Invitation

TEL AVIV UNIVERSITY
IS PLEASED TO INVITE YOU TO THE

ANNUAL MEETING OF THE SIERATZKI INSTITUTE FOR ADVANCES IN NEUROSCIENCE

WEDNESDAY, MAY 21, 2025

12:15 PM –1:45 PM
(LIGHT REFRESHMENTS WILL BE SERVED STARTING AT 12:00PM)

MAX WEBB FAMILY SCHOOL OF LANGUAGES BUILDING, ROOM 01
TEL AVIV UNIVERSITY CAMPUS, RAMAT AVIV

Gray Faculty of Medical & Health Sciences
Tel Aviv University

Parking is available on campus upon presentation of this invitation

Tel Aviv University
is pleased to invite you to the

Annual Meeting of the
Sieratzki Institute for Advances in Neuroscience

Wednesday, May 21, 2025 at 12:15–13:45

Room 01, Webb School of Languages Building, Tel Aviv University Campus, Ramat Aviv

Program

Gray Faculty of Medical & Health Sciences
Tel Aviv University
הפקולטה למדעי הרפואה והבריאות ע"ש גרי
אוניברסיטת תל אביב

12:00 **Light refreshments**

12:15–12:25 **Welcome:**

Prof. Karen Avraham, Dean of the Faculty of Medical and Health Sciences
Dr. Harry Sieratzki, Founder of the Institute and TAU Governor
Prof. Inna Slutsky, Head of the Institute

12:25–12:45 **Sieratzki Scholarship Recipients Award Ceremony**

Prof. Inna Slutsky and Dr. Harry Sieratzki

2024	2025
Adva Shoham	Karni Lev Bar-Or
Guy Gurevitch Nathan	Omer Ben Barak-Dror
David Mandil	Anand Ganapathy Subramaniam

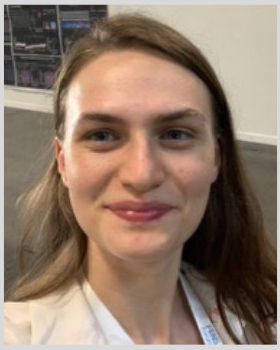
12:45–13:15 **2025 Sieratzki Prize Laureate Lecture:**

Dr. Inbal Ben-Ami Bartal, School of Psychobiology
"The Evolutionary Roots of Empathy and Prosocial Behavior"

13:15–13:45 **2025 Sieratzki Prize Laureate Lecture:**

Dr. Arseny Finkelstein, School of Medical and Health Sciences
"How Cortical Circuits Talk: Neural Dynamics Underlying Cognition"

2025 Sieratzki Scholarship Awardees



Karni Lev Bar-Or is a PhD candidate in the Faculty of Medical and Health Sciences, conducting her research under the supervision of Prof. Inna Slutsky. She holds a BSc in Chemistry and Biology, and an MSc in Neuroscience studying the interplay between homeostasis and memory. Her research focuses on the molecular and cellular mechanisms of positive and negative emotional memories. The study will aim to elucidate the distinct roles of excitatory and inhibitory neurons at the cellular level and to investigate the involvement of mitochondrial calcium in stabilization of emotional memories at the molecular level. The outcomes of the research are expected to provide deeper insight into neural computation and plasticity that underpin memory processes.

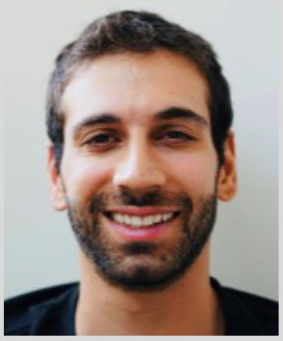
Omer Ben Barak-Dror is a PhD candidate at the Faculty of Medical and Health Sciences, conducting her research under the supervision of Prof. Yuval Nir. She holds a dual BSc in Biomedical Engineering and Biology with an emphasis on Neuroscience, as well as an MSc in Neuroscience. Her research focuses on developing a non-invasive, closed-eye pupillometry system using shortwave infrared (SWIR) imaging to monitor anesthesia depth and nociception. The project aims to evaluate the added value of pupil dynamics in clinical monitoring—beyond standard EEG and autonomic measures—for assessing anesthesia, pain, and nociception.

Anand Ganapathy Subramaniam is a PhD candidate conducting his research under the supervision of Prof. Eran Perlson. His work focuses on Amyotrophic Lateral Sclerosis (ALS), a neurodegenerative disease characterized by disruption of the neuromuscular junction (NMJ) and progressive motor neuron loss. Using an induced pluripotent stem cell (iPSC)-based approach, he models a functional humanized NMJ on a microfluidic chip platform to study NMJ-related signaling pathways involved in neurodegeneration. This model enables drug testing in patient-specific systems and holds potential to accelerate the discovery of novel therapeutic targets that could preserve NMJ integrity and improve neuronal function.

2024 Sieratzki Scholarship Awardees

Adva Shoham is a PhD candidate in the School of Psychological Sciences, performing her research in the Person Recognition Lab under the supervision of Prof. Galit Yovel, at Tel Aviv University. She holds a BSc in Computer Science and Psychology, as well as an MSc in Neuroscience. Her knowledge from these different disciplines converges in her PhD studies, where she employs computational methods, including language and visual deep neural networks, to investigate the contribution of semantic and visual information to human behavior and neural representations.

Guy Gurevitch Nathan is a PhD candidate at the Faculty of Medical and Health Sciences, conducting his research in the Sagol Brain Institute at the Tel Aviv Sourasky Medical Center, under the supervision of Prof. Talma Hendler. His research focuses on unveiling the neural mechanisms underlying self-neuromodulation of brain networks. Using previously collected datasets from healthy and patient populations, as well as prospective functional imaging data, Guy will attempt to map the brain network involved in the learning process and describe its dynamics through computational modeling.



David Mandil, an MD/PhD student in the Faculty of Medical and Health Sciences, conducting his research under the supervision of Prof. Inna Slutsky. David has a background in electrical engineering and comes to research after completing his pre-clinical studies in medicine. In his work, Mandil investigates the effects of a hibernation-like state on Alzheimer's disease in model mice, from the initial stage before the appearance of symptoms to the symptomatic stage of the disease. This unique condition may pave the way for a new approach to understanding, characterizing, and treating some of the symptoms and pathological processes observed in the disease.