The 31th 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

13:00-14:00 *Lunch*

14:00-15:15 **Opening, Plenary Lecture 1**

15:30-17:30

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

15:30-17:30	A1	A2	A3	A4	A5	A6
	Matan Mussel On spikes and sound in lipid membranes	**Avihu Klar** Stepping, flying and swimming – evolution of patterned locomotion in tetrapods	**Illana Gozes** Adnp/nap (davunetide) protection in brain diseases is sex-dependent	**Hadar Kolb** What can we learn from long and short-term signal variations in magnetic resonance imaging of patient	**Daniel Zelmanoff** Oxytocin signaling regulates maternally directed behavior during early life	**Noga Mudrik** Decomposed linear dynamical systems (dlds) for studying neural dynamics within & between brain areas
	Adir Yarmus The Mechanics of Action Potentials: Studying the Kinetics and the Cytoskeletal Origins	**Alex Binshtok** Molecular and structural plasticity of nociceptive peripheral terminals underlying pathological pain	**Hanokh Khaphzan** The role of mitochondrial dysfunction in the early brain development of angelman syndrome	**Tal Geffen** Functional connectivity gradients and thought-patterns in schizophrenia	**Shay Stern** The dynamic structure of behavioral individuality across developmental timescales	**Lilach Avitan** Cracking the social code using whole-brain recording of the larval zebrafish
		Ilan Lampl Isolated correlates of somatosensory perception in the mouse cortex	**Shashank Ojha** A Crosstalk between nitric oxide and mTOR signaling pathway in autism spectrum disorder (ASD)	**Rita Schmidt** Increasing sensitivity in fMRI to study individual differences – advantages of high field human MRI	**Benne Praegel** Behavioral and neuronal signatures of adolescence in the mouse auditory cortex	**Alon Rubin** Internal structure of neuronal codes for space in hippocampus and cortex
		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		**Ido Tavor** Relating Activity and Connectivity in the Learning Brain	**Anat Kahan** The afternoon role of the circadian VIP neurons in regulating the mammalian estrous cycle	**Arseny Finkelstein** Multi-regional and local mechanisms of cortical communication during goal-directed behavior
				Gerry Leisman Living the inverted "U": Connecting the ups and downs from fetus to grave in movement and cognition		**Odeya Marmor** Brain wide network within and between naturally socializing mice
				Daniel Reznik Dissociating Distinct Cortical Networks Associated with Subregions of the Human Medial Temporal Lobe		
17:30-18:00	*Coffee Brake & exhibition*					
18:00-19:00	**Plenary Lecture 2**					
19:00-20:30	*Dinner*					
20:30-22:30	Beer and **Poster Session A** – All presenters stand by their posters					

Monday, January 13th, 2025

08:30-10:03

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

10:30-11:00 Coffee Brake

11:00-13:00

C1	C2	C3	C4	C5	C6
Tawfeeq Shekh-Ahmad	**Boaz Barak**	**Tal Burstyn-Cohen**	**Bruce Hope**	**Gali Umschweif**	**Eilat Students session**
Recent Advances in Gene Therapy for Neurological Disorders	**Myelin and oligodendrocytes dysfunction in neuropathology**	**Cellular interactions guiding neural development and function developing nervous system**	**Molecular, cellular, and circuit mechanisms of drug-related learning**	**cellular and molecular regulation of stress-induced behavior**	**10:45-13:45 Eilat student's panel at queen of Sheba hotel**
Session Speakers - Tawfeeq Shekh-Ahmad, Moran Rubinstein, Rami Aqeilan, Daniel J. Steinberg	**Session Speakers -** Inbar Fischer, Tal Iram, Elior Peles, Michal Ben-Shachar, Boaz Barak	**Session Speakers -** David Shprinzak, Orit Shefi, Gil Levkowitz, Roberta Fresia, Dalit Sela-Donenfeld,	**Session Speakers -** Itay Shalom, Bruce Hope, Rami Yaka, Segev Barak, Yoni Kupchik	**Session Speakers -** Gali Umschweif-Nevo, Gal Richtel-Levin, Dorit Farfara-Cohen, Yair Shemesh, Alaa saleh	
Tawfeeq Shekh-Ahmad CNS-targeted Antioxidant Gene Therapy for Treating Epilepsy	**Inbar Fischer** Shank3 Mutation Impairs Glutamate Signaling and Myelination in ASD Mouse Model and Human iPSC-Derived OPCs	**Shahar Kasirer** Mechanics of hair cell regeneration in the inner ear	**Itay Shalom** Probing the circuit underlying cocaine-induced stereotypies with a novel behavior analysis platform	**Gali Umschweif-Nevo** Neurensin-2: a novel cell-type-specific stress-responsive protein	
Moran Rubinstein Dravet syndrome mouse models for novel gene therapy development	**Tal Iram** Young CSF restores oligodendrogenesis and memory in aged mice via Fgf17	**Orit Shefi** Neuronal interactions with nano-based platforms for directing neuronal growth engineering	**Bruce Hope** Cell types and unique transcriptomic alterations of neuronal ensembles activated by cocaine-induced	**Gal Richter Levin** The dorsal dentate gyrus - a surprising player in stress vulnerability and resilience	
Rami Aqeilan Neuron-Specific AAV-Mediated WWOX Gene Therapy Rescues Mortality and Seizure Phenotypes in WOREE Syndrome Models	**Elior Peles** Differential subcellular distribution of SynCAM/Cadm proteins in neurons guides myelin targeting	**Gil Levkowitz** Neural plate progenitors give rise to both anterior and posterior pituitary cells	**Rami Yaka** Role of the translational mechinary in cocaine-induced behaviours	**Dorit Farfara-Cohen** Serotonergic regulation of peripheral immune cell recruitment to the brain	
Daniel J. Steinberg Epilepsy in a dish: Using brain organoids for studying WWOX-related neurological disorders and gene therapy	**Michal Ben-Shachar** Long-range connections in the human brain and their contribution to cognition	**Roberta Fresia** Protein s (pros1) regulates microglial development and function	**Segev Barak** Long-term alcohol consumption enhances accumbal myelination and impairs neural connectivity	**Yair Shemesh**	
		Dalit Sela-Donenfeld Hindbrain boundaries-niches of neural progenitor/stem cells regulated by their extracellular matrix	**Yoni Kupchik** Synaptic plasticity alterations in ventral pallidal circuitry after abstinence from cocaine	**Alaa saleh** Biophysical mechanism underlying epigenetically inherited stressful behavior	

14:00–15:00	Plenary Lecture 3					
15:30–17:30	**D1**	**D2**	**D3**	**D4**	**D5**	**D6**
	Yuval Nir	**Haim Sompolinsky**	**Ramon Birnbaum**	**Pablo Blinder**	**Omer Revah**	**Hanna Keren**
	Sleep: unconscious restoration, from molecules to behavior	**Neuroscience of Knowledge**	**Neuronal transcription regulation**	**New insights into Brain Barriers development and function**	**Human brain organoids in neurodevelopment and disease**	**Virtual environments for the study of human behavior and perception**
	Session Speakers – Gali Krayden, Refaela Atsmon, Hagai Bergman, Yuval Nir, Anat Arzi	**Session Speakers –** Haim Sompolinsky, Edmond and Lily Safra, Galit Yovel, Ariel Goldstein, Winrich Freiwald, Mathew Diamond	**Session Speakers –** Eran Meshorer, Evan Eliot, Dan Bracha, Igor Ulitsky, Ramon Birnbaum	**Session Speakers –** Ayal Ben-Zvi, Tali Ilovitsh, Preethi Rajamannar, Nir Cafri, Meshi Zorsky	**Session Speakers –** Orly Reiner, Abed Mansour, Omer Revah, Miri Danan Gotthold, Gal Lazarus	**Session Speakers –** Tom Schonberg, Elana Zion-Golumbic, Roy Salomon, Hanna Keren, Adi Lustig
	Gali Krayden Sleep and repair of DNA breaks across evolution	**Haim Sompolinsky, Edmond and Lily Safra** Geometry of Neural Representations: From Vision to Language	**Eran Meshorer** Pluripotent stem cell models reveal altered genetic and epigenetic pathways in Huntington's disease	**Ayal Ben-Zvi** Unique features of the arterial Blood-Brain Barrier	**Orly Reiner** MorphoNeuroChip: Unveiling Brain Malformations' Secrets at the Molecular Level	**Tom Schonberg** XR as a tool to densely study human behavior
	Refaela Atsmon Homeostatic regulation of CA1 firing rate set points and contextual memory retrieval in mice	**Galit Yovel** Disentangling the Contributions of Vision and Language in Perception and Memory	**Evan Eliot** Forebrain neuronal Smc3 regulates appetite, weight, and metabolic heath	**Tali Ilovitsh** Nanobubble-mediated BBB opening as a platform for enhanced delivery to brain capillaries	**Abed Mansour** A novel neuroimmune human brain organoid model to study microglia in health and disease	**Elana Zion-Golumbic** The Neural Underpinnings of Attention and Distraction in (virtual) Realistic Environments
	Hagai Bergman Sleep and sedation in basal ganglia in health and Parkinson's disease	**Ariel Goldstein** Deep Modeling of Cognition	**Dan Bracha** Probing and Reprogramming Transcriptionally Active Liquid Bodies in Living Cells	**Preethi Rajamannar** Oxytocin may regulate its own uptake via blood flow dynamics	**Omer Revah** Using stem cells to build a model of the human cortex in vivo	**Roy Salomon** Keep it Real- Using virtual reality to understand real human behaviors
	Yuval Nir Sleep and memory consolidation in health and disease	**Winrich Freiwald** Neuroscience of Knowledge: from Face Perception to Person	**Igor Ulitsky** Regulation of neuronal chromatin environments by long noncoding RNAs	**Nir Cafri** Blood Brain Barrier Dysfunction in Drug Resistance Epilepsy: A Multi-Center Feasibility Study	**Miri Danan Gotthold** Early neurodevelopment at the single-cell resolution	**Hanna Keren** Studying mood dynamics in a rich virtual context
	Anat Arzi Unconsciousness Dynamics: From Sleep to Disorders of Consciousness	**Mathew Diamond** Neuronal mechanisms underlying a single (not just the average) decision	**Ramon Birnbaum** Deciphering gene regulatory elements during inhibitory interneuron differentiation using deep neural	**Meshi Zorsky** Exosomes from neural cells enhance barrier functions in iPSC-based model of the human BBB	**Gal Lazarus** Collaborating with Patient Advocacy Groups to Facilitate Drug Development for NDD	**Adi Lustig** Heart rate related measures response to visual-physical incongruent walking conditions
	Chaya Kalcheim Regulation of patterning and cell fate decisions during neural development					
17:30–18:00	*Coffee break*					

18:00-19:00	**Plenary Lecture 4**
19:00-19:30	**ISFN General Assembly Business Meeting - Regular and emeritus members only - better half an hour than zoom meeting**
19:00-20:30	*Dinner*
20:30-22:30	beers and **Poster Session B**
22:30-24:30	DJ party

Tuesday, January 14th, 2025

08:30-10:30	E1	E2	E3	E4	E5	E6
	Ehud Cohen	**Oren Shriki**	**Dori Derdikman, Yaniv Ziv**	**Gadi Gilam, Alexander Binshtok**		**Marc Deffains**
	Cellular proteostasis mechanisms in health and disease	**Artificial neural networks as models of biological sensory processing**	**Learning and Memory: From mice to humans**	**Modulating pain from the terminal to the brain - Basic and translational insights into mechanisms of pathological pain**		**Rethink about the role of the external globus pallidus in basal ganglia functions**
	Session Speakers - Avraham Ashkenazi, Simone Engelender, Adrian Israelson, Ehud Cohen, Ronit Ilouz	**Session Speakers -** Oren Shriki, Tal Golan, Galit Yovel, Omri Barak, Jonathan Kadmon	**Session Speakers -** Itzhak Fried, Dori Derdikman, Yaniv Ziv, Ayal Lavi, Erez Simony	**Session Speakers -** Avraham Yaron, Ben Title, Irit Weissman-Fogel, Gadi Gilam		**Session Speakers -** Thomas Boraud, Hagai Bergman, Shiran Katabi, Dana Cohen
	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**	**Avraham Yaron** The kinesin family member 2a (kif2a) gates nociception		**Thomas Boraud** Contribution of the non-human primate external globus pallidus in decision-making
	Simone Engelender A novel decoy peptide strategy to prevent α-synuclein proteotoxicty in Parkinson's disease and other α-synucleinopathies	**Tal Golan** Disentangling representational geometries in neural network models of human perception	**Eran Stark** Short term memory in freely moving mice	**Ben Title** The Guardians of Passage: Adaptive Changes in the Output from the First Nociceptive Neural Network		Student of **Hagai Bergman** Discharge features of the non-human primate external globus pallidus during sleep
	Adrian Israelson Targeting low levels of MIF expression as a potential therapeutic strategy for ALS	**Galit Yovel** What can deep learning tell us about human face recognition?	**Dori Derdikman** Active experience, not time, determines within day representational drift in dorsal CA1	**Irit Weissman-Fogel** Reinforcement of pain modulation- a mechanism based teratemtn for pain refielf in chronic pain		**Shiran Katabi** Dichotomous Activity and Function of the LFD and HFD neurons in the NHP GPe
	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	**Yaniv Ziv** Long-term dynamics of the entorhinal grid code	**Gadi Gilam** The Neural Bases of Emotion Regulation of Pain in Chronic Pain		**Dana Cohen** Multidimensional encoding in the rodent external globus pallidus

08:30-10:30	E1	E2	E3	E4	E5	E6
	Ronit Ilouz Mutation in Protein Kinase A (PRKAR1B) gene drives pathological mechanisms of Neurodegeneration	**Jonathan Kadmon** Rethinking backpro-pagation: training large neural networks with low-dimensional error signals	**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*					
11:00-13:00	**F1**	**F2**	**F3**	**F4**	**F5**	**F6**
	Lior Mayo	**Abed Mansour, Zeev Melamed**	**Yoav Livneh**	**Gilad Silberberg, Ilan Lampl**	**Gaddi Blumrosen**	**Michal Rivlin**
	Here and Back Again, A Neuroimmunology's Tale	**Stem-cells based technologies to study brain disorders**	**Brain-body interactions in the insular cortex**	**Structure and function of interhemispheric communication**	**Monitoring and Diagnostics of neurological disease and disorders at home environment settings**	**Coding principles in sensory and motor systems: breaking the rules**
	Session Speakers - Lior Mayo, Michal Schwartz, Eran Blacher, Alon Monsenero, Or Shemesh, Itay Zalayat	**Session Speakers -** Shani Stern, Zeev Melamed, Gad Vatine, Eran Hornstein, Mahmood Ali, Ahd hamdan	**Session Speakers -** Sarah Stern, Yael Prilutski, Yoav Livneh, Stav Shtiglitz, Kolatt Chandran Sailendrakumar, Kobi Rosenblum, Asya Rolls	**Session Speakers -** Katayun Cohen-Kashi, Noa Rivlin, Yael Oran, Netanel Ofer	**Session Speakers -** Hadas Lewy, Jason Friedman, Inbal Maidan, Gaddi Blumrosen, Hila Gvirts, Joachim Beharn	**Session Speakers -** Moshe Parnas, Rony Azouz, Mati Joshua, Inbal Shainer, Elyashiv Zangen, David Deutsch
	Lior Mayo	**Shani Stern** Seeking Convergence and Divergence between Autism and Schizophrenia using genomic tools and iPSC patient derived neurons	**Sarah Stern** Insular cortex circuits mediating dlexible feeding behaviors	**Katayun Cohen-Kashi** Behavioral states control binocular vision through input-specific mechanisms	**Hadas Lewy** Research and Development of digital parameters for functional and cognitive assessment at home	**Moshe Parnas** Battle of the memories - how the brain prevents the co-formation of conflicting memories.
	Michal Schwartz Why does the immune system fall short in dementia and could be restored by immunotherapy?	**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	**Noa Rivlin** Behavioral Control by Claustro-Cortical Circuits	**Jason Friedman** Evaluating changes in dexterity in people with Parkinson's disease at home using an electric piano	**Rony Azouz** Reliability and Stability of Tactile Perception in Rodents
	Eran Blacher Mapping the immune response in the aging gut at the setting of stroke	**Gad Vatine** Modeling Neurological Disorders at the Blood Brain barrier (BBB)	**Yoav Livneh** Brain-body interactions: Sensations and predictions in the insular cortex	**Yael Oran** Reduction of corpus callosum activity during whisking leads to interhemispheric decorrelation	**Inbal Maidan** Parkinson disease severity evaluation from home based real-life facial video	**Mati Joshua** High-Dimensional Encoding of Movement by Single Neurons in Basal Ganglia Output

11:00–13:00	F1	F2	F3	F4	F5	F6
	Alon Monsonego A neuro-endocrine-immune perspective to age-related neurodegenerative disorders	**Eran Hornstein** AI-driven deep organellar phenotyping of human iPSC-derived neurons	**Stav Shtiglitz** Cortical interoceptive predictions for neural control of nutritional choice	**Netanel Ofer** Branch-specific spike failures at distal axons in mouse cortex in vivo	**Gaddi Blumrosen** Behavioral Based Neurological condition assessment: roadmap, and feasibility with ADHD diagnosis from real-life video	**Inbal Shainer** Positional information drives distinct traits in transcriptomically identified neuronal types
	Or Shemesh Herpes Simplex Virus-1 Proteins Drive Alzheimer's disease Pathologies in Humans	**Mahmood Ali** HIKESHI-related Hypo-myelinating Leukodystrophy: a Brain-On-Chip model for pre-clinical testing of gene therapy	**Kolatt Chandran Sailendrakumar** Representation of Taste Valence Encoding in Anterior Insula (aIC) Projection Neurons		**Hila Gvirts** Automatic Alexithymia recognition from remote interviews with LLM models	**Elyashiv Zangen** Light-Responsive Neurons in the Medial Prefrontal Cortex Encode Light Intensity
	Itay Zalayat Dissecting the effects of distinct VTA projections on peripheral immunity	**Ahd hamdan** Immunocompetent Human Midbrain Organoids to Study Neuroinflammation in Parkinson's Disease	**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
			Asya Rolls Immunoception: immune representation in the brain			

13:00–14:00 **Announcement of Prizes: Best mentor Prize, Poster Competition prize, the Sieratzki Prize for Advances in Neuroscience**

END OF ISFN 2025