

IBANGS 2021: GENES, BRAIN AND BEHAVIOR 2021

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TRAINEE SYMPOSIUM ITINERARY

First Annual IBANGS Trainee Symposium on Monday, May 10th at 11am EDT

11:00am-11:15am Welcome

11:15am-12:15pm Science Grant Panel:

Dr. Anna-Lisa Lucido, *Director, Research Program
Development, Jackson Laboratory*

Dr. Lisa Tarantino, *Associate Professor, University of
Carolina at Chapel Hill*

Dr. Amy Lasek, *Associate Professor, University of Chicago
at Illinois*

Dr. Marina Guizetti, *Professor, Oregon Health and Science
University*

12:15pm-13:15pm Trainee Talks:

12:15pm: Dr. Ana Filošević Vujnović, *Postdoctoral Fellow,
University of Rijeka*

12:30pm: Julie Sadino, *Graduate Student, University of
Colorado, Boulder*

12:45pm: Miriam Menken, *Graduate Student, University of
Maryland, Baltimore*

13:00pm-13:15pm Data Blitz

Saeedeh Hosseinian, *Graduate Student, Queen Mary
University of London*

Hayley Thorpe, *Graduate Student, University of
Guelph*

13:15-13:30pm Break in Walkabout

13:30pm-14:30pm Trainee Talks:

13:30pm: Lucy Hall, Graduate Student, University of Colorado, Boulder

13:45pm: Antonios Diab, Postdoctoral Fellow, Dalhousie University

14:00pm-14:15pm Data Blitz

Elam Cutts, Post baccalaureate Student, University of Alabama, Birmingham

Elizabeth Brown, Postdoctoral Fellow, Florida Atlantic University

Jacob Beierle, Graduate Student, Boston University

14:15-14:30pm Break in Walkabout

14:30pm-15:30pm Science Career Panel:

Dr. George Inglis, *Communications Biology* Editor

Dr. Sadie Nennig, Medical Science Liaison, Bristol Meyers Squibb

Dr. Megan Mulligan, Assistant Professor, University of Tennessee Health Science Center

Dr. Paul Meyer, Associate Professor, University of Buffalo

15:30-15:45pm Break in Walkabout

15:45pm-16:35pm Trainee Talks:

15:45pm: Winona Booher, Graduate Student, University of Colorado, Boulder

16:00pm-16:10pm Data Blitz:

Dr. Christopher King, Postdoctoral Fellow, University of Buffalo

Neha Rajput, Graduate Student, Wayne State University

16:10pm: Miko Dai, Post baccalaureate Student, The Jackson Laboratory

16:25pm-16:35pm Data Blitz:

Rebecca Schnabel, Post baccalaureate Student,
Mayo Clinic

Christiann Gaines, Graduate Student, University of
North Carolina, Chapel Hill

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MACHINE LEARNING ITINERARY

Machine Learning for Social Behavior Analysis

Genes, Brain, and Behavior Meeting 2021 (IBANGS)

Online

May 11, 2021

11am - 4pm EASTERN TIME

Instructors: Vivek Kumar, Sam Golden

Helpers: Glen Beane, Vivek Kohar, Yehya Barakat, Tony Gallo, Jia Choong, Simon Nilsson, Nastacia Goodwin

Schedule

11:00 Welcome and introductions

11:05 Seminar: SimBA – Supervised machine learning for the unsupervised behavioral neuroscientist. (Sam Golden)

11:50 Seminar: Machine Learning Fundamentals for Behavior Analysis (Vivek Kumar)

12:35 Lunch break

13:35 Workshop 1 (Simba)

14:35 Workshop 2 (JAX-ABA)

15:35 Debrief (Sam Golden, Vivek Kumar)

15:55 Post-workshop survey

16:00 END

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PROGRAM

Days: [Monday, May 10th](#) [Tuesday, May 11th](#)
[Wednesday, May 12th](#) [Thursday, May 13th](#)
[Friday, May 14th](#) [Saturday, May 15th](#)

Monday, May 10th

View this program: [with abstracts](#) [session overview](#) [talk overview](#)

11:00-16:45 Session 1: Workshop Trainee Day

Workshop Trainee Day (EDT) Conference Floor, Presentation Room D

Tuesday, May 11th

View this program: [with abstracts](#) [session overview](#) [talk overview](#)

11:00-16:00 Session 2: Workshop Machine Learning

Workshop Machine Learning (EDT) Conference Floor, Presentation Room A

19:00-21:00 Welcome Reception and Tech Test

Social and Tech Test (EDT) IBANGS Exec Offices, Patio

Wednesday, May 12th

View this program: [with abstracts](#) [session overview](#) [talk overview](#)

08:00-10:00 Welcome Reception and Tech Test

Social and Tech Test (EDT) IBANGS Exec Offices, Patio

10:00-11:45 Session 3: Symposium: Sleep regulation and function during early developmental periods, Chair Matthew Kayser

(EDT) Conference Floor, Auditorium

LOCATION: [Symp 1 Zoom](#)

10:00 [Matthew Kayser](#)

Using fruit flies to study sleep regulation and function during development ([abstract](#))

- 10:23 [Richa Saxena](#)
Genetic basis of sleep regulation in humans
[\(abstract\)](#)
- 10:46 [Rozi Andretic Waldowski](#)
Disturbed redox regulation in mutants for circadian genes in *Drosophila melanogaster*
[\(abstract\)](#)
- 11:09 [Justin Palermo](#)
A screen of human orthologs for loci involved in sleep and circadian behavior identifies PIG-Q as a conserved regulator of sleep [\(abstract\)](#)
- 11:21 [Giovanni Sala](#)
Improving reliability and phenotyping in mouse behaviour with machine learning.
[\(abstract\)](#)
- 11:33 [Elam Cutts](#)
P8 Assessment of circadian rhythms of striatal dopamine signaling via optical imaging. [\(abstract\)](#)

11:45-13:00 Break

13:00-14:15 Session 4: Travel Awardees, Chair Mark Rutledge-Gorman

(EDT) Conference Floor, Auditorium

LOCATION: [Travel Awardees and Selected Talks I Zoom](#)

- 13:00 [Elizabeth Yen](#)
Sex-specific Reward Modulation and Inflammatory Impact of Prenatal Opioid Exposure on the Developing Brain [\(abstract\)](#)
- 13:03 [Dana Hodorovich](#)
Determining the role of CHD7 in brain development and behavioral phenotypes using a novel charge syndrome zebrafish model [\(abstract\)](#)
- 13:26 [Jacob Beierle](#)
BALB/c substrain differences in whole brain concentrations of the highly potent oxycodone metabolite oxymorphone map to chromosome 15 in a reduced complexity cross. [\(abstract\)](#)
- 13:49 [Luana Carvalho](#)
Sex Differences in Aversion Resistant Ethanol Intake: Divergent Roles Of Perineural Nets
[\(abstract\)](#)

14:30-16:00 Session 5: Selected Talks I, Chair Karla Kaun

(EDT) Conference Floor, Auditorium

LOCATION: [Travel Awardees and Selected Talks I Zoom](#)

- 14:30 [Amanda Barkley-Levenson](#)
Characterizing drinking behavior in genetic mouse models of novel human GWAS hits for problematic alcohol use [\(abstract\)](#)

- 14:45 [Brian Wang](#)
Thirst neurons that promote water seeking and limit feeding encode positive valence when searching for water ([abstract](#))
- 15:00 [John Mootz](#)
Reduced Intake When Drugs Make You Cold ([abstract](#))
- 15:15 [Saeedeh Hosseinian](#)
A forward genetic screen of ENU-mutagenised zebrafish identifies lines showing deficits in impulse control ([abstract](#))
- 15:30 [Adele Leggieri](#)
Ankk1 regulates dopamine signaling in zebrafish ([abstract](#))
- 15:45 [Lars Westberg](#)
Characterization of Behavior and Neurochemistry Following Social Stimulation in Oxytocin-Receptor-Mutants ([abstract](#))

19:00-21:00 Session 6: Poster Session I

Poster Session I (EDT) Poster Hall Floor

- 19:00 [Cheryl Reed](#)
P6 A breeding strategy to identify modifiers of high genetic risk for methamphetamine intake and its impact on other phenotypes. ([abstract](#))
- 19:00 [Nitisha Ponnappan](#)
P16 Inheritance of behavioral and neuroanatomical phenotypical variance ([abstract](#))
- 19:00 [Kristin Scaplen](#)
P28 Transsynaptic mapping of Drosophila mushroom 1 body output neurons ([abstract](#))
- 19:00 [Emily Xiao](#)
P9 Wnt Signaling Connects DCX, COMT and FMR1 in Hippocampal Neurogenesis, Social Behavior and Intellectual Disability ([abstract](#))
- 19:00 [Shu Ye](#)
P22 Huang-Pu-Tong-Qiao Formula reduces neuron apoptosis in diabetic cognitive dysfunction mouse model via Bax/Bcl-2 and caspase-3 pathway based on molecular docking ([abstract](#))
- 19:00 [Samantha Rios](#)
P23 Evaluation of Taar1 as a candidate gene influencing aversion circuitry in mice selectively bred for voluntary methamphetamine consumption ([abstract](#))
- 19:00 [Ruyan Wu](#)
P24 Novelty exposure enhanced the extinction of naltrexone-precipitated conditioned place aversion ([abstract](#))
- 19:00 [Kyungin Kim](#)

P21 SrGAP3 as a regulator of voluntary cocaine abuse in mice ([abstract](#))

19:00 [Benjamin Sachs](#)

P17 Sub-chronic stress induces similar behavioral effects in male and female mice despite sex-specific molecular adaptations in the nucleus accumbens ([abstract](#))

19:00 [Rebecca Schnabel](#)

P25 Targeted Integration of Zebrafish pbx1a and diaph1 for Understanding Stress and Disease ([abstract](#))

19:00 [Grace Boyum](#)

P10 ARHGAP35, a clinical gene of unknown significance; examining its role in zebrafish stress response signaling ([abstract](#))

19:00 [Nikita Tjernström](#)

P26 Individual differences in gambling strategies and associations to sexual behavior, voluntary alcohol intake and response to naltrexone in male Lister Hooded rat ([abstract](#))

19:00 [Christopher King](#)

P3 Genome-Wide Association Study in 3,228 Outbred Heterogeneous Stock Rats Identifies Multiple Loci for a Pavlovian Conditioned Approach Task ([abstract](#))

19:00 [Pamela Romero Villela](#)

P43 A SNP-by-gene interaction analysis of rs16969968 and genome-wide loci on cigarettes per day in the UK Biobank ([abstract](#))

19:00 [Leinani Hession](#)

P29 A machine vision-based frailty index for mice ([abstract](#))

19:00 [David Ashbrook](#)

P33 Massive Diallel Crosses (DAX) as a tool for gene-by-environment interactions, epistasis, and experimental precision medicine ([abstract](#))

19:00 [Dana Hodorovich](#)

P36 DETERMINING THE ROLE OF CHD7 IN BRAIN DEVELOPMENT AND BEHAVIORAL PHENOTYPES USING A NOVEL CHARGE SYNDROME ZEBRAFISH MODEL ([abstract](#))

19:00 [Miriam Menken](#)

P40 Sex-Specific Behavioral and Cognitive Correlates of Peer Victimization (“Bullying”) ([abstract](#))

19:00 [Miko Dai](#)

P34 Hypothalamic RNAseq highlights lysosomal gene Laptm5 as a potential driver of cognitive and metabolic dysfunction in Alzheimer’s disease ([abstract](#))

19:00 [Winona Booher](#)

P44 Hippocampal RNA Sequencing in Mice Selectively Bred for High and Low Activity
([abstract](#))

19:00 [John Mootz](#)

P42 Reduced Intake When Drugs Make You Cold ([abstract](#))

19:00 [Julie Sadino](#)

P41 Prolonged partner separation erodes transcriptional signatures of pair bonding in prairie voles ([abstract](#))

19:00 [Graeme Preston](#)

P31 The antidepressant L-acetylcarnitine (LAC) mitigates posttraumatic stress disorder (PTSD)-like behavior and confers metabolic resilience to trauma exposure in male mice. ([abstract](#))

19:00 [Antonios Diab](#)

P35 NCK1 modulates neuronal actin dynamics and promotes dendritic spine, synapse, and memory formation ([abstract](#))

21:00-22:00 Session 7: Presidential Speaker 2021:
Hitoshi Okamoto, Chair Karl Clark

(EDT) Conference Floor, Auditorium

LOCATION: [Presidential Speaker Okamoto](#)

21:00 [Hitoshi Okamoto](#)

Habenula as the experience-dependent controlling switchboard of behavior and attention in social conflict and learning
([abstract](#))

Thursday, May 13th

View this program: [with abstracts](#) [session overview](#) [talk overview](#)

09:15-10:45 Session 8: Symposium:
Neurodegenerative and Neuropsychiatric disorders, Chair Peter Ash

(EDT) Conference Floor, Auditorium

LOCATION: [Symp 2 and Early Career Scientist Award Zoom](#)

09:15 [Catherine Kaczorowski](#)

Cross-species analyses identify Dlgap2 as a regulator of age-related cognitive decline and Alzheimer's dementia ([abstract](#))

09:35 [Joshua Shulman](#)

Functional Genomics of the Lysosome in Parkinson's disease ([abstract](#))

09:55 [Peter Ash](#)

Macromolecular connectivity landscape of mammalian brain identifies novel ALS-relevant complex ([abstract](#))

- 10:08 [Zhiqiang Sha](#)
Patterns of brain asymmetry associated with polygenic risks for autism and schizophrenia implicate language and executive functions but not brain masculinization ([abstract](#))
- 10:21 [Miko Dai](#)
Hypothalamic RNAseq highlights lysosomal gene Laptm5 as a potential driver of cognitive and metabolic dysfunction in Alzheimer's disease ([abstract](#))
- 10:34 [Elizabeth Brown](#)
Modality specific taste deficits associated with aging in the fruit fly ([abstract](#))

10:45-11:45 Session 9: Early Career Achievement Award: Ryan Logan, Chair Camron Bryant

(EDT) Conference Floor, Auditorium

LOCATION: [Symp 2 and Early Career Scientist Award Zoom](#)

- 10:45 [Ryan Logan](#)
Novel sleep and circadian mechanisms linking rodents and humans in opioid addiction ([abstract](#))

11:45-13:00 Break

13:00-14:00 Session 10: Keynote Speaker: Hopi Hoekstra, Chair Camron Bryant

(EDT) Conference Floor, Auditorium

LOCATION: [Hoekstra Keynote and Symp 3 Zoom](#)

14:00-15:45 Session 11: Symposium: Alternate transcript usage and RNA splicing in alcohol and substance use disorders, Chair Amy Lasek

(EDT) Conference Floor, Auditorium

LOCATION: [Hoekstra Keynote and Symp 3 Zoom](#)

- 14:00 [Kimberly Raab-Graham](#)
Ethanol and Rapid Antidepressants share Differentially Expressed Exons as a Common Mechanism to mediate Antidepressant-like Behaviors ([abstract](#))
- 14:20 [Hannah Cates](#)
Regulation of cocaine-induced behavior, transcription, and alternative splicing by E2F3 proteins in male mice ([abstract](#))
- 14:40 [Amy Lasek](#)
Chronic alcohol drinking and withdrawal increases the expression of the RNA splicing machinery in the rat hippocampus ([abstract](#))
- 15:00 [Tariq Brown](#)
Alternative Splicing in Memory Circuits ([abstract](#))
- 15:20 [David N. Linsenbardt](#)

Impact of Repeated Binge Alcohol Consumption on Corticostriatal Splicing and Polyadenylation ([abstract](#))

16:00-17:00 Meet Up

(EDT) Conference Floor, Garden

Scavenger Hunt

Friday, May 14th

View this program: [with abstracts](#) [session overview](#) [talk overview](#)

04:00-06:00 Session 12: Poster Session Euro/Asia

Euro/Asia

09:00-11:00 Session 13: Poster Session II

Poster Session II (EDT) Poster Hall Floor

09:00 [Alisha Chunduri](#)

P20 Old data and friends improve with age: Advancements with the updated tools of GeneNetwork ([abstract](#))

09:00 [Amy Dunn](#)

P5 High-fat diet generally exacerbates, but is sometimes protective against, cognitive dysfunction in female AD mice depending on genetic background ([abstract](#))

09:00 [Samantha Zaninelli](#)

P15 Mapping the genetic basis of trait evolution in the Mexican cavefish (Poster) ([abstract](#))

09:00 [Inga Poletaeva](#) and [Olga Perepelkina](#)

P12 Selection of mice for high and low scores of the object-permanence “puzzle-box” test ([abstract](#))

PRESENTER: [Inga Poletaeva](#)

09:00 [Pierre Cronell](#)

P2 Social preference and locomotion in a zebrafish model of Rett syndrome ([abstract](#))

09:00 [Hayley Thorpe](#)

P11 Genetic Disruption of Circadian Nuclear Receptor REV-ERB α Reduces Alcohol Preference in Mice ([abstract](#))

09:00 [Kayla Nygaard](#)

P14 Genetic contributions to social, anxiety, and fear behaviors in a mouse model of Williams Syndrome ([abstract](#))

09:00 [Izzabella Green](#)

P13 Proposing a new vibration-based paradigm for studying the role of stress-

related genes in zebrafish (*Danio rerio*)

([abstract](#))

09:00 [Neha Rajput](#)

P27 Profiling individual behavioral differences in zebrafish using the novel tank test.

([abstract](#))

09:00 [Celeste Ferraguto](#)

P18 Identifying novel molecules targeting BKCa channels as treatment for auditory processing impairments ([abstract](#))

09:00 [Myra Bower](#)

P19 Gene Report Cards–Integrative Tool to Summarize Gene Information for Nicotine Behaviors ([abstract](#))

09:00 [Montana Lara](#)

P4 Network-based functional prediction identifies candidate modifier genes from a mapping population of multiple mouse models of absence epilepsy ([abstract](#))

09:00 [Christiann Gaines](#)

P7 The impact of genetic and non-genetic factors on cocaine locomotor sensitivity in behaviorally divergent inbred mouse substrains: assessing the role of the gut microbiome ([abstract](#))

09:00 [Aleksandra Mech](#)

P30 Identification of lines showing altered sensitivity to rewarding effects of nicotine using a self-administration assay in zebrafish ([abstract](#))

09:00 [Giovanni Sala](#)

P38 Improving reliability and phenotyping in mouse behaviour with machine learning. ([abstract](#))

09:00 [Lars Westberg](#)

P39 Characterization of Behavior and Neurochemistry Following Social Stimulation in Oxytocin-Receptor-Mutants ([abstract](#))

09:00 [Rozi Andretic Waldowski](#)

P32 Disturbed redox regulation in mutants for circadian genes in *Drosophila melanogaster* ([abstract](#))

09:00 [Saeedeh Hosseinian](#)

P37 A forward genetic screen of ENU-mutagenised zebrafish identifies lines showing deficits in impulse control ([abstract](#))

11:00-12:00 Session 14: Presidential Speaker 2020:
Jonathan Mill, Chair Cathy Fernandes

(EDT) Conference Floor, Auditorium

LOCATION: [Presidential Speaker Mill](#)

11:00 [Jonathan Mill](#)

Epigenomic trajectories to neuropsychiatric disease ([abstract](#))

12:00-13:00 Break

13:00-14:45 Session 15: Symposium: Emergent systems for genetic studies of behavior, Chairs Alex Keene & Yehuda Ben-Shahar

(EDT) Conference Floor, Auditorium

LOCATION: [Symp 4 and Selected Talks II](#)

- 13:00 [Yehuda Ben-Shahar](#)
Advances in broadening genetic and neuronal approaches to animal behavior research
[\(abstract\)](#)
- 13:20 [Laura Duvall](#)
Neuropeptide regulation of *Aedes aegypti* mosquito attraction to humans
[\(abstract\)](#)
- 13:40 [Alex Keene](#)
The evolution of sleep loss in Mexican cavefish
[\(abstract\)](#)
- 14:00 [Christine Merlin](#)
CRYPTOCHROME 1 mediates light-dependent inclination magnetosensing in monarch butterflies
[\(abstract\)](#)
- 14:20 [Samantha Zaninelli](#)
Mapping the genetic basis of trait evolution in the Mexican cavefish
[\(abstract\)](#)
- 14:25 [Julie Sadino](#)
Prolonged partner separation erodes transcriptional signatures of pair bonding in prairie voles
[\(abstract\)](#)

14:45-15:00 Break

15:00-16:15 Session 16: Selected Talks II, Chair Vivek Kumar

(EDT) Conference Floor, Auditorium

LOCATION: [Symp 4 and Selected Talks II](#)

- 15:00 [David Ashbrook](#)
Massive Diallel Crosses (DAX) as a tool for gene-by-environment interactions, epistasis, and experimental precision medicine
[\(abstract\)](#)
- 15:15 [Miriam Menken](#)
Sex-Specific Behavioral and Cognitive Correlates of Peer Victimization (“Bullying”)
[\(abstract\)](#)
- 15:30 [Vivek Kohar](#)
Integrated, machine learning based advanced phenotyping platform for the laboratory mouse
[\(abstract\)](#)
- 15:45 [Leinani Hession](#)
A machine vision-based frailty index for mice
[\(abstract\)](#)

16:00 [Winona Booher](#)

**Hippocampal RNA Sequencing in Mice
Selectively Bred for High and Low Activity**
([abstract](#))

16:15-17:15 Meet Up

(EDT) Conference Floor, Pub

Scattergories

Saturday, May 15th

View this program: [with abstracts](#) [session overview](#) [talk overview](#)

04:00-06:00 Session 17: Selected Talks IIIa Early Bird Special, Chair Gang Chen

(EDT) Conference Floor, Auditorium

LOCATION: [Selected Talks - Early Bird](#)

04:00 [Gang Chen](#)

Co-susceptibility to depression-like and fatigue-like behaviors following chronic stress: a behavioral, pharmacological and transcriptomic study in two mouse strains
([abstract](#))

04:15 [Hailou Zhang](#)

Synergism of two natural compounds elicited rapid antidepressant activity via upregulation of hippocampal PACAP ([abstract](#))

04:30 [Eva Sheardown](#)

Characterising the ontogeny of numerosity and the role of CYFIP in zebrafish reveals use of multiple, numerical and non- numerical mechanisms ([abstract](#))

04:45 [Aleksandra Mech](#)

Identification of lines showing altered sensitivity to rewarding effects of nicotine using a self-administration assay in zebrafish
([abstract](#))

05:00 [Ana Filosevic Vujnovic](#)

Dissecting cocaine-induced group behaviors in *Drosophila melanogaster* adult males by applying social interaction network analysis and deep learning methods ([abstract](#))

09:00-10:45 Session 18: Symposium: Neonatal opioid withdrawal syndrome in mice and humans, Chair Camron Bryant

(EDT) Conference Floor, Auditorium

LOCATION: [Symp 5 and Business Meeting](#)

09:00 [Elisha Wachman](#)

Neonatal Opioid Withdrawal Syndrome: The Changing Landscape of Care and Role of Genetics in Predicting Outcomes ([abstract](#))

09:20 [Elizabeth Yen](#)

Sex-specific Reward Modulation and Inflammatory Impact of Prenatal Opioid Exposure on the Developing Brain ([abstract](#))

09:40 [Julie Blendy](#)

Molecular and Behavioral Consequences of Neonatal Opioid Exposure in Mice ([abstract](#))

10:00 [Kristyn Borrelli](#)

Neonatal morphine (P1-14) in CFW mice induces behavioral signs of withdrawal, sex-dependent transcriptomic profiles in brainstem (P15), and altered affective and psychostimulant-induced locomotor phenotypes in adolescence ([abstract](#))

10:15 [Lucy Hall](#)

Differential gene expression responses to oxycodone self-administration in the amygdala and prefrontal cortex of inbred rat strains ([abstract](#))

10:30 [Arojit Mitra](#)

The causal effects of Cyfip2 S968F mutation on cocaine-induced behavioral and neurophysiological outcomes ([abstract](#))

10:45-13:00 Session 19: IBANGS Business Meeting

Business Meeting (EDT) Conference Floor, Auditorium

IBANGS Fellow Awards Presentation: Fellow of the International Behavioral and Neural Genetics Society appointment is given to individuals that have demonstrated scientific excellence, and support of the society through service on committees and continuous membership for a number of years. Award recipients John Crabbe, Jacqueline Crawley, Wim Crusio, Abraham Palmer, Catharine Rankin, and Robert Williams will be attending the ceremony.

Committee Reports

Society Business

LOCATION: [Symp 5 and Business Meeting](#)

13:00-14:00 Break

14:00-15:00 Session 20: Distinguished Investigator Award: Abraham Palmer, Chair Camron Bryant

(EDT) Conference Floor, Auditorium

14:00 [Abraham Palmer](#)

Abstract for Abraham Palmer's IBANGS Distinguished Investigator Award talk ([abstract](#))

15:00-15:45 Session 21: Selected Talks IIIb, Antonia Savarese

(EDT) Conference Floor, Auditorium

LOCATION: [Distinguished Scientist and Selected Talks 3](#)

15:00 [Han Lee](#)

Characterizing locomotion that is independent of the HPA axis and canonical glucocorticoid receptor ([abstract](#))

15:15 [Graeme Preston](#)

The antidepressant L-acetylcarnitine (LAC) mitigates posttraumatic stress disorder (PTSD)-like behavior and confers metabolic resilience to trauma exposure in male mice. ([abstract](#))

15:30 [Antonios Diab](#)

NCK1 modulates neuronal actin dynamics and promotes dendritic spine, synapse, and memory formation ([abstract](#))

15:45-16:00 Session 22: Closing Remarks

(EDT) Conference Floor, Auditorium

LOCATION: [Distinguished Scientist and Selected Talks 3](#)

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