

BioMed@TAU Presents

I- NVU: the 1st Israeli Neurovascular forum symposium

October 31st, 2019

08:30- 16:30

The Porter School Building

SCIENTIFIC PROGRAM

08:30 Registration Opens

09:00 Opening remarks

09:10-10:30 Session I

NVU research with animal models

Chair: Sara Eyal

- 09:10 **Ivan Bassi** (Yaniv lab WIS) - Novel mechanisms underlying the formation of Blood-Brain Barrier in zebrafish
- 09:30 **Tamar Licht** (HUJI) - The NVU in adult hippocampal neurogenesis
- 09:50 **Pablo Blinder** (TAU) - Tools and tricks for studying neurovascular coupling in vivo
- 10:10 **Ayal Ben-Zvi** (HUJI) - New approaches to study Blood Brain Barriers

10:30-11:00 Coffee break

11:00-12:00 Session II

In vitro/ex vivo modeling of the NVU

Chair: Karina Yaniv

- 11:00 **Gad Vatine** (BGU) - From personalized BBB-Chip to pre-clinical BBB-targeted gene therapy
- 11:20 **Ofra Benny** (HUJI) - Drug delivery and ex vivo models for brain cancer
- 11:40 **Ben Maoz** (TAU) - A linked organ-on-chip model of the human neurovascular unit reveals the metabolic coupling of endothelial and neuronal cells

12:00-12:45 Lunch break

12:45-14:10 Session III

NVU in Disease A

Chair: Alon Monsonego

Keynote

- 12:45 **Maria Lehtinen**, (Harvard) - Regulation of brain development and homeostasis by the choroid plexus
- 13:30 **Ronit Satchi-Fainaro** (TAU) - Fighting melanoma brain metastasis in 3 dimensions
- 13:50 **Ofer Prager** (Friedman lab, BGU) - The role of blood-brain barrier dysfunction in the pathogenesis of brain disorders: from bench to bed and back.

14:10-14:30 Coffee break

14:30-16:10 Session IV

NVU in Disease B

Chair: Eli Keshet

- 14:30 **Omer Brener** (Monsonego lab, BGU) - The brain barriers in CNS inflammation
- 14:50 **Sara Eyal** (HUJI) - Breaking bad: the BBB in epilepsy
- 15:10 **Naomi Habib** (HUJI) - Uncovering cellular landscapes of the mouse and human brain
- 15:30 **Itzik Cooper** (Sheba) - From clinic to bench and back: Basic and translational BBB research at Sheba
- 15:50 **Yael Mardor** (Sheba) - Delayed contrast MRI for non-invasive depiction of subtle abnormalities in BBB function.

16:10 Concluding remarks

Register to attend