The 3rd JBC Student-Initiated Workshop

**Learning to See: Vision in Healthy, Visually Impaired and Visually Restored Populations**

Mishkanot Shaananim, Jerusalem, Israel

Sunday-Tuesday, 16-18, 2018

**Sunday, December 16**

9:00-9:30 - Gathering and light refreshments

9:30- 9:45 - Opening notes

**9:45-12:25 - Session 1: Visual development in normal and abnormal conditions: behavioral and theoretical issues**  
**Chair: Ehud Zohary**


10:20-10:55 - Pawan Sinha (MIT, USA), “Investigation of the causes of visual deficiencies following late sight onset”

10:55-11:15 Coffee break


11:50-12:25 - Ehud Zohary (HUJI, Israel), “Impairment of ‘vision for action’ functions in the newly sighted, following early-onset and prolonged visual deprivation”

12:25-14:00 Lunch and poster session

**14:00-16:00 - Session 2: Visual development: multimodal aspects**

**Chair: Bat Sheva Hadad**

14:00-14:35 - Brigitte Roder (Hamburg, Germany), “The privilege of the first arriving input in human brain development”

14:35-15:10 - Marc Ernst (Ulm, Germany), “Multimodal aspects affecting visual learning”

15:10-15:45 - Monica Gori (IIT, Italy), “Development of multisensory skills in children with and without visual impairment”

16:00-17:30 - Round-table discussion: Personal perspectives & insights from the Professors to the young scientists. Chairs: Diana Moroshek & Yael Backner
Monday, December 17

8:45-9:00 - Gathering and light refreshments

9:00-12:45 - Session 3: Physiological aspects: plasticity and stability of the visual pathways in vision-related diseases.

Chair: Netta Levin

9:00-9:35 - Brian Wandell (Stanford, USA), “Stability and plasticity of the visual pathways across the lifespan”

9:35-10:10 - Frans Cornelissen (University of Groningen, Netherlands), “Neurodegeneration and plasticity related to eye diseases”

10:10-10:45 Geoffrey Aguirre (Penn, USA), “The influence of the retinal ganglion cells in preservation of post-retinal structure and function in blindness”

10:45-11:15 Coffee break

11:15-11:50 - Holly Bridge (Nuffield, UK), “Using functional and diffusion MRI to understand the pathways underlying residual vision after damage to V1”

11:50-12:25 - Netta Levin (HMC, HUJI, Israel), “Anatomical and functional changes in the visual system following damage”

12:25-13:00 - Uri Polat (BIU, Israel), “Perceptual learning induces improvement of visual functions in adult normal and ambliopic patients”

13:00-14:15 Lunch

14:15-16:00 - Session 4: Prosthetic implants and visual restoration therapy: Key Problems, and future promise.

Chair: Eyal Banin

14:15-14:50 - Yossi Mandel (BIU, Israel), “Restoration of sight with retinal prostheses”


15:25-15:45 Coffee break

15:45-16:20 – Christopher Pack (McGill, Canada), "Perceptual plasticity in monkeys and humans: Implications for vision restoration therapy?"

16:20- 16:55 - Concetta Morrone (Piza, Italy), “Plasticity of visual cortex in typical adults and in RP patients with prosthetic implants (ARGUS II)”