

IBANGS 2022: GENES, BRAIN AND BEHAVIOR 2022

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Genes, Brain and Behavior 2022



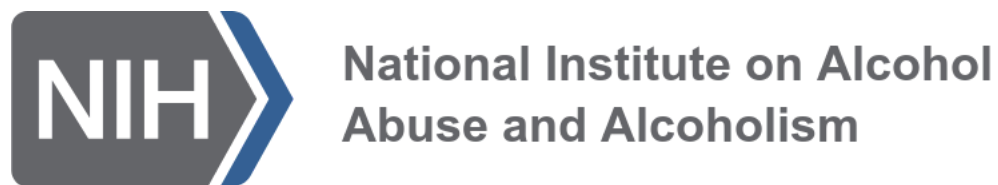
23rd Annual Genes, Brains & Behavior Meeting
University of Tennessee Health Science Center
May 23-27th, 2022

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IBANGS 2022: GENES, BRAIN AND BEHAVIOR 2022

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IBANGS 2022: GENES, BRAIN AND BEHAVIOR 2022

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Crosscutting applications in genes, brains, and
behavior: Single cell and spatial transcriptomics

Workshop schedule Monday May 23rd, Times in CDT

Session A: Single Cell Genomics

9:00 to 9:45am Introduction to Single cell genomics
tech talk

9:45 to 10:00 break

10:00 to 11:00am Applications, limitations, and future
directions of single cell technology for eQTL mapping

11:00 to 11:15am break

Session B: Spatial Transcriptomics

11:15 to 12:00 pm Spatial transcriptomics tech talk
about Visium tools and platform

12:00 to 12:15 pm Boxed lunch, working lunch

12:15 to 1:15 pm Applications, future directions, and
limitations

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Networking for success

Workshop schedule Monday May 23rd, Times in CDT

2-2:10pm: check in/ice breaker

2:10-2:40pm: Group 1 (6 highlighted trainees) gives
2-3min lightning talks

2:40pm-2:50pm: Group 1 breaks up into different
tables for small group discussions. Each highlighted
trainee sits at a table (or pairs of highlighted trainees
and the rest of the group walks around and chats with
them informally).

2:50pm-3:00pm: break

3:00-3:20pm: Group 2 (6 highlighted trainees) gives
2-3min lightning talks

3:20pm-3:30pm: Group 2 breaks up into different
tables for small group discussions. Each highlighted
trainee sits at a table (or pairs of highlighted trainees
and the rest of the group walks around and chats with
them informally).

3:30pm-3:40pm: break

3:40-4:00pm: Group 3 (6 highlighted trainees) gives
2-3min lightning talks.

4:00-4:10pm: Group 3 breaks up into different tables
for small group discussions. Each highlighted trainee
sits at a table (or pairs of highlighted trainees and the
rest of the group walks around and chats with them
informally).

4:15-4:30pm: set up for mentor/mentee speed
mentoring event.

4:30-6pm: speed mentoring event.

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PROGRAM

Days: [Monday, May 23rd](#) [Tuesday, May 24th](#)
[Wednesday, May 25th](#) [Thursday, May 26th](#)
[Friday, May 27th](#)

Monday, May 23rd

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

08:00-09:00 Session 1

Refreshments and Onsite Registration

09:00-09:45 Session 2

Introduction to Single Cell Genomics (Dr. Egon Ranghini, 10X Genomics)

CHAIR: [Megan Mulligan](#)

09:00 [Egon Ranghini](#)

Trailblazing the future of spatial biology
([abstract](#))

09:45-10:00 Session 3

Q&A

CHAIR: [Megan Mulligan](#)

10:00-11:00 Session 4

Applications, limitations, and future directions of single cell technology for eQTL mapping (Virtual Panelist: Dr. Xia Yang, University of California Los Angeles)

CHAIR: [Megan Mulligan](#)

10:00 [Xia Yang](#)

Integrative systems analysis, applications, and challenges of single cell multiomics
([abstract](#))

11:00-11:15 Session 5

Q&A

CHAIR: [Megan Mulligan](#)

11:15-11:30 Lunch Break

11:30-12:30 Session 6

Introduction to Spatial Genomics (Dr. Egon Ranghini, 10X Genomics)

CHAIR: [Megan Mulligan](#)

11:30 [Egon Ranghini](#)

**Reveal the full complexity of cellular diversity,
cell by cell ([abstract](#))**

12:30-12:45 Session 7

Q&A

CHAIR: [Megan Mulligan](#)

12:45-13:45 Session 8

Applications, limitations, and future directions of spatial cell technology for eQTL mapping (Virtual Panelists: Drs. Kristen Maynard and Leo Collado, Lieber Institute for Brain Development)

CHAIR: [Megan Mulligan](#)

12:45 [Kristen Maynard](#)

**Spatial gene expression in the human brain:
applications, limitations, and future directions
([abstract](#))**

13:45-14:00 Session 9

Q&A

CHAIR: [Megan Mulligan](#)

14:00-15:45 Session 10

Trainee Workshop: Networking for Success in Science (Chair: Kristin Scaplin)

CHAIR: [Kristin Scaplen](#)

15:45-16:00 Break

16:00-18:00 Session 11

Trainee Workshop: Trainee Workshop: Networking for Success in Science (Chair: Kristin Scaplin)

CHAIR: [Kristin Scaplen](#)

18:00-20:00

Opening Reception

CHAIR: [Kristin Scaplen](#)

Tuesday, May 24th

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

08:00-09:00 Session 12

Refreshments and Onsite Registration

CHAIR: [Kristin Scaplen](#)

08:45-09:00 Session 13

Welcome

CHAIR: [Kristin Scaplen](#)

09:00-11:00 Session 14

Symposium I. *Mapping the brain: Neuroimaging and connectome approaches to study genetic variation in brain function, structure, and behavior*

Speakers: Al Johnson, Neda Jahanshad, Sofie Valk, Antoine Beauchamp

Chairs: Dr. Clyde Francks and Co-Chair: Dr. Megan Mulligan

CHAIR: [Clyde Francks](#)

09:00 [Allan Johnson](#)

HiDiver: Merging Magnetic Resonance and Light Sheet Microscopy with 3D Labels
([abstract](#))

09:25 [Antoine Beauchamp](#)

Whole-brain comparison of rodent and human brains using spatial transcriptomics ([abstract](#))

09:50 [Sofie Valk](#)

Genetic and phylogenetic uncoupling of structure and function in human transmodal cortex ([abstract](#))

10:15 [Neda Jahanshad](#)

Enhancing Neuro Imaging Genetics through Meta Analysis - Recent GWAS updates and new initiatives from the ENIGMA Consortium
([abstract](#))

10:40 [Sha Zhiqiang](#)

Genetic architecture of the white matter connectome of the human brain ([abstract](#))

11:00-11:15 Break

11:15-12:15 Session 15

Outstanding Travel Awardees

CHAIRS: [Amy Lasek](#) and [Paul Meyer](#)

11:15 [Justin Kenney](#)

Towards the Neural Basis of Individual Differences in the Exploratory Behavior of Zebrafish ([abstract](#))

11:30 [Luis Hernandez-Nunez](#)

The thermo-balancing act: The molecular, cellular, and behavioral mechanisms underlying thermal homeostasis in larval *Drosophila* ([abstract](#))

11:45 [Laurel Seemlier](#)

Inbred mouse strain differences in adolescent hippocampal learning and gene expression after acute ethanol exposure ([abstract](#))

12:00 [Kelly Wingfield](#)

Behavioral differences in neonatal opioid withdrawal syndrome (NOWS) model

phenotypes in FVB substrains following perinatal morphine exposure ([abstract](#))

12:15-13:00 Lunch Break

13:00-15:00 Session 16

Symposium 2. *Genetic studies of drug addiction-related traits in outbred rats*

Speakers: Abe Palmer, Paul Meyer, Hao Chen, Francesca Telese, Alexandria Szalanczy

Chair: Dr. Oksana Polesskaya

CHAIR: [Oksana Polesskaya](#)

13:00 [Abraham Palmer](#)

Overview of the NIDA center for genetic studies of drug abuse in outbred rats
([abstract](#))

13:25 [Hao Chen](#)

Genome-Wide Association Study on Three Behaviors Tested in an Open Field in Heterogeneous Stock Rats Identifies Multiple Loci Implicated in Psychiatric Disorders
([abstract](#))

13:50 [Paul Meyer](#)

Genome-Wide Association Study Identifies Multiple Loci for Cue-Responsivity Measured During a Pavlovian Conditioned Approach Paradigm. ([abstract](#))

14:15 [Francesca Telese](#)

Cell type-specific transcriptional and regulatory mechanisms associated with addiction-related behaviors in HS rats
([abstract](#))

14:40 [Alexandria Szalanczy](#)

Keratinocyte-associated protein 3 may participate in the stress response to impact adiposity and behavior ([abstract](#))

15:15-15:30 Break

15:30-17:30 Session 17

Poster Session I

[Jeffrey Hatfield](#)

P1 Genetic Variation in Cocaine Preference in the *Drosophila melanogaster* Genetic Reference Panel
([abstract](#))

[Austin Korgan](#)

P3 Diet and Parent-of-Origin Dependent Effects of Body Composition, Locomotor Activity, and AgRP Neuronal Activity are Sex Specific in PWK/PhJ x C57BL/6J F1 Mice ([abstract](#))

[Susan Maloney](#)

Participation of the neurodevelopmental disorder associated gene MYT1L in motor function and

sensory responsivity. ([abstract](#))

[Neha Rajput](#)

P7 Beyond bold versus shy: zebrafish exhibit multiple distinct behavioral types during exploration of a novel tank. ([abstract](#))

[Ashley Hayden](#)

P9 Decoding the Role of Synaptically Translated RNA Binding Proteins in Associative Memory ([abstract](#))

[Christina Hansen](#)

P11 Modelling seizure-induced and extinction learning-dependent neuronal activation in pediatric epilepsy ([abstract](#))

[Kristin Scaplen](#)

P13 Neural circuits for low and moderate alcohol responses in *Drosophila melanogaster* ([abstract](#))

[Jason Bubier](#)

P15 The relationship between host genetics, microbiome composition and addictive or addictive-predictive behavior in Diversity Outbred mice. ([abstract](#))

[Mary Kaldunski](#)

P17 The Rat Genome Database (RGD) facilitates neurological disease genes research and cross-species analyses ([abstract](#))

[Katherine McCullough](#)

P19 Characterization of novel clinically-relevant behavioral phenotypes in young adult Mucopolysaccharidosis IIIB mice ([abstract](#))

[Justin Anderson](#)

P21 Gene expression profiles in HS-CC founder strains ([abstract](#))

[Riley Marchin](#)

P23 Measuring negative affective withdrawal in CFW mice: Implications for GWAS ([abstract](#))

[Ellen McMullen](#)

P25 Interspecific *Drosophila* Recombinant Inbred Lines as a Tool to Determine Genetic Basis of Neophilia ([abstract](#))

[Oksana Polesskaya](#)

P27 Making data from the Center for GWAS in outbred rats FAIR ([abstract](#))

[Ariel Zhang](#)

P29 Effect of Chronic Stress on Inflammation in the hippocampus ([abstract](#))

[Elizabeth Alcantara](#)

P31 Investigating the role of Methylglyoxal as a GABAA Agonist through Glyoxalase 1 Manipulation ([abstract](#))

[Tariq Brown](#)

P33 Alcohol-Induced Alternative Splicing in *Drosophila* Memory Circuits ([abstract](#))

[Laura Smith](#)

P35 Effects of cocaine on brain and behavior: an evaluation of the fragile X mental retardation protein in dopamine D1 receptor-expressing cells of the striatum ([abstract](#))

[Amanda Kowalczyk](#)

P37 Evaluating the convergent evolution of genes associated with pair bonding in mammals ([abstract](#))

[David Ashbrook](#)

P39 The importance of genetic background for model organism genetics, with implications for Alzheimer's disease and longevity ([abstract](#))

[Joshua Dearborn](#)

P41 Development of gait abnormalities and tremor in a mouse model of Krabbe disease ([abstract](#))

[Elias Elias](#)

P43 Exercise Promotes Sex-Specific Resilience to The Effects of Chronic Stress ([abstract](#))

[Inga Poletaeva](#)

P45 Selecting mice for high cognitive abilities ([abstract](#))

[Kelly Wingfield](#)

P47 Behavioral differences in neonatal opioid withdrawal syndrome (NOWS) model phenotypes in FVB substrains following perinatal morphine exposure ([abstract](#))

[Benjamin Soibam](#)

P49 Predicting genotype of fruit flies from locomotive trajectories using supervised Machine Learning ([abstract](#))

Wednesday, May 25th

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

08:00-09:00 Session 18

Refreshments and Onsite Registration

09:00-10:00 Session 19

Distinguished Scientist Award

Elissa Chesler

CHAIR: [Rob Williams](#)

09:00 [Elissa Chesler](#)

Distinguished Investigator Award

Presentation: Dr. Elissa Chesler ([abstract](#))

10:00-10:15 Break

10:15-12:15 Session 20

Symposium 3. *Behavior Quantification using Machine Learning: Challenges and Opportunities*

Speakers: Sara Lisanby, Ann Kennedy, Eric Yttri, Vivek Kumar

Chair: Dr. Vivek Kumar

CHAIR: [Rob Williams](#)

10:15 [Sarah Lisanby](#)

Brain-Behavior Quantification and Synchronization ([abstract](#))

10:40 [Eric Yttri](#)

B-SOiD: Automated extraction of meaningful behaviors from any position data without user bias ([abstract](#))

11:05 [Ann Kennedy](#)

Establishing benchmarks for better behavior quantification ([abstract](#))

11:30 [Vivek Kumar](#)

Integrated, machine learning based advanced phenotyping platform for the laboratory mouse ([abstract](#))

12:15-13:00 Lunch Break

13:00-14:00 Session 21

Young Investigator Award

Dr. Monica Dus

CHAIR: [Karla Kaun](#)

13:00 [Monica Dus](#)

Confection Confusion: the Interplay between diet, genes, and taste ([abstract](#))

14:00-14:15 Break

14:15-16:15 Session 22

Symposium 4

Selected talks

CHAIRS: [Catharine Rankin](#) and [Lisa Tarantino](#)

14:15 [Catharine Rankin](#)

Rapid Assessment of the Temporal Function and Phenotypic Reversibility of Neurodevelopmental Disorder Risk Genes using Auxin-Inducible Degradation in *C. elegans* ([abstract](#))

14:30 [Pelin Volkan](#)

Transcriptional and chromatin-based reprogramming of behaviors with social experience and pheromone signaling ([abstract](#))

14:45 [Simona Sarafinowska](#)

The automated social operant task: a quantitative measure of social motivation in mice. ([abstract](#))

15:00 [Amy Lasek](#)

Role for the poly r(C)-binding protein 1 (PCBP1) in altered RNA splicing in the hippocampus of rats during withdrawal from

chronic ethanol exposure and human subjects with AUD ([abstract](#))

15:15 [Steven Clapcote](#)

PDZD8 Disruption Causes Cognitive Impairment in Humans and Mice ([abstract](#))

15:30 [Alexis Santana-Cruz](#)

Function of the BN2 neurons in a neural circuit of the adult fruit fly ([abstract](#))

15:45 [Lisa Tarantino](#)

Genetic and non-genetic contributors to behavioral differences among inbred mouse substrains ([abstract](#))

16:00 [Kayla Nygaard](#)

Increased social motivation, motor deficits, and anxiety-like center avoidance in a mouse model of a Williams Syndrome deletion are not the result of Gtf2ird1 expression alone. ([abstract](#))

16:15-16:30 Break

16:30-18:30 Session 23

Poster Session II

[Hayley Thorpe](#)

P2 Cell adhesion molecule 2 deletion reduces impulsivity and voluntary cannabinoid intake, and impairs physiological response to THC in mice ([abstract](#))

[David Linsenbardt](#)

P4 High Intensity Alcohol Drinking in Mice Leads to Novel Corticostriatal Gene Expression Alterations ([abstract](#))

[Yanning Zuo](#)

P6 Chronic adolescent exposure to cannabis in mice leads to sex-biased changes in gene expression networks across brain regions ([abstract](#))

[Soaleha Shams](#)

P8 Effect of Genetic Manipulation of Stress Modulators on Social Interaction in Zebrafish ([abstract](#))

[Nicole Leitner](#)

P10 Interactions between neuronal sex determination and Hox gene specification drive the segmental specialization of neural circuits along the anterior-posterior brain axis in Drosophila ([abstract](#))

[Danila Cuomo](#)

P12 Interindividual variation in neurological traits in response to early-life Pb exposure ([abstract](#))

[Winona Booher](#)

P14 RNA-Sequencing in Heterogeneous Stock Mice Selected for Nicotine Preference ([abstract](#))

[Alexandria Wilson](#)

P16 The role of Drosophila Stat92E signaling in response to repeated alcohol exposures ([abstract](#))

[Mackenzie Sievers](#)

P18 Impact of repeated alcohol exposure on neural STAT signaling activity in Drosophila ([abstract](#))

[Katherine Sena](#)

P20 BALB/cByJ show indiscriminate binge-like eating of both sweetened palatable food and chow compared to BALB/cJ under intermittent, limited access conditions ([abstract](#))

[Rebecca Schnabel](#)

P22 Investigating genetic modifiers of vertebrate stress through genome engineering ([abstract](#))

[Montserrat Orozco](#)

P24 Daily Binge Drinking Leads to Alterations in Circadian Behavior in C57BL/6J Male and Female Mice ([abstract](#))

[Erik Nolan](#)

P26 A Drosophila model for the role of Williams Syndrome-related factor eIF4H in neural development and behavior ([abstract](#))

[Erika Mehrhoff](#)

P28 Diazepam Effects on Anxiety-related Defensive Behavior of High and Low Open-Field Activity Inbred Mouse Strains ([abstract](#))

[Saeedeh Hosseinian](#)

P30 A forward genetic screen of ENU-mutagenised zebrafish identifies a mutation co-segregating with impulsivity ([abstract](#))

[Will Lynch](#)

P32 The methamphetamine-induced hnRNP H targetome identifies CACNA2D2 as a downstream mechanistic target underlying behavior: Pharmacological validation with pregabalin ([abstract](#))

[Dana Hodorovich](#)

P34 Location-Specific Mutations In CHD7 Induce Specific Sensorimotor Phenotypes In a Zebrafish CHARGE Syndrome Model ([abstract](#))

[Izzabella Green](#)

P36 Both *tfbr1b* and *unkl* impact larval zebrafish locomotor responses and may be genetic modifiers of the vertebrate stress response. ([abstract](#))

[Eamonn Duffy](#)

P38 Characterization of oxycodone use disorder phenotypes in select rat strains of the Hybrid Rat Diversity Panel ([abstract](#))

[Jake Deslauriers](#)

P40 *cyfip2* controls the acoustic startle threshold ([abstract](#))

[Jacob Beierle](#)

P42 A reduced complexity cross between BALB/c substrains identifies *Zhx2* as a candidate gene

underlying oxycodone metabolite brain concentration and state-dependent learning of opioid reward ([abstract](#))

[Maria Porter](#)

P44 A Pair of Serotonergic Neurons Influence the Circadian Regulation of Short-Term Learning and Memory in *Drosophila melanogaster* ([abstract](#))

[Levi Gavette](#)

P46 Cocaine withdrawal in the CC/DO founder mouse strains: Interstrain variation and heritability of negative affective withdrawal ([abstract](#))

[Michelle Bloyd](#)

P48 PKA RII α Deficiency is Associated with Altered Downstream Expression of Dopamine and Serotonin Signaling Molecules ([abstract](#))

[Franka Rigo](#)

P50 Genetic screen and proteomic analysis: complementary approaches for studying methamphetamine-induced behaviors in *D. melanogaster* ([abstract](#))

[Gaurav Shrestha](#)

P52 Presynaptic Protein Interaction In Alcohol-Related Behavior In *Drosophila* ([abstract](#))

[Prescilla Garcia-Trevizo](#)

P54 Long-term effects of adolescent nicotine exposure vary by genetic background in learning, anxiety-like phenotypes and nicotine sensitivity. ([abstract](#))

[Austin Korgan](#)

P56 Deploying genetic diversity to explore the impact of diet-induced obesity on AgRP neuronal activity ([abstract](#))

[Kayla Nygaard](#)

P58 Increased social motivation, motor deficits, and anxiety-like center avoidance in a mouse model of a Williams Syndrome deletion are not the result of *Gtf2ird1* expression alone. ([abstract](#))

[Simona Sarafinovska](#)

P60 The automated social operant task: a quantitative measure of social motivation in mice. ([abstract](#))

Thursday, May 26th

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

08:00-09:00 Session 24

Refreshments and Onsite Registration

08:15-08:45 Session 25

ExComm Meeting

09:00-10:00 Session 26

Presidential Lecture

Dr. Arpana Agarwal

CHAIR: [Camron Bryant](#)

09:00 [Arpana Agrawal](#)

Genome-wide Association Studies and the Gene-Brain-Behavior Pathway to Addiction
([abstract](#))

10:00-10:15 Break

10:15-12:15 Session 27

Symposium 5. *Revolutionary genomics: Third-generation sequencing and pangenome approaches to understanding genes and behavior*

Speakers: Thomas Keane, Laura Saba, Tomas Fitzgerald, and Erik Garrison

Chair: Dr. David Ashbrook

CHAIR: [David Ashbrook](#)

10:15 [Tomas Fitzgerald](#)

Genomic variations and epigenomic landscape of the Medaka Inbred Kiyosu-Karlsruhe (MIKK) panel ([abstract](#))

10:40 [Laura Saba](#)

Mapping transcriptome structure diversity in rat brain and liver using single molecule RNA sequencing ([abstract](#))

11:05 [Erik Garrison](#)

Pangenomes from many points of view
([abstract](#))

11:30 [Thomas Keane](#)

New era of mouse genomics with a plurality of reference genomes ([abstract](#))

11:55 [Adrian Rothenfluh](#)

Iterative ATAC-seq (assay for transposase-accessible chromatin) to home in on neurons regulating behavior. ([abstract](#))

12:15-13:00 Lunch Break

12:15-13:15 Session 28

Business Meeting and Lunch

Friday, May 27th

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

08:00-09:00 Session 29

Refreshments and Onsite Registration

09:00-11:00 Session 30

Symposium 6. *Revealing the function of sleep from flies to humans*

Speakers: Paul Shaw, Maxime Jan, Malcolm von Shantz, Nirinjini Naidoo

Chair: Dr. Rozi Andretić and Co-Chair: Dr. Kristin Hamre

CHAIR: [Kristin Hamre](#)

09:00 [Paul Shaw](#)

Symposium: Revealing the function of sleep from flies to humans ([abstract](#))

09:25 [Nirinjini Naidoo](#)

Cellular stress and behavior, role of the UPR in sleep and cognition ([abstract](#))

09:50 [Maxime Jan](#)

Metabolome, transcriptome, and epigenome: the other phenotypes of sleep loss ([abstract](#))

10:15 [Malcolm von Shantz](#)

Defining robust sleep phenotypes for human genetic population studies ([abstract](#))

11:00-11:15 Break

11:15-12:15 Session 31

keynote Speaker

Dr. Susan Ackerman

CHAIR: [Megan Mulligan](#)

11:15 [Susan Ackerman](#)

tRNAs, Ribosome Stalling, and Neuronal Function ([abstract](#))

12:15-13:00 Lunch Break

13:00-15:00 Session 32

The Cerebellar Nuclei in the Limelight (at Last)

Speakers: Marylka Yoe Uusisaari, Justus Kebschull, Richard Wingate, Abigail Person

Chair: Dr. Dan Goldowitz

CHAIR: [Dan Goldowitz](#)

13:00 [Tom Ruigrok](#)

The cerebellar nuclei: setting the stage ([abstract](#))

13:25 [Justus Kebschull](#)

A deeply conserved cell-type set forms an archetypal cerebellar nucleus ([abstract](#))

13:50 [Richard Wingate](#)

The evodevo of cerebellar nuclei: from temporal patterning to autistic spectrum disorder ([abstract](#))

14:15 [Abigail Person](#)

Cerebellar refinement of skilled movements ([abstract](#))

18:00-22:00

Banquet

The Jack Robinson Gallery

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