

The 9th international meeting of the Integrated Brain and Behavior Research Center
Gene x Environment Interactions in Brain Health and Disease

Safdie Auditorium, University of Haifa
June 14-16, 2022

Day 1, Tuesday June 14th

8:30-9:00	Coffee & registration	
9:00-9:30	Welcome: Organizing Committee	
9:30-10:30	Keynote: Asya Rolls	Remembering immunity: brain regulation of immune processes
	<u>Introduction:</u> Inna Gaisler-Salomon	
10:30-11:00	Coffee break	
11:00-13:00	Session1: Brain/Body communications and eating behavior	
	<u>Chair:</u> Kobi Rosenblum	
	Donald Katz	Embracing the moment: the importance of a sudden ensemble transition during sensorimotor processing
	Yoav Livneh	Cortical computations of current and future interoception within the brain-body loop
	Noam Weinbach	Response inhibition as a potential maintenance mechanism of anorexia nervosa
	Mouna Maroun	Effects of high-fat diet on cognitive and emotional processes in juvenile animals
	Rafi Lamprecht	The roles of actin regulatory proteins in memory formation
13:00-14:00	Lunch	
14:00-16:00	Session 2: Neurobiology of human iPSC derived neurons in health and disease	
	<u>Chair:</u> Shani Stern	
	Abed Mansour	Building Brain Cellular Complexity Using Stem-Cell Based Organoid Technology
	Gad Vatine	From personalized BBB-on-Chip to pre-clinical BBB-targeted gene therapy: The case of MCT8 gene therapy
	Simon Schafer	Modeling the susceptibility of human brain development for autism spectrum disorders
	Rami Aqeilan	Modeling and characterizing developmental epileptic encephalopathies: from basic science to translational medicine
	Jerome Mertens	Neuronal Fate Loss and Metabolic Transformation in Age-Equivalent Alzheimer Patient Neurons
16:00-18:00	Poster Session and light dinner (University)	
18:00	DJ Party	

Day 2, Wednesday June 15th

8:30-9:00 Coffee

9:00-11:00 **Session 1: The social brain: from animal models to human interactions**

Chair: Simone Shamay-Tsoory

Yann Coello
Shlomo Wagner

The social dimension of the peripersonal space
I know exactly how you feel – analysis of affective-
state recognition in mouse model of Autism
Spectrum Disorder

Noga Cohen

On the benefits of social emotion regulation

Anat Perry

Empathic accuracy and synchrony in social
interactions: a social neuroscience perspective

Shai Gabay

The evolution of prosocial tendencies: What can we
learn from the Archerfish?

11:30-12:00 Coffee break

12:00-13:00 **Keynote: Mara Mather**

**Increasing the coordination and responsivity of
emotion-related brain regions with a randomized
trial of a 5-week heart rate variability biofeedback
intervention**

Chair: Noga Cohen

13:00-14:00 Lunch

14:00-16:30 **Session 2: Fear and learning in health and psychopathology**

Chair: Avi Karni

Bram Vervliet

Regulating fear: from passive extinction to active
avoidance

Oded Rechavi

A switch controlling memory duration in *C. elegans*

Oded Klavir

Neural circuits of fear driven actions

Jan Haaker

Neuropharmacological pathways of social threat
learning

Stefano Palminteri

Context-Dependence Induces false memories of
Economic Values

Arianna Maffei

Neural mechanisms for taste learning

16:30-17:00 Coffee break

19:00 Dinner for invited speakers and chairs

Day 3, Thursday June 16th

8:30-9:00 Coffee

9:00-11:00 **Session 1: Emotional aspects of cognitive function**

Chair: Uri Hertz

Katrin Schulz

Cognitive control and emotion regulation: How close is the link?

Nazanin Derakhshan

Attentional control as a determinant of emotional vulnerability and resilience

Senne Braem

Learning to be in control

Sven Barnow

Emotion regulation, psychopathology, and the emotion under control training

Hadas Okon-Singer

Cognitive biases in psychopathology: Recent evidence and potential intervention strategies

11:00-12:30 **Meditation session and Blitz Talks**

Chair: Aviva Berkovich-Ohana

12:30-13:30 Lunch

13:30-15:30 **Session 2: Psychopathology**

Chair: Avi Mendelsohn

Gal Richter-Levin

Towards understanding individual variability in response to stress and trauma

Roe Admon

Novel approaches to identify and predict acute and chronic stress variability

Segev Barak

Neuronal ensembles in the nucleus accumbens control alcohol-memory reconsolidation and relapse

Tomer Shechner

Identifying abnormalities in neural activity during fear learning in anxious youth: An ERP study of threat-safety discrimination to predict CBT Outcomes

Irit Akirav

Cannabinoids prevent the development of a stressful phenotype associated with PTSD and depression

15:30-16:00 Coffee break

16:00-18:00 **Session 3: Epigenetics mediating gene x environment interactions in health and psychiatric illness**

Chair: Inna Gaisler-Salomon

Schahram Akbarian

The tRNA regulome in neuropsychiatric disease

Inna Gaisler-Salomon

Transgenerational inheritance of adolescent female stress

Edi Barkai

A biophysical mechanism for epigenetic inheritance of enhanced complex learning capabilities

Hermona Soreq

Non-coding RNA controllers of acetylcholine signaling as body-brain communicators

Gil Atzmon

Epigenetics signature as a predictive tool for drug response in an animal model of PTSD

18:00-19:00 **Keynote: Fred Gage**

Age related dysfunction in iN-derived neurons from sporadic Alzheimer's patients

Chair: Shani Stern

19:00-19:30 Poster awards and Closing remarks