The 8th international meeting of the Integrated Brain and Behavior Research Center
From Adaptive Functioning to Psychopathology
February 4-6, 2020
Hecht auditorium, University of Haifa

Tuesday Feb 4th 2020

9:00-9:30 Coffee & registration

9:30-10:00 Welcome: Oded Klavir & Roee Admon

10:00-11:00 Keynote: Kerry J. Ressler From Fear to Posttraumatic Stress Disorder: Cell specific circuitry of amygdala functioning and threat processing

11:00-11:30 Coffee break

Session1: Stress Reactions: from Vulnerability to Resilience

11:30-13:30 Chair: Irit Akirav

- Miranda Olff Gender, PTSD and the effects of intranasal oxytocin
- Eric Vermetten Windows of opportunity in understanding PTSD
- Carsten T. Wotjak Trauma-related hyperarousal: Cross-sensory modality signatures and structural correlates
- Yair Bar-Haim Attention Bias Modification for PTSD

13:30-14:30 Lunch

Session2: Social Interactions: Supportive to Harmful

14:30-16:30 Chair: Hadas Okon-Singer

- Inbal Ben-Ami Bartal Distinct neural circuit for pro-social intent in rats
Cristina Ottaviani  
Brain-body pathways to social stress: From ecological studies to non-invasive brain stimulation

Galit Shohat-Ophir  
Molecular mechanisms encoding social interaction in Drosophila

Shir Atzil  
Growing a social brain

Sietse F. De Boer  
Unraveling the vicious neuromolecular cycle towards violence: towards developing effective serenic treatment strategies

16:30-18:30  **Poster session 1 & drinks**

18:30  Dinner for invited speakers

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**Wednesday Feb 5th 2020**

9:00-9:30  **Coffee**

**Session 3:**  **From Habit to Bad Habit**

9:30-11:30  **Chair:** Avi Mendelsohn

**Christian Lüscher**  
Stochastic transition to compulsion in addiction

**Segev Barak**  
New molecular regulators of alcohol drinking in the mesolimbic and nigrostriatal systems

**Damiaan Denys**  
Deep Brain Stimulation in obsessive compulsive disorder: a decade of experience

**Eric Burguière**  
Closed-loop optogenetic regulation of compulsive behaviors

**Susanne E. Ahmari**  
Investigating the role of striatal neuron subtypes in compulsive behavior and treatment response

11:30-12:00  **Coffee break**

12:00-13:00  **Keynote: Carmen Sandi**  
Neural circuits for anxious actions: The emerging role of mitochondria
13:00-14:00  **Lunch**

14:00-15:00  Touring the University of Haifa (History & Scenery)

**Session 4:**  **From Molecules to Circuits to Behavior**

15:00-16:45  **Chair:** Hanoch Kaphzan

- **Joseph D. Buxbaum**  What is the evidence for specific genetic risk factors for social deficits in autism?
- **Andrea Sgoifo**  Psychobiological evidence on the efficacy of alternative stress resilience fostering strategies
- **Jonathan Roiser**  Computational Psychiatry: A mathematically informed approach to understanding mental illness
- **Hermona Soreq**  Exploring non-coding RNA regulators of acetylcholine functioning

16:45-18:30  **Poster session 2 & drinks**

18:30  Dinner for invited speakers

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**Thursday Feb 6th 2020**

9:00-9:30  **Coffee**

**Session 5:**  **Mechanisms for Social Behavior**

9:30-11:30  **Chair:** Tomer Shechner

- **Simone Shamay-Tsoory**  A two-brain approach for understanding how empathy contributes to distress regulation
- **Boaz Barak**  How can neuron-glia interactions modulate social behavior in a neurodevelopmental disorder?
- **Shlomo Wagner**  Deep phenotyping of social behavior in animal models
- **Rene Hurlemann**  Oxytocin: A novel therapeutic target for anxiety and posttraumatic stress disorders
11:30-12:00  **Coffee break**

12:00-13:00  **Keynote: Luiz Pessoa**  
Brain dynamics of interactions between emotion, motivation, and cognition

13:00-14:00  **Lunch**

**Session 6: Learning to Fear**

14:00-16:00  **Chair:** Mouna Maroun

- **Rony Paz**  
  Shared neural codes for eye-gaze and valence

- **Tom Smeets**  
  Avoidance behavior to learned threat cues

- **Talma Hendler**  
  Who is afraid of the human amygdala? from reactivity to regulation

- **Daniel Jercog**  
  (Cyril Herry)  
  Dynamical prefrontal population coding of valence and action controls active defensive behaviour

- **Lars Schwabe**  
  Stress-induced modulation of multiple memory system: implications for fear learning

16:30-17:00  **Concluding remarks & Best poster award:** Simone Shamay-Tsoory, Director, IBBRC

17:00-18:00  **Coffee Farewell**