The 31st ISFN Annual Meeting

12-14 January, 2025

Dan Hotel | Queen Of Sheba Hotel, Eilat

Israel Society for Neuroscience
עמותה ישראלית למדעי המוח

KALEIDOSCOPE
Conferences · Events · Exhibitions

Sunday, January 12th 2025

11:00-13:00 Welcome, Check in (Dan Hotel | Queen Of Sheba Hotel)

13:00-14:00 *Lunch (Dan hotel, 2nd floor)*

14:00-15:15 **Opening, Plenary Lecture 1 - Hagai Bergman**
The Basal Ganglia's Fascinating Voyage Through the Landscape of Consciousness (Dan hotel, 0 floor)

15:30-17:30

A1 - Tarshish B Hall	A2 - Coral Hall	A3 - Tarshish A Hall	A4 - Bbh B Hall	A5 - Bbh A Hall	A6 - Fiesta Hall
Orit Shefi	**Rita Schmidt, Edna Furman-Haran**	**Illana Gozes, Haitham Amal**	**Chaya Kalcheim**	**Arseny Finkelstein, Alon Rubin**	**Ofer Yizhar**
Neuromechanics and Neuroengineering	**Functional differences between individuals - what can we learn from long and short term signal variations in the human brain**	**Psychiatric disorders: from molecular mechanisms to drug targets**	**Sensory systems: from development to function**	**Using large cellular populations to reveal the neuronal code**	**Beyond "adult male mice": circuits and behavior throughout the lifespan**
Session Speakers - Shahar Alon, Matan Mussel, Adir Yarmus & Uri Nevo, Or Shahar,Tomer Kagan, Oz Mualem	**Session Speakers -** Aviv Mezer, Tal Geffen, Rita Schmidt, Ido Tavor, Gerry Leisman, Daniel Reznik	**Session Speakers -** Hermona Soreq, Illana Gozes, Hanoch Khaphzan, Shashank Ojha	**Session Speakers -** Chaya Kalcheim, Avihu Klar, Alex Binshtok, Ilan Lampl, Galit Shohat-Ophir	**Session Speakers -** Yael Bitterman, Noga Mudrik, Lilach Avitan, Alon Rubin, Arseny Finkelstein, Odeya Marmor	**Session Speakers -** Dana Rubi Levy, Daniel Zelmanoff, Shay Stern, Ofer Yizhar, Benne Praegel, Anat Kahan
Shahar Alon Super-Resolved Interrogation of Molecules within Thick Brain Tissues Using Expansion Sequencing	**Aviv Mezer** Substantia nigra and putamen asymmetries explain motor dysfunction in Parkinson's disease	**Hermona Soreq** Which processes control novel cholinergic-targeting micrornas integrated into the primate genome?	**Chaya Kalcheim** Regulation of dynamic cell fate transitions during spinal cord development	**Yael Bitterman** The distributed code of goal directed behavior	**Dana Rubi Levy** Tracing life's arc through behavior

15:30-17:30	A1 - Tarshish B Hall	A2 - Coral Hall	A3 - Tarshish A Hall	A4 - Bbh B Hall	A5 - Bbh A Hall	A6 - Fiesta Hall
	Matan Mussel On spikes and sound in lipid membranes	**Tal Geffen** Functional connectivity gradients and thought-patterns in schizophrenia	**Illana Gozes** Adnp/nap (davunetide) protection in brain diseases is sex-dependent	**Avihu Klar** Stepping, flying and swimming - evolution of patterned locomotion in tetrapods	**Noga Mudrik** Decomposed linear dynamical systems (dlds) for studying neural dynamics within & between brain areas	**Daniel Zelmanoff** Oxytocin signaling regulates maternally directed behavior during early life
	Adir Yarmus & Uri Nevo The Mechanics of Action Potentials: Studying the Kinetics and the Cytoskeletal Origins	**Rita Schmidt** Increasing sensitivity in fMRI to study individual differences - advantages of high field human MRI	**Hanoch Khaphzan** The role of mitochondrial dysfunction in the early brain development of angelman syndrome	**Alex Binshtok** Molecular and structural plasticity of nociceptive peripheral terminals underlying pathological pain	**Lilach Avitan** Cracking the social code using whole-brain recording of the larval zebrafish	**Shay Stern** The dynamic structure of behavioral individuality across developmental timescales
	Or Shahar Cell-type-specific detection of newly synthesized proteins in neurons in vivo to study the interplay between neuronal activity and translation during seizures	**Ido Tavor** Relating Activity and Connectivity in the Learning Brain	**Shashank Ojha** A Crosstalk between nitric oxide and mTOR signaling pathway in autism spectrum disorder (ASD)	**Ilan Lampl** Detection and Neural Encoding of Whisker-generated Sounds in Mice	**Alon Rubin** Internal structure of neuronal codes for space in hippocampus and cortex	**Benne Praegel** Behavioral and neuronal signatures of adolescence in the mouse auditory cortex
	Tomer Kagan Developing a novel biosensor for the visualization of pten activity	**Gerry Leisman** Living the inverted "U": Connecting the ups and downs from fetus to grave in movement and cognition		**Galit Shohat-Ophir** A highly conserved A-to-I RNA editing event within the glutamate-gated chloride channel GluClα is necessary for olfactory-based behaviors in Drosophila	**Arseny Finkelstein** Multi-regional and local mechanisms of cortical communication during goal-directed behavior	**Anat Kahan** The afternoon role of the circadian VIP neurons in regulating the mammalian estrous cycle
	Oz Mualem Visualizing neuronal cytoskeleton in super resolution to analyze self-repair mechanisms	**Daniel Reznik** Dissociating Distinct Cortical Networks Associated with Subregions of the Human Medial Temporal Lobe			**Odeya Marmor** Brain wide network within and between naturally socializing mice	

17:30-18:00 *Coffee Brake & exhibition (Dan hotel, 0 floor)*

18:00-19:00 **Plenary Lecture 2 - György Buzsáki**
Credit assignment in the brain: mechanisms of memory selection and consolidation (Dan hotel, 0 floor)

19:00-20:30 *Dinner (According to your hotel)*

20:30-22:30 **Beer, wine and Poster Session A - All presenters stand by their posters** (Queen Of Sheba hotel)

Monday, January 13th, 2025

08:30–10:30

B1 – Tarshish B Hall	B2 – Coral Hall	B3 – Tarshish A Hall	B4 – Bbh B Hall	B5 – Bbh A Hall	B6 – Fiesta Hall
Abigail Livny-Ezer	**Benedetta Heimler**	**Dan Frenkel**	**Ben Engelhard**	**Tal Laviv**	**Oded Rechavi**
The use of Artificial Intelligence (AI) in medical neuroimaging, will it change practice?	**Cognitive-motor-affective interactions during naturalistic behaviors in virtual reality**	**Impairment in metabolic pathways in neurodegenerative disease**	**Circuit mechanisms of motor learning and control in animals and humans**	**Molecular mechanisms of synaptic plasticity in the developing and adult brain**	**“Cogito, ergo sum” – how perception shapes our physiology**
Session Speakers – Abigail Livny-Ezer, Dr. Yaara Erez, Firas Mawase, Maya Kadushin, Tzipi Horowitz-kraus, Sarah Stern	**Session Speakers –** Michal Ramot, Rony Hirschhorn, Ramit Ravona, Prof. Plotnik, Benedetta Heimler	**Session Speakers –** Francisco J.Quintana, Jens Pahnke, Ronit Pinkas-Kramarski, Dan Frenkel, Hagit Eldar Finkelman, Sapir Golan Shekhtman	**Session Speakers –** Hadas Benisty, Roy Mukamel, Ariel Tankus, Gilad Silberberg	**Session Speakers –** Shira Knafo, Ivo Spiegel, Sharbel Eid, Leore Heim, Maya Shelly	**Session Speakers –** Shamgar Ben-Eliyahu, Noam Sobel, Liron Rozenkrantz , Lior Laufer, Elham Taha
Abigail Livny-Ezer Diagnosis, outcome prediction and precision medicine in brain disorders using connectomics and ai	**Michal Ramot** Harnessing the full power of naturalistic paradigms for the study of human behavior	**Francisco J.Quintana** Regulation of the immune response in the CNS by astrocytes	**Hadas Benisty** M1 reorganization of layer 2-3 network dynamics underlying motor learning	**Shira Knafo** Exploring the Interplay of Hippocampal TACR3 and Systemic Testosterone in the Regulation of Anxiety	**Shamgar Ben-Eliyahu** Psycho-behavioral and pharmacological stress-management interventions in cancer patients improve pro-metastatic molecular tumor characteristics
Yaara Erez Augmenting multi-modality neuroimaging in patients with brain tumors using ECOG, fMRI and AI	**Rony Hirschhorn** Exploring Unconscious Processing with Immersive Virtual Reality	**Jens Pahnke** Abca transporters modulate essential metabolic pathways and protect against neurodegeneration	**Roy Mukamel** Linking actions to their sensory consequences in the human brain	**Ivo Spiegel** The genomic basis of behavioral state-dependent modulation of sensory processing and neural circuit	**Noam Sobel** The inspirational brain
Firas Mawase Leveraging Artificial Intelligence for Advanced Neural Prosthetics: Enhanced Detection of Dexterous	**Ramit Ravona** A new biomarker for apathy and depression in cognitive impairment based on physiological reactivity	**Ronit Pinkas-Kramarski** Impaired autophagy in apoE expressing cells	**Ariel Tankus** Speech features neural encoding in the thalamus of parkinson’s disease and essential tremor patients	**Sharbel Eid** Unraveling the Dynamics of MeCP2 in Neuronal Circuits: A Novel Approach Using 2pFLIM to Explore DNA Damage Response in Rett Syndrome	**Liron Rozenkrantz** How beliefs shape reality: from information processing to physical health
Maya Kadushin (from Ido Tavor’s lab) Predicting cognitive abilities from brain connectivity using artificial intelligence	**Meir Plotnik** More than meets the eyes – gait modulations due to gravity	**Dan Frenkel** The link between metabolic changes in gila cells to the development of neurodegenrative diseases	**Gilad Silberberg** Striatal Circuits Underlying Sensorimotor Functions	**Leore Heim** Channeling Mitochondrial Calcium for Homeostatic Regulation of Hippocampal Activity	**Lior Laufer** Organization of temporal patterns of behavior across a full developmental trajectory
Tzipi Horowitz-kraus Does AI provide new information or validate existing findings? Current and future directions in dyslexia	**Benedetta Heimler** Evaluating cognitive-motor interactions in Parkinson’s disease using a novel VR-based assessment	**Hagit Eldar Finkelman** Mitochondria repair in Huntington’s disease **Sapir Golan Shekhtman** Regional Fat is Related to Lower Cognitive Functioning and Brain Volumes in High AD-Risk Males		**Maya Shelly** he role of non-vesicular lipid transport at ER-PM contact sites in phosphoinositide signaling in dendrite development in early circuit establishment	**Elham Taha** Slow maturation of olfactory circuits underlying innate odor preference

10:30–11:00 *Coffee Brake (Dan hotel, 0 floor)*

11:00–13:00

C1 – Tarshish B Hall	C2 – Coral Hall	C3 – Tarshish A Hall	C4 – Bbh B Hall	C5 – Bbh A Hall	C6 – Fiesta Hall
Tawfeeq Shekh-Ahmad	**Anat Arazi, Yoni Kupchik**	**Tal Burstyn-Cohen**	**Boaz Barak**	**Gali Umschweif**	**Bruce Hope**
Recent Advances in Gene Therapy for Neurological Disorders	**10:45–13:45 Eilat student's panel – 100 students**	**Cellular interactions guiding neural development and function**	**Myelin and oligodendrocytes dysfunction in neuropathology**	**cellular and molecular regulation of stress-induced behavior**	**Molecular, cellular, and circuit mechanisms of drug-related learning**
Session Speakers – Tawfeeq Shekh-Ahmad, Moran Rubinstein, Mustafa Obeid, Rami Aqeilan	**Session Speakers –** Anat Arazi, Yoni Kupchik Nimrod Brand	**Session Speakers –** Shahar Kasirer, Orit Shefi, Gil Levkowitz, Roberta Fresia, Dalit Sela-Donenfeld	**Session Speakers –** Inbar Fischer, Tal Iram, Elior Peles, Tamir Ben Hur	**Session Speakers –** Gali Umschweif-Nevo, Gal Richtel-Levin, Dorit Farfara-Cohen, Yair Shemesh, Alaa saleh	**Session Speakers –** Itay Shalom, Bruce Hope, Rami Yaka, Segev Barak, Yoni Kupchik
Tawfeeq Shekh-Ahmad CNS-targeted Antioxidant Gene Therapy for Treating Epilepsy		**Shahar Kasirer** Mechanics of hair cell regeneration in the inner ear	**Inbar Fischer** White matter abnormalities in a mouse model for autism with a human-based mutation in shank3 gene	**Gali Umschweif-Nevo** Neurensin-2: a novel cell-type-specific stress-responsive protein	**Itay Shalom** Probing the circuit underlying cocaine-induced stereotypies with a novel behavior analysis platform
Moran Rubinstein Dravet syndrome mouse models for novel gene therapy development		**Orit Shefi** Neuronal interactions with nano-based platforms for directing neuronal growth engineering	**Tal Iram** Oligodendrocyte aging and rejuvenation	**Gal Richter Levin** The dorsal dentate gyrus – a surprising player in stress vulnerability and resilience	**Bruce Hope** Cell types and unique transcriptomic alterations of neuronal ensembles activated by cocaine-induced
Mustafa Obeid Neuron-Specific AAV-Mediated WWOX Gene Therapy Rescues Mortality and Seizure Phenotypes in WOREE Syndrome Models		**Gil Levkowitz** Neural plate progenitors give rise to both anterior and posterior pituitary cells	**Elior Peles** Differential subcellular distribution of SynCAM/ Cadm proteins in neurons guides myelin targeting	**Dorit Farfara-Cohen** Serotonergic regulation of peripheral immune cell recruitment to the brain	**Rami Yaka** Role of the translational mechinary in cocaine-induced behaviours
Rami Aqeilan Epilepsy in a dish: Using brain organoids for studying WWOX-related neurological disorders and gene therapy		**Roberta Fresia** Protein s (pros1) regulates microglial development and function	**Tamir Ben Hur** The journey to cell therapy for demyelinating diseases	**Yair Shemesh** A paradigm shift in translational psychiatry through rodent neuroethology	**Segev Barak** Long-term alcohol consumption enhances accumbal myelination and impairs neural connectivity
		Dalit Sela-Donenfeld Hindbrain boundaries-niches of neural progenitor/ stem cells regulated by their extracellular matrix		**Alaa saleh** Biophysical mechanism underlying epigenetically inherited stressful behavior	**Yoni Kupchik** Synaptic plasticity alterations in ventral pallidal circuitry after abstinence from cocaine

13:00–14:00 *Lunch (Dan hotel, 2nd floor)*

14:00–15:00 **Plenary Lecture 3 – Chaya Kalcheim**
Regulation of patterning and cell fate decisions during neural development (Dan hotel, 0 floor)

15:30–17:30	D1 – Tarshish B Hall	D2 – Coral Hall	D3 – Tarshish A Hall	D4 – Bbh B Hall	D5 – Bbh A Hall	D6 – Fiesta Hall
	Hanna Keren	**Omer Revah**	**Pablo Blinder**	**Yuval Nir**	**Ramon Birnbaum**	**Haim Sompolinsky**
	Virtual environments for the study of human behavior and perception	**Human brain organoids in neurodevelopment and disease**	**New insights into Brain Barriers development and function**	**Sleep: unconscious restoration, from molecules to behavior**	**Neuronal transcription regulation**	**Neuroscience of Knowledge**
	Session Speakers – Tom Schonberg, Elana Zion-Golumbic, Roy Salomon, Hanna Keren, Adi Lustig	**Session Speakers –** Orly Reiner, Abed Mansour, Omer Revah, Miri Danan Gotthold, Daniel Halperin	**Session Speakers –** Ayal Ben-Zvi, Tali Ilovitsh, Preethi Rajamannar, Nir Cafri, Meshi Zorsky	**Session Speakers –** Gali Krayden, Refaela Atsmon, Halen Baker, Yuval Nir, Anat Arzi	**Session Speakers –** Eran Meshorer, Evan Eliot, Dan Bracha, Igor Ulitsky, Ramon Birnbaum	**Session Speakers –** Haim Sompolinsky, Galit Yovel, Ariel Goldstein, Winrich Freiwald, Mathew Diamond
	Tom Schonberg XR as a tool to densely study human behavior	**Orly Reiner** MorphoNeuroChip: Unveiling Brain Malformations' Secrets at the Molecular Level	**Ayal Ben-Zvi** Unique features of the arterial Blood-Brain Barrier	**Gali Krayden** Sleep and repair of DNA breaks across evolution	**Eran Meshorer** Pluripotent stem cell models reveal altered genetic and epigenetic pathways in Huntington's disease	**Haim Sompolinsky** Geometry of Neural Representations: From Vision to Language
	Elana Zion-Golumbic The Neural Underpinnings of Attention and Distraction in (virtual) Realistic Environments	**Abed Mansour** A novel neuroimmune human brain organoid model to study microglia in health and disease	**Tali Ilovitsh** Nanobubble-mediated BBB opening as a platform for enhanced delivery to brain capillaries	**Refaela Atsmon** Homeostatic regulation of CA1 firing rate set points and contextual memory retrieval in mice	**Evan Eliot** Forebrain neuronal Smc3 regulates appetite, weight, and metabolic heath	**Galit Yovel** Disentangling the Contributions of Vision and Language in Perception and Memory
	Roy Salomon Keep it Real- Using virtual reality to understand real human behaviors	**Omer Revah** Using stem cells to build a model of the human cortex in vivo	**Preethi Rajamannar** Oxytocin may regulate its own uptake via blood flow dynamics	**Halen Baker** Sleep and sedation in basal ganglia in health and Parkinson's disease	**Dan Bracha** Probing and Reprogramming Transcriptionally Active Liquid Bodies in Living Cells	**Ariel Goldstein** Deep Modeling of Cognition
	Hanna Keren Studying mood dynamics in a rich virtual context	**Miri Danan Gotthold** Early neurodevelopment at the single-cell resolution	**Nir Cafri** Blood Brain Barrier Dysfunction in Drug Resistance Epilepsy: A Multi-Center Feasibility Study	**Yuval Nir** Sleep and memory consolidation in health and disease	**Igor Ulitsky** Regulation of neuronal chromatin environments by long noncoding RNAs	**Winrich Freiwald** Neuroscience of Knowledge: from Face Perception to Person
	Adi Lustig Heart rate related measures response to visual-physical incongruent walking conditions	**Daniel Halperin** Mechanomorphogenesis governed by guidance receptor Plexin-B2 is critical for gating neuronal differentiation and cytoarchitecture of neuroepithelium	**Meshi Zorsky** Exosomes from neural cells enhance barrier functions in iPSC-based model of the human BBB	**Anat Arzi** Unconsciousness Dynamics: From Sleep to Disorders of Consciousness	**Ramon Birnbaum** Deciphering gene regulatory elements during inhibitory interneuron differentiation using deep neural	**Mathew Diamond** Neuronal mechanisms underlying a single (not just the average) decision
		Noemi Bronstein **Novel Biodetectors for Live Cell Imaging** Sponsored by: alomone labs				
17:30–18:00	*Coffee break (Dan hotel, 0 floor)*					

18:00-19:00	**Plenary Lecture 4** - Haim Sompolinsky From Brain to Mind: Emergent Properties of Neuronal Circuits (Dan hotel, 0 floor)
19:00-20:00	**ISFN General Assembly Business Meeting - Regular and emeritus members only** (Tarshish A)
19:00-20:30	*Dinner (According to your hotel)*
20:30-22:30	**Poster Session B** (Queen Of Sheba hotel)
22:30-24:30	**Beers, wine & DJ party** (Fiesta Hall, Dan hotel)

Tuesday, January 14th, 2025

08:30-10:30	E1 - Tarshish B Hall	E2 - Coral Hall	E3 - Tarshish A Hall	E4 - Bbh B Hall	E5 - Bbh A Hall	E6 - Fiesta Hall
		Dana Cohen	**Gadi Gilam, Alexander Binshtok**	**Ehud Cohen**	**Oren Shriki**	**Dori Derdikman, Yaniv Ziv**
		Rethink about the role of the external globus pallidus in basal ganglia functions	**Modulating pain from the terminal to the brain - Basic and translational insights into mechanisms of pathological pain**	**Cellular proteostasis mechanisms in health and disease**	**Artificial neural networks as models of biological sensory processing**	**Learning and Memory: From mice to humans**
		Session Speakers - Hagai Bergman, Dana Cohen, Joshua A. Goldberg	**Session Speakers -** Avraham Yaron, Ben Title, Irit Weissman-Fogel, Gadi Gilam	**Session Speakers -** Avraham Ashkenazi, Adrian Israelson, Ehud Cohen, Ronit Ilouz, Reut Bruck-Haimson	**Session Speakers -** Oren Shriki,Tal Golan, Galit Yovel, Omri Barak, Jonathan Kadmon	**Session Speakers -** Itzhak Fried, Dori Derdikman, David Omer, Ayal Lavi, Erez Simony
		Hagai Bergman Discharge features of the non-human primate external globus pallidus during sleep	**Avraham Yaron** The kinesin family member 2a (kif2a) gates nociception	**Avraham Ashkenazi** Regulators of α-synuclein secretion and spread in Parkinson's disease	**Oren Shriki** Sensory recurrent networks: optimal information representation, hallucinations, and synaesthesia	**Itzhak Fried** In Search of Engrams: Single neuron recordings and deep brain stimulation in the human temporal lobe
		Dana Cohen Multidimensional encoding in the rodent external globus pallidus	**Ben Title** The Guardians of Passage: Adaptive Changes in the Output from the First Nociceptive Neural Network	**Adrian Israelson** Targeting low levels of MIF expression as a potential therapeutic strategy for ALS	**Tal Golan** Disentangling representational geometries in neural network models of human perception	**Eran Stark** Short term memory in freely moving mice
		Joshua A. Goldberg Oscillatory correlations in the globus pallidus explained	**Irit Weissman-Fogel** Reinforcement of pain modulation- a mechanism based teratemtn for pain refielf in chronic pain	**Ehud Cohen** A Nucleolar Mechanism Suppresses Proteostasis across the Organism by the Modulation of Multiple Signaling Pathways	**Omri Barak** Aligned and oblique dynamics in recurrent neural networks	**Dori Derdikman** Active experience, not time, determines within day representational drift in dorsal CA1

08:30-10:30	E1 - Tarshish B Hall	E2 - Coral Hall	E3 - Tarshish A Hall	E4 - Bbh B Hall	E5 - Bbh A Hall	E6 - Fiesta Hall
			Gadi Gilam The Neural Bases of Emotion Regulation of Pain in Chronic Pain	**Ronit Ilouz** Mutation in Protein Kinase A (PRKAR1B) gene drives pathological mechanisms of Neurodegeneration **Reut Bruck-Haimson** UFMylation regulates proteostasis in C. elegans	**Jonathan Kadmon** Rethinking backpropagation: training large neural networks with low-dimensional error signals	**David Omer** The Naming of Nonhuman Primates, Hints about the Evolution of Human Language **Ayal Lavi** Causal role of insular cortex neuronal activity manifolds in appetitive and aversive learning **Erez Simony** The Movie After-Effect: Widespread Activity-Dependent Renormalization Revealed during Ecological Stimuli in the Human Cortex
10:30-11:00	*Coffee Brake (Dan hotel, 0 floor)*					
11:00-12:00	**Announcement of Prizes: The Sieratzki Prize for Advances in Neuroscience, Best mentor Prize, Poster Competition prize (Dan hotel, 0 floor)**					
12:15-14:15	**F1 - Tarshish B Hall**	**F2 - Coral Hall**	**F3 - Tarshish A Hall**	**F4 - Bbh B Hall**	**F5 - Bbh A Hall**	**F6 - Fiesta Hall**
	Gaddi Blumrosen	**Lior Mayo**	**Gilad Silberberg, Ilan Lampl**	**Michal Rivlin**	**Abed Mansour, Zeev Melamed**	**Yoav Livneh**
	Monitoring and Diagnostics of neurological disease and disorders at home environment settings	**Here and Back Again, A Neuroimmunology's Tale**	**Structure and function of interhemispheric communication**	**Coding principles in sensory and motor systems: breaking the rules**	**Stem-cells based technologies to study brain disorders**	**Brain-body interactions in the insular cortex**
	Session Speakers - Hadas Lewy, Jason Friedman, Inbal Maidan, Gaddi Blumrosen, Hila Gvirts, Joachim Beharn	**Session Speakers -** Lior Mayo, Eran Blacher, Alon Monsenero, Or Shemesh, Itay Zalayat	**Session Speakers -** Katayun Cohen-Kashi, Noa Rivlin, Michael Sokoletsky, Netanel Ofer, Elad Avidan	**Session Speakers -** Moshe Parnas, Rony Azouz, Mati Joshua, Inbal Shainer, Elyashiv Zangen, David Deutsch	**Session Speakers -** Shani Stern, Zeev Melamed, Gad Vatine, Eran Hornstein, Mahmood Ali, Ahd hamdan	**Session Speakers -** Sarah Stern, Yael Prilutski, Yoav Livneh, Stav Shtiglitz, Kobi Rosenblum, Asya Rolls
	Hadas Lewy Research and Development of digital parameters for functional and cognitive assessment at home	**Lior Mayo** Targeting CNS-infiltrating myeloid cells in neuroinflammation	**Katayun Cohen-Kashi** Behavioral states control binocular vision through input-specific mechanisms	**Moshe Parnas** Battle of the memories - how the brain prevents the co-formation of conflicting memories	**Shani Stern** Seeking Convergence and Divergence between Autism and Schizophrenia using genomic tools and iPSC patient derived neurons	**Sarah Stern** Insular cortex circuits mediating flexible feeding behaviors

12:15-14:15	F1 - Tarshish B Hall	F2 - Coral Hall	F3 - Tarshish A Hall	F4 - Bbh B Hall	F5 - Bbh A Hall	F6 - Fiesta Hall
	Jason Friedman Evaluating changes in dexterity in people with Parkinson's disease at home using an electric piano	**Eran Blacher** Mapping the immune response in the aging gut at the setting of stroke	**Noa Rivlin** Projections from the claustrum to the frontal cortex modulate performance and cortical representation of an attention demanding task	**Rony Azouz** Reliability and Stability of Tactile Perception in Rodents	**Zeev Melamed** Rescue of impaired axonal regeneration in ipsc-derived motor neurons affected by tdp-43 pathology	**Yael Prilutski** Interoceptive predictions during hunger and thirst in the insular cortex
	Inbal Maidan Parkinson disease severity evaluation from home based real-life facial video	**Alon Monsonego** A neuro-endocrine-immune perspective to age-related neurodegenerative disorders	**Michael Sokoletsky** Inherent coupling of perceptual decisions to motor actions in the mouse cortex	**Mati Joshua** High-Dimensional Encoding of Movement by Single Neurons in Basal Ganglia Output	**Gad Vatine** Modeling Neurological Disorders at the Blood Brain barrier (BBB)	**Yoav Livneh** Brain-body interactions: Sensations and predictions in the insular cortex
	Gaddi Blumrosen Behavioral Based Neurological condition assessment: roadmap, and feasibility with ADHD diagnosis from real-life video	**Or Shemesh** Herpes Simplex Virus-1 Proteins Drive Alzheimer's disease Pathologies in Humans	**Netanel Ofer** Branch-specific spike failures at distal axons in mouse cortex in vivo	**Inbal Shainer** Positional information drives distinct traits in transcriptomically identified neuronal types	**Eran Hornstein** Organellomics: AI-driven deep organellar phenotyping reveals novel ALS mechanisms in human neurons	**Stav Shtiglitz** Cortical interoceptive predictions for neural control of nutritional choice
	Hila Gvirts Automatic Alexithymia recognition from remote interviews with LLM models	**Itay Zalayat** Dissecting the effects of distinct VTA projections on peripheral immunity	**Elad Avidan** Strategies for transferring higher order information across hemispheres	**Elyashiv Zangen** Light-Responsive Neurons in the Medial Prefrontal Cortex Encode Light Intensity	**Mahmood Ali** HIKESHI-related Hypo-myelinating Leukodystrophy: a Brain-On-Chip model for pre-clinical testing of gene therapy	**Kobi Rosenblum** Intra-insula Circuit Mediates the Association between External and Internal Sensory Information
	Joachim Behar Sleep physiological biomarkers derived from continuous seamless monitoring sleep stages abnormalities at home			**David Deutsch** Mixed connectivity and local computations across a whole adult Drosophila brain	**Ahd hamdan** Immunocompetent Human Midbrain Organoids to Study Neuroinflammation in Parkinson's Disease	**Asya Rolls** Immunoception: immune representation in the brain

END OF ISFN 2025