IBANGS 2022: GENES, BRAIN AND BEHAVIOR 2022

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Genes, Brain and Behavior 2022

23rd Annual Genes, Brains & Behavior Meeting
University of Tennesee Health Science Center
May 23-27th, 2022
IBANGS 2022: GENES, BRAIN AND BEHAVIOR 2022
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Sponsors Genes, Brain and Behavior Memphis 2022

10X GENOMICS

The Jackson Laboratory
Leading the search for tomorrow's cures

National Institute on Alcohol Abuse and Alcoholism

The University of Tennessee Health Science Center

WILEY
Publishers Since 1807
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
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.
IBANGS 2022:
GENES, BRAIN AND BEHAVIOR 2022

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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 Scaplen)

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 Scaplen)

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

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<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
<th>Abstract</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Allan Johnson</td>
<td>HiDiver: Merging Magnetic Resonance and Light Sheet Microscopy with 3D Labels</td>
<td>[abstract]</td>
</tr>
<tr>
<td>09:25</td>
<td>Antoine Beauchamp</td>
<td>Whole-brain comparison of rodent and human brains using spatial transcriptomics</td>
<td>[abstract]</td>
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<tr>
<td>09:50</td>
<td>Sofie Valk</td>
<td>Genetic and phylogenetic uncoupling of structure and function in human transmodal cortex</td>
<td>[abstract]</td>
</tr>
<tr>
<td>10:15</td>
<td>Neda Jahanshad</td>
<td>Enhancing Neuro Imaging Genetics through Meta Analysis - Recent GWAS updates and new initiatives from the ENIGMA Consortium</td>
<td>[abstract]</td>
</tr>
<tr>
<td>10:40</td>
<td>Sha Zhiqiang</td>
<td>Genetic architecture of the white matter connectome of the human brain</td>
<td>[abstract]</td>
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11:00-11:15 Break

11:15-12:15 Session 15

Outstanding Travel Awardees

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
<th>Abstract</th>
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<tbody>
<tr>
<td>11:15</td>
<td>Justin Kenney</td>
<td>Towards the Neural Basis of Individual Differences in the Exploratory Behavior of Zebrafish</td>
<td>[abstract]</td>
</tr>
<tr>
<td>11:30</td>
<td>Luis Hernandez-Nunez</td>
<td>The thermo-balancing act: The molecular, cellular, and behavioral mechanisms underlying thermal homeostasis in larval Drosophila</td>
<td>[abstract]</td>
</tr>
<tr>
<td>11:45</td>
<td>Laurel Seemler</td>
<td>Inbred mouse strain differences in adolescent hippocampal learning and gene expression after acute ethanol exposure</td>
<td>[abstract]</td>
</tr>
<tr>
<td>12:00</td>
<td>Kelly Wingfield</td>
<td>Behavioral differences in neonatal opioid withdrawal syndrome (NOWS) model</td>
<td></td>
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</table>
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 Mucopolysaccharisosis 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)

Tarig 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: 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 Sarafinovska
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)
Monserrat 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 RIIα 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

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<tbody>
<tr>
<td>08:00-09:00</td>
<td>Session 24</td>
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<tr>
<td>08:15-08:45</td>
<td>Refreshments and Onsite Registration</td>
</tr>
<tr>
<td>09:00-10:00</td>
<td>Session 26</td>
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</tbody>
</table>
Presidential Lecture

Dr. Arpana Agarwal

CHAIR: Cameron 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

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<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
<th>Abstract</th>
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<tbody>
<tr>
<td>09:00</td>
<td><strong>Paul Shaw</strong></td>
<td>Symposium: Revealing the function of sleep from flies to humans</td>
<td>[abstract]</td>
</tr>
<tr>
<td>09:25</td>
<td><strong>Nirinjini Naidoo</strong></td>
<td>Cellular stress and behavior, role of the UPR in sleep and cognition</td>
<td>[abstract]</td>
</tr>
<tr>
<td>09:50</td>
<td><strong>Maxime Jan</strong></td>
<td>Metabolome, transcriptome, and epigenome: the other phenotypes of sleep loss</td>
<td>[abstract]</td>
</tr>
<tr>
<td>10:15</td>
<td><strong>Malcolm von Shantz</strong></td>
<td>Defining robust sleep phenotypes for human genetic population studies</td>
<td>[abstract]</td>
</tr>
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11:00-11:15 Break

11:15-12:15 Session 31

**keynote Speaker**

**Dr. Susan Ackerman**

<table>
<thead>
<tr>
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<th>Speaker</th>
<th>Title</th>
<th>Abstract</th>
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<tbody>
<tr>
<td>11:15</td>
<td><strong>Susan Ackerman</strong></td>
<td>tRNAs, Ribosome Stalling, and Neuronal Function</td>
<td>[abstract]</td>
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</table>

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

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<tr>
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<th>Abstract</th>
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<tbody>
<tr>
<td>13:00</td>
<td><strong>Tom Ruigrok</strong></td>
<td>The cerebellar nuclei: setting the stage</td>
<td>[abstract]</td>
</tr>
<tr>
<td>13:25</td>
<td><strong>Justus Kebschull</strong></td>
<td>A deeply conserved cell-type set forms an archetypal cerebellar nucleus</td>
<td>[abstract]</td>
</tr>
<tr>
<td>13:50</td>
<td><strong>Richard Wingate</strong></td>
<td>The evodevo of cerebellar nuclei: from temporal patterning to autistic spectrum disorder</td>
<td>[abstract]</td>
</tr>
<tr>
<td>14:15</td>
<td><strong>Abigail Person</strong></td>
<td>Cerebellar refinement of skilled movements</td>
<td>[abstract]</td>
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<tr>
<td>18:00-22:00</td>
<td>Banquet</td>
<td>The Jack Robinson Gallery</td>
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