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Molecular and Cellular Cognition Society Meeting

AGENDA

NYU ABU DHABI SAADIYAT CAMPUS

C2 Campus Center, East Forum

17-18, February, 2025

17th February, 2025 | DAY 1

6:30 – 8:30 AM	Breakfast Ramada Hotel Corniche <i>Buffet breakfast included for traveling guests only</i>
8:30 AM	Bus departure to NYUAD campus <i>Pick up outside hotel lobby</i>
9:00 - 9:15 AM	Registration C2 East Forum
9:15 - 9:20 AM	Welcome Remarks & Introduction Maurice Pomerantz , Excecutive Director, New York University Abu Dhabi
9:20 - 9:25 AM	Opening Remarks Satoshi Kida , University of Tokyo
9:25 - 10:40 AM	Session I Moderator: Lashmi Piriya Ananda , New York University Abu Dhabi
9:25-9:50 AM	<i>Systems consolidation involves reorganization of hippocampal engram circuits</i> Paul Frankland , Hospital for Sick Children Toronto
9:50-10:15 AM	<i>Hippocampal representation of contextual fear memory reconsolidation versus extinction</i> Satoshi Kida , University of Tokyo
10:15-10:40 AM	<i>Engram synapse</i> Bong-Kiun Kaang , Seoul National University
10:40 - 11:00 AM	Coffee, Refreshments, & Group Photoshoot C2 East Forum
11:00 - 12:15 PM	Session II Moderator: Lashmi Piriya Ananda , New York University Abu Dhabi

11:00 - 11:25 AM *Cerebellar Metaplasticity*
Jennifer Raymond, Stanford University

11:25 - 11:50 AM *Unusual mechanisms of memory*
Tim Bredy, The University of Queensland

11:50 - 12:15 PM *Anterior-Posterior Insula Circuit Mediates Retrieval of a Conditioned Immune Response in Mice*
Kobi Rosenblum, University of Haifa

12:15 - 12:45 PM **Flashtalk by poster presenters moderated by Ohtan Wang**

12:45 – 1:45 PM **Lunch**
The Torch Club
D2

1:45 - 3:25 PM **Session III**
Moderator: Kotaro Mizuta, New York University Abu Dhabi

1:45 - 2:10 PM *Abstractive representation of location memory in anterior cingulate gyrus*
Yasunori Hayashi, Kyoto University

2:10 - 2:35 PM *Xenotransplantation of human neural stem cells into mouse brain to study the effect of chronic stress on human neurons*
Kwok-on Lai, City University of Hong Kong

2:35 - 3:00 PM *Neural circuits for social memory consolidation and generalization*
Yong-Seok Lee, Seoul National University

3:00 - 3:25 PM *The idling brain in cognition*
Kaoru Inokuchi, University of Toyama

3:25 - 4:25 PM **Break & Poster Presentations**
C2 East Forum

Posters and Presenters:

The effects of stress on clock gene expression in adipose tissues and leptin signaling
Yana AlHebri, New York University Abu Dhabi

Sleep Deprivation Induces Strong Blunting of Gene Expression in Susceptible Phenotypes, Revealing Brain Region-Specific Changes in Stress Adaptation
Beemnet Andualem, New York University Abu Dhabi

Environment-Dependent Behavioral Responses in Mice with Forebrain-Specific Deletion of the m6A Reader Protein YTHDF3
Janine Micahella Contreras, New York University Abu Dhabi

H3 Receptor Antagonism Modulates Autophagy and Behavioral Traits in the BTBR T+ tf/J Mouse Model of Autism Spectrum Disorder
Nermin Elisa, Abu Dhabi University

Epitranscriptomic Regulation in Post-Traumatic Stress Disorder
Salem Abiel Eyob, New York University Abu Dhabi

SCAMAN: A Comprehensive Pipeline Reveals the Spatiotemporal Impact of YTHDF3 on Dendritic Spine Morphology and Diversity
Shengqun Hou, New York University Abu Dhabi

Mechanisms underlying rhythmic excitability in mammalian clock neurons
Sanzhar Kakenov, New York University Abu Dhabi

The role of m6a reader YTHDF3 in motivation, behavior flexibility, and synapse architecture
Danielle Laminta, New York University Abu Dhabi

Dysfunction of tRNA methyltransferases NSUN2 and TRMT61B in neuropsychiatric disorders
Bingwu Li, New York University Abu Dhabi

m6A reader protein YTHDF1 in spatial learning and cognitive map construction
Kotaro Mizuta, New York University Abu Dhabi

Sleep is bidirectionally modified by amyloid beta oligomers
Güliz Gürel Özcan, University College London

A novel mechanism of BDNF-mediated N2B-WRC interactions in driving synaptic plasticity
Belal Shohayeb, New York University Abu Dhabi

4:25 – 5:40 PM **Session IV**
Moderator: Priyam Narain, New York University Abu Dhabi

4:25 - 4:50 PM Synapse-enriched long non-coding RNAs in regulation of memory
Sourav Banerjee, National Brain Research Centre of India

4:50 - 5:15 PM Association between stress, circadian rhythms & sleep-wake cycle
Dipesh Chaudhury, New York University Abu Dhabi

5:15 - 5:40 PM Molecular genetics toolset for brain microcirculation (and beyond)
Hajime Hirase, University of Copenhagen

5:40 – 6:30 PM **Tour of Core Technology Platform by Dr. Lawrence Torre**

6:30 PM **Bus departure to Dinner**
Pick up outside Welcome Center

7:00 PM **Dinner**
Beirut Sur Mer
Mamsha, Saadiyat

9:00 PM **Bus back to hotel**
Pick up outside dropoff area

18th February, 2025 | DAY 2

6:30 – 8:30 AM **Breakfast**
Ramada Hotel Corniche
Buffet breakfast included for traveling guests only

8:30 AM **Bus departure to NYUAD campus**
Pick up outside hotel lobby

9:00 – 10:40 AM **Session V**
Moderator: Belal Shohayeb, New York University Abu Dhabi

9:00 - 9:25 AM Epigenetics mechanisms of memory storage
Ted Abel, University of Iowa

9:25 - 9:50 AM From molecular cognition to cognitive neuromedicine: the RDoC approach
Mohammad Nami, Canadian University Dubai

9:50 - 10:15 AM White matter plasticity following cataract surgery in congenitally blind patients
Bas Rokkers, NYUAD

10:15 - 10:40 AM Learning about reward and aversion in the hippocampus
Mazen Kheirbek, University of California San Francisco

10:40 - 11:00 AM **Coffee & Refreshments**
C2 East Forum

11:00 - 12:15 PM **Session VI**
Moderator: Ashutosh Rastogi, New York University Abu Dhabi

11:00 - 11:25 AM Hippocampal CA2 to CA1: A metaplastic switch for memory encoding
Saji Kumar Sreedharan, National University of Singapore

11:25 - 11:50 AM Regulation of neural epitranscriptome during neuronal differentiation and synaptogenesis
Ki-Jun Yoon, Korea Advanced Institute of Science and Technology

11:50 - 12:15 PM Neural correlates of visual temporal resolution
David Melcher, New York University Abu Dhabi

12:15 - 1:15 PM
Lunch
The Torch Club
D2

1:15 - 2:05 PM
Session VII
Moderator: Mohsin Mohammed, New York University Abu Dhabi

1:15 - 1:40 PM Understanding childhood hypomyelination with brain stem and spinal cord involvement and leg spasticity disease
Mohammed Shaker, Hamad bin Khalifa University

1:40 - 2:05 PM Synaptic Epitranscriptomics
Ohtan Wang, New York University Abu Dhabi

2:05 - 2:10 PM
Closing Remarks
Jennifer Raymond, Stanford University

2:15 PM Desert Safari
Pick up at welcome center, drop off at Ramada Hotel Corniche
