks



COMPREHENSIVE NEUROSCIENCE CENTER

The University of Alabama at Birmingham

Trainee Presentations & Awards

Trainee platform presentations were selected from the submitted abstracts by a panel of Judges.

Awards will be given for both platform and poster presentations.

Platform (oral) presentation awards:

1st Place- \$500

2nd Place- \$250

3rd place- \$100

Poster presentation awards:

1st Place- \$500

2nd Place- \$250

3rd place- \$100

Poster Presentations:

Session #1: Thursday from 5:30-7 p.m.

Session #2: Friday from 9:30- 11 a.m.



COMPREHENSIVE NEUROSCIENCE CENTER

The University of Alabama at Birmingham

Poster Presentations

1. *Characterization of Electrophysiological Properties of Trigeminal Ganglion Neurons That Innervate the Maxillary Sinus in Mice*
Saurav Gupta, Jennifer Ling
Session: Thursday, 5:30-7 p.m.
2. *Uncovering Alzheimer's disease-specific isoform diversity through single cell long-read transcriptomics*
Dev Raj Bhattarai, Jenna Ekstrom, Lindsay Rizzardi
Session: Thursday, 5:30-7 p.m.
3. *Reelin marks cocaine-activated striatal ensembles, promotes neuronal excitability, and regulates cocaine reward*
Kasey L. Brida, Emily T. Jorgensen, Robert A. Phillips III, Cathy Newman, Jennifer J. Tuscher, Emily K. Moring, Morgan E. Zipperly, Lara Ianov, Kelsey Montgomery, Madhavi Tippani, Thomas M. Hyde, Kristen R. Maynard, Keri Martinowich, & Jeremy J. Day
Session: Thursday, 5:30-7 p.m.
4. *Neuronal activation by cocaine varies across molecularly-defined subpopulations of VTA dopamine neurons*
N. Dalton Fitzgerald, Lydia Slocum
Session: Thursday, 5:30-7 p.m.
5. *Cell-type-specific alternative splicing in the cerebral cortex of a Schinzel-Giedion Syndrome patient variant mouse model*
Emma F. Jones, Timothy C. Howton, Tabea M. Soelter, Anthony B. Crumley, Brittany N. Lasseigne
Session: Thursday, 5:30-7 p.m.
6. *Molecular Regulation of Neuronal Maturation in Post-Natal Mouse Brain*
Verdion Martina, Dalton Patterson, Terry Lewis, HaoSheng Sun
Session: Thursday, 5:30-7 p.m.
7. *Analysis of brain-wide projections to the mouse dorsal peduncular cortex*
Brianna L. Fitzgerald, Rodrigo Campos Cardoso, Victoria Landar, and Kirstie A Cummings
Session: Thursday, 5:30-7 p.m.
8. *Understanding the Roles for CD38 in astrocyte-neuronal crosstalk: Implications for Parkinson's Disease and Circadian Regulation*
Navya Gullapalli, Laura J. McMeekin, Derek Dang, Michelle L. Olsen, Jamil Saad, Frances E. Lund, Karen Gamble, Rita M. Cowell
Session: Thursday, 5:30-7 p.m.
9. *HIV-Tat disrupts amphetamine-induced non-vesicular dopamine release*
Yanqi Zhu, Mary H. Cheng, Heinrich J.G. Matthies, Clarence H. Mullins, Ivet Bahar, Angela M. Carter, Aurelio Galli
Session: Thursday, 5:30-7 p.m.



COMPREHENSIVE NEUROSCIENCE CENTER

The University of Alabama at Birmingham

Poster Presentations

10. *Estrous Cycle Regulation of Neuronal Ensembles Encoding Threat Memory within the Central and Lateral Amygdala*
Neysa S. Dechachutinan, Gaven C. Bell, Kristen H. Adcock Binion, Nina E. Baumgartner, Elizabeth K. Lucas
Session: Thursday, 5:30-7 p.m.
11. *TFE3 in Neurons: Unraveling its Function, Response to Lysosomal Stress and its localization in an ALS Mouse Model*
Samira Molaei Ramshe , Micah Simmons , Katherine Margolies , Shaida Andrabi, Sami Barmada , Andrew Arrant, Rita M. Cowell
Session: Thursday, 5:30-7 p.m.
12. *MD simulations of rare Alzheimer's disease-associated APOE isoforms, such as APOE3-Christchurch, highlight unique structural, conformational, and dynamical features*
Ryan A. Tuckey, Rory A. Greer, Hunter B. Dean, Erik D. Roberson, Yuhua Song
Session: Thursday, 5:30-7 p.m.
13. *Comparing Resting State and Stimulation Evoked Network Connectivity Using Dynamical Systems Modeling*
Caila Coyne, Sahaj Patel, Helen Brinyark, Benjamin Cox, Sridevi Sarma, Arie Nakhmani, & Rachel June Smith
Session: Thursday, 5:30-7 p.m.
14. *Gender Identity, Not Sex Assigned at Birth, May Predict Experience of Painful Stimuli for Cisgender and Transgender Individuals*
Samantha Q. Stocking, Caroline K. Webb, Shruti R. Gunapati, Nathaniel M. Goldfeiz, Ayona Roychowdhury, Stacie K. Totsch, Tammie L. Quinn, D. Leann Long, Edwin N. Aroke, Mieke B. Thomeer, Lyse A. Norian, Burel R. Goodin, & Robert E. Sorge
Session: Thursday, 5:30-7 p.m.
15. *Neural Mechanisms mediating Interoception*
Karen Aikhionbare, Hunter Franks, Morris Jackson, Briana Machen, Carine Lampert, Lauren Assaf, Julia Tucker, Dr. Kirstie Cummings, Dr. Sofia Beas
Session: Thursday, 5:30-7 p.m.
16. *Associations Between Cognitive Function, Endogenous Pain Modulation, and Pain Severity in Adults with Knee Osteoarthritis*
Pavithra A. Thomas, Daniel A. Kusko, Tammie Quinn, Burel R. Goodin, and Robert E. Sorge
Session: Thursday, 5:30-7 p.m.
17. *Functional and behavioral dynamics of GLP-1 receptors in the central amygdala*
Miguel Duran, Andrew Hardaway
Session: Thursday, 5:30-7 p.m.



COMPREHENSIVE NEUROSCIENCE CENTER

The University of Alabama at Birmingham

Poster Presentations

18. *Exploring the Biological Role of TFE3 Regulation in Neurons*
Humna Siddiqi, Samira M. Ramshe, Micah Simmons, Katherine Niebuhr, Rita M. Cowell
Session: Thursday, 5:30-7 p.m.
19. *Drugging Worms To Study Substance Abuse Disorder*
Shelby Lauzon, Prince Mosley, HaoSheng Sun
Session: Thursday, 5:30-7 p.m.
20. *Altered Gene Expression in Parvalbumin Interneurons in an Alzheimer's Disease Model*
Mary Bullock Cooper, Karen Gamble, Rita Cowell, Erik D. Roberson
Session: Thursday, 5:30-7 p.m.
21. *Inhibitory loss of Alzheimer's disease risk factor BIN1 induces network hyperexcitability and behavioral abnormalities*
M. Natalie Davis, Yuliya Voskobiynyk, J. Nicholas Cochran, Mary Cooper, Erik Roberson
Session: Thursday, 5:30-7 p.m.
22. *State-dependent connectivity and behavioral modulation in interconnected GLP-1 and GLP-1R hindbrain and hypothalamic circuitry*
Miguel Duran, Sonja A. Virkus, Christian Lopez, Kylie McMichen, Yaslle Andrade Cavalcante Moraes, Eshita Yadav, Joti Singh, Zoe Fokakis, Samantha Stocking, Samuel Poole, Chad Hunter, Kirk M. Habegger, J. Andrew Hardaway (speaker and presenter)
Session: Thursday, 5:30-7 p.m.
23. *Dynamics of Default Mode Network Activity Linked to Processing Speed in Cognitively Healthy Oldest-Old*
Coward, H, Ling, G, Nolin SA, Stewart, P, Fleming, L, Faulkner ME, Merritt S, Rezaei RF, Bharadwaj PK, Franchetti MK, Raichlen DA, Jessup CJ, Hishaw GA4, Van Etten EJ4, Trouard TP, Geldmacher D, Wadley VG, Alperin N, Porges EC, Woods AJ, Cohen RA, Levin BE, Rundek T, Alexander GE, Visscher KM
Session: Thursday, 5:30-7 p.m.
24. *Overview of the Progress of Factors in Learning and Plasticity (FLAP) at UAB*
Elliot Maxwell, Madeline Ragland, Elam Cutts, Pinar Demirayak, Hannah Cowart, Marcello Maniglia, Samyukta Jayakumar, and Kristina Visscher
Session: Thursday, 5:30-7 p.m.
25. *Innate Immune Memory of Brain Endothelial Cells in Alzheimer's Disease*
Atul Kumar, Abdellah Akil, Bin Ren
Session: Thursday, 5:30-7 p.m.



COMPREHENSIVE NEUROSCIENCE CENTER

The University of Alabama at Birmingham

Poster Presentations

26. *Optical measurements of striatal glutamatergic activity during complex motor tasks in a murine model of cortical Lewy pathology*
Zoe Fokakis, J. Andrew Hardaway, Laura Volpicelli-Daley
Session: Thursday, 5:30-7 p.m.
27. *Chromatic stimuli differentially modify neural activity of the inner and outer retina in humans*
Rohit Dhakal, Safal Khanal
Session: Thursday, 5:30-7 p.m.
28. *Long-term ketogenic and time restricted diet impacts mitochondrial function in aged rats* Brea Ford, Sarah Ding, Sara Burke, & Abbi Hernandez
Session: Thursday, 5:30-7 p.m.
29. *Effects of ketone diester supplementation on fear extinction impairments in the TgF344AD rat model of Alzheimer's disease across the lifespan*
Macy A. McCuiston, Nateka L. Jackson, Lori L. McMahon, Lynn E. Dobrunz, Caesar M. Hernandez
Session: Thursday, 5:30-7 p.m.
30. *The Role of PTEN Subcellular Localization in the Regulation of Neuronal Development* Nicole Desmet, Mackenzi Prina, Asan Abdulkareem, Meijie Li, Wei Wang, Bryan Luikart
Session: Thursday, 5:30-7 p.m.
31. *Functional connections of discrete cortical regions defined based on individuals' experiences are plastic and individual-specific*
Pinar Demirayak, Rachel Chua, Leland L Fleming, Kristina M Visscher
Session: Thursday, 5:30-7 p.m.
32. *Identifying neuronal ensembles underlying sensory-mediated actions in the rodent secondary motor cortex*
Sierra N. Miller, Carine Lampert, Cesar Acevedo, Briana L. Machen, Sheila Subbiah, Lauren E. Assaf, Julia C. Tucker, Morris R. Jackson, Lucas Pozzo-Miller, Sofia Beas
Session: Thursday, 5:30-7 p.m.
33. *Comparisons between PVT2R+ neuronal responses and NAc dopamine signaling during outcome-based predictions*
Briana Machen, Carine Lampert PhD, Sierra Miller PhD, Lauren Assaf, Julia Tucker, Sofia Beas
Session: Friday, 9:30-11 a.m.
34. *Role of prelimbic interneurons in sucrose operant reward learning*
Hunter Franks, Julia Gonzalez, Rodrigo Campos-Cardoso, Kirstie Cummings
Session: Thursday, 5:30-7 p.m.
35. *Targeting Glioblastoma through ROS-Sensitive Synthetic Biology*
Nghii Dang, Aurelio Galli, Angela Carter
Session: Friday, Friday, 9:30-11 a.m..



COMPREHENSIVE NEUROSCIENCE CENTER

The University of Alabama at Birmingham

Poster Presentations

36. *Amygdala NPY-positive interneurons are activated and release NPY during stressful events*
Patric J. Perez, Yulong Li, J. Andrew Hardaway, Lynn E. Dobrunz
Session: Thursday, 5:30-7 p.m.
37. *Evaluating the Therapeutic Potential of Blocking Tau-SH3 interactions in Alzheimer's Disease and Tauopathy Models*
Aanishaa Jhaldiyal, Natalie Davis, James Black
Session: Friday, Friday, 9:30-11 a.m.
38. *Role of CNQ2/3 channels in medium spiny neuron excitability*
Emily Jorgensen, Jeremy Day
Session: Friday, Friday, 9:30-11 a.m..
39. *Co-Activation Patterns are Linked to Cognition Across Schizophrenia and First-Degree Relatives from the Psychosis Human Connectome Project*
George C. Ling, Paul D. Stewart, Scott R. Sponheim³, Kristina M. Visscher, Junghee Lee
Session: Friday, Friday, 9:30-11 a.m.
40. *Sex-specific multisystem alterations in metabolome in aged TgF344-AD rats*
Sreehari Girish Kumar, Anisha Banerjee, Sarah Ding, Maham Babar, Priya Chenupatti, Juan Pablo Carcamo del Zotto, Anna Caton Menocal, Abbi Hernandez
Session: Friday, 9:30-11 a.m.
41. *Radiolitic Neuromodulation of Cell Activity*
Daniele Zanella, Samuel J. Mabry, Caleb Rowe, Anna Marie Buchanan, Camila Gonzalez-Arancibia, Hunter S. Goffinet, Iqbal Hossain, Shaida Andrabi, Angela Carter, Mark Bolding & Aurelio Galli
Session: Friday, 9:30-11 a.m.
42. *Multi-omic profiling reveals cell type-specific chromatin accessibility in the rat nucleus accumbens*
Guy Twa, Cathy Newman, Jeremy Day
Session: Friday, 9:30-11 a.m.
43. *Investigating Changes in Connectivity Patterns in Patients with Macular Degeneration using Laminar fMRI*
Madeline G. Ragland, Pinar Demirayak, Kristina Visscher
Session: Friday, 9:30-11 a.m.
44. *Developing EEG Neurofeedback Training to Improve Cognitive Performance*
Ashton Weber, Kristina Visscher, and Keith McGregor
Session: Friday, 9:30-11 a.m.



COMPREHENSIVE NEUROSCIENCE CENTER

The University of Alabama at Birmingham

Poster Presentations

45. *Microbes and Substance Use Disorders: Bacterial biofilms as key reinforcers of amphetamine abuse*
Gonzalez-Arancibia C, Ellsworth E, Mabry SJ, Cao X, Wu H, Galli A, Carter AM
Session: Friday, 9:30-11 a.m.
46. *Estrous Cycle Regulation of the Transcriptional Landscape of Basolateral Amygdala Neurons*
Peter J Teravskis, Jeremy Simon, Elizabeth K Lucas
Session: Friday, 9:30-11 a.m.
47. *Synaptic adhesion and signaling in the healthy and diseased retina*
Choice Uwumwose, Gillian Huskin, Trong Thong Ung, Kostantin Gavrikov, Yuchen Wang
Session: Friday, 9:30-11 a.m.
48. *Blunting Spinal Cord Injury Induced Muscle Atrophy with Muscle-Specific PGC-1 α Overexpression*
Serenah E. Smith, Drue Benefield, Glenn C. Rowe
Session: Friday, 9:30-11 a.m.
49. *Alternative Splicing Contributes to Neuronal Maturation in *C. elegans**
Dalton Chase Patterson, HaoSheng Sun
Session: Friday, 9:30-11 a.m.
50. *LRRK2 inhibition protects against mitochondrial damage from environmental toxicants associated with Parkinson's Disease*
N.M. Ilieva, E.K. Hoffman, M.A. Ghalib, T. J. Greenamyre, B. R. De Miranda
Session: Friday, 9:30-11 a.m.
51. *The role of dysregulated circular RNAs in Amyotrophic Lateral Sclerosis*
Katherine A. Smith and Peter H. King
Session: Friday, 9:30-11 a.m.
52. *Examining the role of neuron-neuron communication in the maturation of post-embryonic *Caenorhabditis elegans* nervous system*
Gabrielle Prince, Roger Pocock, HaoSheng Sun
Session: Friday, 9:30-11 a.m.
53. *Impact of HIV and Insomnia on Pain Sensitivity: An Experimental Quantitative Sensory Testing Study*
Caroline K Webb, Shannon R. Gilstrap, Joanna M Hobson, Halla N. Stallworth, Dyan M. White, Shameka L. Cody, S. Justin Thomas, Robert E. Sorge, Burel R. Goodin.
Session: Friday, 9:30-11 a.m.
54. *Sex and Hormonal Influence on Whole-Brain Inputs to the Lateral Septum Following Threat Conditioning*
May Rudd, Molly McNulty, Nina Baumgartner, & Elizabeth K. Lucas
Session: Friday, 9:30-11 a.m.



COMPREHENSIVE NEUROSCIENCE CENTER

The University of Alabama at Birmingham

Poster Presentations

55. *Understanding the Influences of Arousal States on the Activity of Distinct TRN Neuronal Subtypes*
Hero Liu, Levi F. Dyson, Christian Puzzo, William O. Gilbert, Surya R. Nair, Scott J. Cruikshank
Session: Friday, 9:30-11 a.m.
56. *Infralimbic cortex interneurons become hyperexcitable after heroin self-administration and protect against cued relapse during acute withdrawal*
Ruiz-Leyva, L., Giannotti, G., Vareded, R.D., Glodoski, K., and Peters, J.
Session: Friday, 9:30-11 a.m.
57. *Investigating the Cognitive Effects of Extracellular Vesicles from 5xFAD Mice in a Wild-Type Mouse Model*
Frida Anguiano, Ken Matoba, Jose Francis-Oliveira, , Jana Badrani, Takashi Imai, Joseph Lopez-Ulacia, Minae Niwa, and Shin-ichi Kano
Session: Friday, 9:30-11 a.m.
58. *Investigating the Effects of Maternal Immune Activation on Offspring Behavior and Metabolism*
Kate Miller, Jana Badrani, Rebekah Beyea, Ken Matoba, Shin-Ichi Kano
Session: Friday, 9:30-11 a.m.
59. *The role of T cell activation in solvent induced Parkinson's disease*
Gwendolyn Cohen, Ashley Adamson, Mohammed A. Ghalib, Neda Ilieva, Jhodi Webster, Briana R. De Miranda
Session: Friday, 9:30-11 a.m.
60. *Toward comparing scotomas: Using microperimetry paired with cortical magnification factor to quantify retinal functional health in patients with central vision loss*
Elam J Cutts, Marcello Maniglia, Matthew K. Defenderfer, Pinar Demirayak, Dawn K. DeCarlo, Kristina M Visscher
Session: Friday, 9:30-11 a.m.
61. *The circadian activity of hippocampal fast-spiking parvalbumin neurons may be related to Alzheimer's Disease- linked epileptiform activity*
Ruan Carlos Macedo de Moraes, Paola Fernandes, Jacob M. Reeves, Mary B. Cooper, Micah Simmons, Jodi R. Paul, Rita Cowell, Erik D. Roberson, Karen L. Gamble
Session: Thursday, 5:30-7 p.m.
62. *Synaptic Basis of Neuronal Dysfunction and Degeneration in The Retina*
Choice Uwumwonse, Gillian Huskin, Konstantin Gavrikov, Yuchen Wang
Session: Friday, 9:30-11 a.m.
63. *Circadian rhythms in cortical network excitability in mice with molecular clock impairment in Parvalbumin-expressing interneurons*
Niya R. Holifield, Jodi R. Paul, M. Natalie Davis, Lacy K. Goode, Jacob Reeves, Erik D. Roberson, and Karen L. Gamble
Session: Friday, 9:30-11 a.m.