# **Conference Agenda**

## **Program Overview**

#### Date: Monday, 19/May/2025

11:00am	Executive Committee Meeting
- 12:00pm	
12:00pm	Lunch
- 1:00pm	Location: Veranda
12:00pm	Trainee Workshop: Networking for Success in Science
-	Location: Ratu Makutu Event Centre
4:30pm	Chair: Kristin Scaplen
	Join us for an opportunity to introduce yourself and your science and network amongst your peers before the start of the meeting. In
	"Networking for Success in Science", trainees will have a chance to
	practice their scientific elevator pitches during a two-minute lightning talk followed by informal small group discussions to facilitate crossdisciplinary
	interactions and open windows for potential collaborations.
	End the workshop with an energetic round of speed mentoring where you can cycle through multiple five-minute Q&A conversations with
	established IBANGS members and mentors in the field.
5:00pm	Presidential Address: Professor Margaret McCarthy
-	Location: Ratu Makutu Event Centre Chair: Megan Mulligan
6:00pm	
	Power Play: Enduring Impacts of Adolescent Social Behavior
	Margaret McCarthy
	University of Maryland
6:00pm -	Welcome Reception Location: Lagoon Lawn / Beach
8:30pm	Entertainment: Fire Dance Performance
	Hors d'oeuvres & Refreshments

## Date: Tuesday, 20/May/2025

	Jour January Tours
8:00am - 10:00am	Symposium 1: Weaving Together the Strands: Cross-Species Insights into the Genetic and Epigenetic Mechanisms of Early Adversity Location: Ratu Makutu Event Centre Chair: Rodrigo Grassi-Oliveira Chair: Tracy Bale
	Translational methods to capture PTSD-related phenotypes in humans with trauma and PTSD Tanja Jovanovic Wayne State University
	Mechanisms linking early adversity experience with fear and sensory system programming Tracy Bale University of Colorado Anschutz
	ADHD and the Hidden Complexity Behind Contrasting Environments Diego Rovaris University of São Paulo
	Epigenetic Impact of Trauma and Cocaine Use Disorder: Evidence from a Human Cohort Rodrigo Grassi-Oliveira Aarhus University
10:00am	Tea/E-Poster Session 1 Location: Veranda
10:30am	Operant set-shifting in mouse lines selectively bred for ethanol preference Cheryl Reed Oregon Health & Science University
	Investigating the Role of Drosophila Dorsal Paired Medial (DPM) Neurons in Alcohol-Reward Memory. Kristin Scalpen Bryant University
10:30am - 11:30am	Keynote Address: Professor Barry Dickson Location: Ratu Makutu Event Centre Chair: Timothy Bredy
	Wired for sex: How the mating instinct is programmed into a fly's brain Barry Dickson Queensland Brain Institute
11:30am - 12:00pm	Data Blitz 1 Location: Ratu Makutu Event Centre Chair: André Lucas Silva Borges
	Effects of Chronic Unpredictable Stress on Dopamine: Stimulated Release, Half-life, and Auto receptor functioning in C57BL/6J and DBA2/J mice. Melloni Cook University of Memphis
	Differential striatal gene expression profiles underlying the propensity for depressionlike behaviour in a mouse model of vertical sleeve Renee Papaluca University of Melbourne
	A possible mechanism to link HTR1B genotype with the callous-unemotional phenotype. Caroline Moul University of Sydney
unftool pro/ii	The role of context dependant cis-regulatory elements in disease: an intronic region of BDNF gene involved in the modulation of mood and anxiety. Andrew Mcewan University of Aberdeen
	Effects of chronic ethanol exposure on proteolytic processing of the perineuronal net protein brevican and role for brevican in aversion-resistant ethanol consumption Jonathas Almeida Virginia Commonwealth University
	bangs2025/index.php?page=browseSessions&print=yes&cols=4&mode=table&presentations=show 2

	Overexpression of OTX2 in Human Neural Cells Links Depression Risk Genes Cathy Barr Krembil Research Institute
	Knockout of the Histone Chaperone Anp32e Alters H2A.Z Distribution, Gene Expression, and Adult Behavior Sandra Youssef University of Ottawa
	Genetic Influences on the Metabolism of Orally Administered Δ9-Tetrahydrocannabinol in the Mouse Winona Booher University of Colorado Boulder
	Endocannabinoids system and alcohol effects across lifespan Emmanuel Onaivi William Paterson University
12:00pm -	Lunch Location: Veranda
1:00pm	
1:00pm	Open
3:00pm 3:00pm	Symposium 2: RNA Modifications: Implications for Brain Function and Behavior
- 5:00pm	Location: Ratu Makutu Event Centre Chair: Ina Anreiter
cicopiii	Epitranscriptomic regulation of feeding behaviour in Drosophila Melanogaster Ina Anreiter University of Toronto
	Deciphering the roles of m6A and YTHDF proteins in synaptic function and plasticity Mathieu Flamand Centre de Recherche du CHU de Québec - Université Laval
	CircRNA-derived micropeptides at the synapse: a new mechanism of plasticity and memory? Tim Bredy University of Queensland
	RNA modulation in brain disorders Yanhong Shi City of Hope
5:00pm	Tea/E-Poster Session 2 Location: Veranda
5:30pm	E-Poster: Differential striatal gene expression profiles underlying the propensity for depressionlike behaviour in a mouse model of vertical sleeve Renee Papaluca University of Melbourne
	E-Poster: Endocannabinoids system and alcohol effects across lifespan Emmanuel Ovaivi William Paterson University
5:30pm - 6:30pm	Selected Talks 1 Location: Ratu Makutu Event Centre Chair: Andrew Mcewan
	GWAS of Neuroimaging Derived Subtypes of Alcohol Use Disorder Alexander Hatoum Washington University School of Medicine
	Genetic basis of paclitaxel-induced mechanical and cold hypersensitivity in a C57BL/6 reduced complexity cross Will Lynch Boston University

	A female-specific role for cortical Eph receptors in depression Melissa Perreault University of Guelph
6:30pm - 7:00pm	Data Blitz 2 Location: Ratu Makutu Event Centre Chair: Olivia Wiliams
	The autism-linked gene ap2s1 modulates acoustically-evoked habituation learning and behavior selection by regulating excitatory drive on hindbrain command neurons Roshan Jain Haverford College
	Immp2I gene knockdown in mice increases stimulus-driven instrumental behaviour but does not alter goa directed learning in a model of Tourette syndrome and autism spectrum disorder Teri Furlong University of New South Wales
	Do genetic predictors of poor mental health capture biological or environmental factors in humans? Anna Dearman University of Essex
	Distinct prefrontal cortex neuronal ensembles bidirectionally regulate heroin seeking Jamie Peters University of Alabama at Birmingham
	A Novel Approach for Targeting Brain Long Non-Coding RNA to Influence Behaviour Kelly Clemens University of New South Wales
	Effects of chemogenetic activation of hypothalamic oxytocin neurons on alcohol self-administration in male and female mice Sam Gottlieb Medical University of South Carolina
	A Single-Cell Atlas of Gene Expression and Chromatin Accessibility in the Rat Nucleus Accumbens Reveals Molecular Signatures of Oxycodone Addiction Francesca Telese University of California San Diego
	State-dependent properties of co-transmitting neurons Lewis Sherer Brown University
	LAGS+ an LAGS- two new mouse models based on bidirectional genetic selection to identify death- induced genes in epilepsy Benoit Martin Université de Rennes INSERM
	2. Activity-based anorexia (ABA) in rats: How reward value "drives the wheel" Kaixin Huang Monash Univesity
7:00pm - 10:00pm	Dinner/Resort Restaurants Location: Dinner Resort Restaurants

## Date: Wednesday, 21/May/2025

8:00am - 10:00am	Symposium 3: Mechanisms underlying individual variation in motivated behavior Location: Ratu Makutu Event Centre Chair: Karla Kaun
	Inter-individual differences in Drosophila are shaped by sex, motivational states and physiology. Galit Shohat-Ophir Bar-Ilan University
	Cross-species paradigm for understanding differences in punishment avoidance Philip Jean-Richard-dit-Bressel UNSW Sydney
	Responding on a progressive ratio schedule of reinforcement correlates with nucleus accumbens core dopamine transmission in a genetically diverse inbred mouse panel J. David Jentsch Binghamton University
	Mechanisms for individual variation in alcohol self-administration in Drosophila Karla Kaun Brown University
0:00am -	Tea/E-Poster Session 3 Location: Veranda
10:30am	E-Poster: Genetic Influences on the Metabolism of Orally Administered Δ9-Tetrahydrocannabinol in the Mouse Winona Booher University of Colorado Boulder
0:30am	Early Career Achievement Award Lecture: Caroline Ménard
- 1:30am	Location: Ratu Makutu Event Centre Chair: Kelly Clemens
1:30am - 2:00pm	Data Blitz 3 Location: Ratu Makutu Event Centre Chair: Sonali Reisinger
	Acute and chronic psilocybin in mouse models of psychiatric disorders Thibault Renoir University of Melbourne
	Toward an understanding of the therapeutically relevant mechanisms of psilocybin for treating anorexia nervosa Claire Foldi Monash University
	CNS-wide engraftment of Human Monocytes, but not Microglia, induces a chronic proinflammatory state associated with demyelination, astrogliosis, synapse loss, and behavioral dysfunction Hayk Davtyan University of California Irvine
	Specific regulation of extracellular matrix hyaluronan in distinct brain regions following spatial learning. Karen Mifsud University of Bristol
	AKT2 modulates astrocytic nicotine responses in vivo Charles Hoeffer University of Colorado Boulder
	Multiomic Quantification of Strain and Sex Differences in the Acute Behavioral Response to High-dose         Delta-9-Tetrahydrocannabinol (THC).         Megan Mulligan         University of Tennessee Health Science Center
	Maternal immune activation and raloxifene treatment differentially alter neurotransmitter-related transcription in the dorsal striatum of adult rats Priscila Costa

	Neuroscience Research Australia
	Associations between genetic influences for distinct aspects of impulsivity and early substance use initiation in the ABCD Study Ethan Kinstler Washington University in Saint Louis
12:00pm -	Lunch Location: Veranda
1:00pm	
1:00pm -	Open
3:00pm	
3:00pm -	Symposium 4: Molecular Switches of Addiction: Unraveling the Role of RNA Splicing in Substance Use Disorders Location: Ratu Makutu Event Centre
5:00pm	Chair: Amy Lasek
	Functional consequences of alternative splicing in polysubstance use Emily Petruccelli Southern Illinois University Edwardsville
	Chromatin-mediated alternative splicing in cocaine behavior Elizabeth Heller University of Pennsylvania
	2. Molecular Mechanisms of Alcohol Withdrawal: The Emerging Role of the RNA-Binding Protein PCBP1 Luana Carvalho Virginia Commonwealth University
	Elevated intron retention implicates neuroinflammation in brains of individuals with alcohol use disorder Yunlong Liu Indiana University
5:00pm	Tea / E-poster Session 4 Location: Veranda
5:30pm	E-Poster: CNS-wide engraftment of Human Monocytes, but not Microglia, induces a chronic proinflammatory state associated with demyelination, astrogliosis, synapse loss, and behavioral dysfunction Hayk Davtyan University of California Irvine
	E-Poster: AKT2 modulates astrocytic nicotine responses in vivo
	Charles Hoeffer University of Colorado Boulder
5:30pm - 6:30pm	Selected Talks 2 Location: Ratu Makutu Event Centre Chair: Renee Papaluca
	Selective breeding and gut bacteria: enhanced active tameness in mice by administration of Limosilactobacillus reuteri Tsuyoshi Koide National Institute of Genetics
	Seahorse vision: Regional retinal specialisations support small prey capture Stephanie Heyworth University of Queensland
	The Role of Novel Histone Modifications in Sleep Regulation Wanhe Li Texas A&M University
	Fut2 genotype alters ethanol consumption, conditioned place preference, and gut microbiota composition in mice Amanda Barkley-Levenson University of New Mexico
6:30pm	Data Blitz 4
	Location: Ratu Makutu Event Centre Chair: Jonathas Almeida

	John Hernandez Brown University
	Impact of Repeated Binge Alcohol Consumption on Nucleus Accumbens Splicing
	David Linsenbardt University of New Mexico
	The Pedagogy of Neuroscience Research: Bridging Theory with Accessible Practice for Undergraduate Student Success
	Colleen Dockstader University of Toronto
	Neonatal opioid withdrawal traits in C57BL/6J and DBA/2J mice: Implications for genetic mapping in BXD recombinant inbred strains
	Camron Bryant Northeastern University
	Modelling cognitive and psychiatric behavioural traits in a mouse model of Neurofibromatosis type I Sonali Reisinger Florey Institute of Neuroscience and Mental Health
Phenotypic and Genotypic Relationships Among Addiction-Related Traits in Heterogeneous Stock Rats         Paul Meyer         University at Buffalo         Anxiety- and depression-like behavior in Slc39a8 deficient mice         André Lucas S. Borges         University of New Mexico	
	André Lucas S. Borges
	PKA instructs Drosophila Clock protein in regulating circadian transcription, mediating transcriptional synchrony in the circadian neuronal network. Deniz Top University of Alberta
	Sex-specific differences in cortical gene expression, neuronal oscillatory function, and behaviour followin prenatal valproic acid exposure Olivia Williams University of Guelph
	Alcohol Conditioned Place Preference and Alcohol Consumption in Dpp6 Knockout Mice. Maribel Hernández University of New Mexico Health Sciences Center
	Dinner/Resort Restaurants

#### Date: Thursday, 22/May/2025

8:30am - 9:30am	Distinguished Investigator Award Lecture: Professor Hee-Sup Shin Location: Ratu Makutu Event Centre Chair: Megan Mulligan
9:30am -	Tea / E-poster Session 5 Location: Veranda
10:00am	Bergmann glia suppress Purkinje cell firing via interneurons Sang Jeong Kim Seoul National University College of Medicine
	E-Poster Neonatal opioid withdrawal traits in C57BL/6J and DBA/2J mice: Implications for genetic mappin in BXD recombinant inbred strains Camron Bryant Northeastern University
	E-Poster: Phenotypic and Genotypic Relationships Among Addiction-Related Traits in Heterogeneous Stock Rats Paul Meyer University at Buffalo
10:00am - 12:00pm	Outstanding Travel Awardees Location: Ratu Makutu Event Centre Chair: Amy Lasek
	rbfox1 loss of function in zebrafish leads to dysregulation in bdnf/trkb2 and pac1a expression resulting in HPI axis hyperactivation, altered stress response and allostatic overload Adele Leggieri Queen Mary University of London
	Genetic and cellular sources of individual difference in goal-directed learning Alanna Carey Boston University
	Assessing Migraine Intensity Using Machine Vision Empowered Ethology Jacob Beierle The Jackson Laboratory
	High fat diet alters behavior and hippocampal gene expression in mice Melissa Totten Salem College
12:00pm	IBANGS Business Meeting/Lunch Location: Ratu Makutu Event Centre
1:00pm 1:00pm	Symposium 5: Moving the needle on eating disorders: novel neurogenetic and behavioral genetic insights Location: Ratu Makutu Event Centre
3:00pm	Chair: Claire Foldi Chair: Morgan H James
	A biological basis for binge eating as 'self-medication' Morgan James Monash Univesity
	Gut-brain mechanisms underlying disordered eating and mental health impacts of bariatric surgery Robyn Brown University of Melbourne
	1. A genetic signature of resistance to activity-based anorexia in corticostriatal projection neurons Kaixin Huang Monash Univesity
	Characterizing the Genetic Relationship between Binge Eating and Internalizing and Externalizing Disorders Maia Choi Rutgers University

3:30pm	
3:30pm	Selected Talks 3
-	Location: Ratu Makutu Event Centre Chair: Lewis Sherer
5:00pm	
	Intergenerational Effects Of Chronic Alcohol Exposure On The Mammalian Transcriptome
	Sean Farris
	University of Pittsburgh
	The role of gut microbiota on inter-breeder differences of aggression in ICR male mice Aki Takahashi University of Tsukuba
	Genetic mapping of tame behavior in a cross population of Japanese indigenous chickens
	Tatsuhiko Goto
	Obihiro University of Agriculture and Veterinary Medicine
6:00pm -	Closing Banquet Location: Lagoon/Beach
8:00pm	Entertainment: Meke Performance

#### Date: Friday, 23/May/2025

6:30am Breakfast & Checkout 10:00am