Keynote lecture: The role of the lateral occipitotemporal cortex in action processing – evidence from human fMRI and MEG
Angelika Lingnau, University of Regensburg

Sessions lectures (alphabetical):

1. Bidirectional signal exchanges during joint attention interaction – a hyperscanning fMRI study
   Gadi Goelman1*, Rotem Dan1,2, Gabriela Stößel3, Heike Tost4, Andreas Meyer-Lindenberg4, Edda Bilek4
   1Department of Neurology, Hadassah Hebrew University Medical Center, 2Edmond and Lily Safra Center for Brain Sciences, the Hebrew University of Jerusalem, Jerusalem, Israel; 3Department of Clinical Psychology, 4Department of Psychiatry and Psychotherapy, Central Institute of Mental Health, Medical Faculty Mannheim, University of Heidelberg, Mannheim, Germany.

2. Body Representations in the Blind Brain
   Or Yizhar*, Amir Amedi
   The Hebrew University of Jerusalem

3. Building an Empathic Brain
   Yoni Levy1*, Avi Goldstein2, Ruth Feldman1
   1Interdisciplinary Center Herzliya; 2Bar Ilan University

4. Computerized radiological longitudinal evaluation of brain tumors after stereotactic radiosurgery
   Ilia Marek1, Leo Joskowicz1*, Ruth Eliahou1, Iddo Paldor2, Yigal Shoshan3
   1School of Computer Science and Engineering, The Hebrew University of Jerusalem, Israel; 2Dept of Neurosurgery, Hadassah Hebrew University Medical Center, Jerusalem, Israel; 3Dept of Neurosurgery, Hadassah Medical Center, Jerusalem, Israel
5. **Deep TMS over the mPFC and ACC alters brain connectivity and reduces relapse to alcohol use**
   Maayan Harel1*, Noam Barnea-ygael1, Hadar Shalev2, Itay Besser2, Moti Salti1,2, Robin Kampe3, Markus Heilig3, Abraham Zangen1
   1Ben-Gurion University of the Negev, Be’er Sheva, Israel; 2Soroka Medical Center, Be’er Sheva, Israel; 3Linköping University Center for Social and Affective Neuroscience (CSAN), Linköping, Sweden.

6. **Default mode network dynamics predict sequences of cognitive states**
   Talia Brandman1*, Rafael Malach1, Erez Simony1,2
   1Department of Neurobiology, Weizmann Institute of Science; 2Faculty of Engineering, Holon Institute of Technology.

7. **Disability or Disease: Connectivity Pattern Changes in the Visual Network After Optic Nerve Damage**
   Yael Backner1*, Friedemann Paul2,3, Netta Levin1
   1The fMRI Unit, Department of Neurology, Hadassah-Hebrew University Medical Centre; 2NeuroCure Clinical Research Center, Charité-Universitätsmedizin Berlin, Berlin, Germany; 3Experimental and Clinical Research Center, Max Delbrueck Center for Molecular Medicine and Charité-Universitätsmedizin Berlin, Berlin, Germany.

8. **Disrupted network topology in premenstrual dysphoric disorder is related to childhood maltreatment**
   Rotem Dan1,2, Inbal Reuveni3, Laura Canetti3,4, Marta Weinstock5, Ronen Segman3, Gadi Goelman2, Omer Bonne3
   1Edmond and Lily Safra Center for Brain Sciences (ELSC), The Hebrew University of Jerusalem, Jerusalem, Israel; 2Department of Neurology, Hadassah Hebrew University Medical Center, Jerusalem, Israel; 3Department of Psychiatry, Hadassah Hebrew University Medical Center, Jerusalem, Israel; 4Department of Psychology, The Hebrew University of Jerusalem, Jerusalem, Israel; 5Institute of drug research, The Hebrew University of Jerusalem, Jerusalem, Israel.

9. **Dissociable neural mechanisms of opening vs. closing the gate to working memory**
   Gal Nir-Cohen1,3*, Yoav Kessler2,3, Tobias Egner4
   1Department of Cognitive and Brain Sciences, Ben-Gurion University of the Negev; 2Department of Psychology, Ben-Gurion University of the Negev, Beer-Sheva, Israel; 3The Zlotowski Center for Neuroscience, Ben-Gurion University of the Negev, Beer-Sheva, Israel; 4Center for Cognitive Neuroscience, Department of Psychology and Neuroscience, Duke University.

10. **Dissociable neural mechanisms of opening vs. closing the gate to working memory**
    Gregory Peters-Founshtein1*, Tahel Naveh1, Liran Domachevsky2, Amos Korczyn3, David Groshar2, Shahar Arzy1
11. Face-Selective Neurons in the Vicinity of the Human Fusiform Face Area
Vadim Axelrod1*, Camille Rozier2, Tal Seidel Malkinson2, Lionel Naccache2,3
1Bar Ilan University; 2Institut du Cerveau et de la Moelle Épinière ICM, Paris, France; 3AP-HP, Groupe hospitalier Pitíé-Salpêtrière, Paris, France.

12. Hippocampal subfields maturation and the development of episodic memory in children
Noa Ofen*
Psychology and Life-Span Cognitive Neuroscience Program, Wayne State University, Detroit, MI, USA; Neurobiology and Life Sciences Core Facilities, Weizmann Institute of Science, Israel.

13. Impaired detection of erroneous arithmetic equations in adolescents with prenatal alcohol exposure: An EEG study
Mattan S. Ben-Shachar, Andrea Berger*
Department of Psychology, Ben Gurion University, Beer Sheva, Israel.

14. In-lab pre-registration: time-locking of study plans and hypotheses without preliminary review
Matan Mazor1,2, Noam Mazor3, Roy Mukamel1*
1School of Psychological Sciences and Sagol School of Neuroscience, Tel Aviv University, Tel Aviv, Israel; 2Institute of Neurology, University College London, London, UK; 3Blavatnik School of Computer Science, Tel Aviv University, Tel Aviv, Israel.

15. Modeling conduction delays in the corpus callosum using MRI-measured g-ratio
Shai Berman*, Shir Filo, Aviv A. Mezer
Edmond and Lily Safra center for Brain Sciences, at the Hebrew University of Jerusalem, Jerusalem, Israel.

Shir Filo*, Oshrat Shtangel, Aviv A Mezer
The Edmond and Lily Safra Center for Brain Sciences, at the Hebrew University of Jerusalem, Jerusalem, Israel

17. Perturbation training for rehabilitation of dynamic balance in acquired brain injury victims
Joubran Katherin1,2*, Bar-Haim Simona3, Shmuelof Lior1
1Brain and Cognitive Sciences, Zlotowski Center for Neuroscience, Ben-Gurion University, of the Negev, Israel; 2Reuth Rehabilitation Hospital, Tel-aviv, Israel; 3Physical Therapy Department at Ben Gurion University of the Negev, Israel.
18. Predictive relations between maternal responsiveness, infant neural responses and infant social behavior over the first year of life
Tahli Frenkel1, Sophie Rousseau1*, Linda Bowman2
1Ziama Arkin Infancy Institute, Baruch Ivcher School of Psychology, Interdisciplinary Center, Herzliya; 2Department of Psychology and Center for Mind and Brain University of California, Davis.

19. Screen Brains: The Relationship between Executive Functions Abilities and Screen Exposure in Children
Tzipi Horowitz-Kraus*
The Educational Neuroimaging Center, Faculty of Education in Sciences and Technology, Faculty of Biomedical Engineering, Technion Israeli Institute of Technology, Haifa, Israel; Reading and Literacy Discovery Center, Cincinnati Children’s Hospital Medical Center, Cincinnati, Ohio USA;

20. The development of a Hebrew reading brain: The neural changes underlying reading acquisition with missing vowels and abundance of roots
Tali Bitan1*, Yael Weiss2, Tammar Truzman3, Bechor Barouch1, Upasana Nathaniel1 Tami Katzir4
1Psychology Dept., IIPDM, University of Haifa, Israel; 2Psychology Dept. University of Texas at Austin, Austin, TX, US; 3Dept. of Communication Sciences and Disorders, University of Haifa, Israel; 4Department of Learning Disabilities, The E.J. Safra Brain Research center, University of Haifa, Israel.

21. The power of being first: Decoding fMRI signatures of recalling the first item
Irit Shapira-Lichter1*, Vered Bezalel2, Gilad Poker3, Noga Oren4, Talma Hendler2,3, Itzhak Fried3,4, Antony Wagner5
1Functional MRI Center, The Cognitive Neurology Clinic and the Neurology Department, Beilinson hospital, Rabin Medical Center, Israel; 2Center for Brain Functions, Wohl Institute for Advanced Imaging, Tel-Aviv Sourasky Medical Center, Tel-Aviv, Israel; 3Sackler Faculty of Medicine, Tel-Aviv University, Tel-Aviv 69978, Israel; 4Department of Neurosurgery, Tel Aviv Sourasky Medical Center, Tel-Aviv, Israel & Department of Neurosurgery, David Geffen School of Medicine and Semel Institute for Neuroscience, University of California at Los Angeles (UCLA), Los Angeles, CA, USA; 5Department of Psychology and Neurosciences Program, Stanford University, Stanford, CA, USA.

22. The relationship between neural variability and neural oscillations
Edan Daniel1,2,3,4, ‡, Thomas Meindertsmo4,5,6, ‡, Ayelet Arazi1,2,3, Tobias H. Donner4,5,6, Ilan Dinstein1,2,3
1Department of brain and cognitive science, Ben Gurion University of the Negev, Beer-Sheva, Israel; 2Department of psychology, Ben Gurion University of the Negev, Beer-Sheva, Israel; 3Zlotowski center for neuroscience, Ben Gurion University of the Negev,
23. The representation of composite stimuli in category-selective visual cortex
Libi Kliger*, Galit Yovel
Tel Aviv University, Israel.

24. Tractography delineation of the vertical occipital fasciculus using quantitative T1 mapping
Roey Schurr*, Aviv A. Mezer
Edmond & Lily Safra Center for Brain Sciences, The Hebrew University of Jerusalem, Israel.

25. Traumatic Brain Injury Severity in a Network Perspective: A Diffusion MRI Based Connectome Study
Reut Raizman1,2*, Ido Tavor2,3, Anat Biegon4, Sagi Harnolf5,6, Chen Hoffmann1,2, Galia Tsarfaty1,2, Eyal Fruchter6, Lucian Tatsa-Laur5, Mark Weiser2,7, Abigail Livny1,2,8
1Division of Diagnostic Imaging, Sheba Medical Center, Tel-Hashomer, Israel; 2Sackler Faculty of Medicine, Tel-Aviv University, Tel-Aviv, Israel; 3Sagol School of neuroscience, Tel-Aviv University, Tel-Aviv, Israel; 4Department of Radiology and Neurology, Stony Brook University School of Medicine, New York, USA; 5Department of Neurosurgery, Rabin Medical Center, Belinson, Israel; 6Department of Mental Health, Israel Defense Forces, Medical Corps, Tel Hashomer, Israel; 7Department of Psychiatry, Sheba Medical Center, Tel Hashomer, Israel; 8The Joseph Sagol Neuroscience Center, Sheba Medical Center, Tel Hashomer, Israel.

‡ = equal contribution  * = Speaker