FENS Federation of European Neuroscience Societies

13th FENS Forum of Neuroscience
9-13 July, 2022, Paris, France
Programme at a glance

	Saturday, 9 July		Sunday, 10 July		Monday, 11 July		Tuesday, 12 July		Wednesday, 13 July	
Mini Conferences 09:00 - 15:00	MC01	**Mini Conferences** **Understanding Behaviour: Molecular, cellular & systems approaches** **Organized by EBPS, EMBL, EMCCS & IBAHGE** (09:00-13:30)	Plenary Lecture 08:30 - 09:30	PL02	**Plenary Lecture** From memory to gut microbes: an unexpected path to discovery **Mauro Costa-Mattioli (USA)**	PL04	**The Hertie Foundation Lecture** Assembly and operation of the neocortex **Song-Hai Shi (CN)**	PL06	**Plenary Lecture** Dendrites as key players in biological and artificial intelligence **Panayiota Poirazi (GR)**	PL08	**The ERA-NET NEURON Lecture** Developmental cognitive neuroscience in the era of big data **Damien Fair (USA)**
	MC02	**Molecular basis for synaptic function highlighting disease mechanisms** **Organized by ESN**	Poster Sessions 09:30 - 13:00								
	MC03	**Sleep regulation and functions: When the periphery talks to the brain** **Organized by ESRS & SFRMS**	Parallel Symposia 09:45 - 11:15	S01	**Parallel Symposium** The links between neural circuit development, human brain evolution and diseases'	S17	**Parallel Symposium** Development and evolution of bilateral sensory circuits	S33	**Parallel Symposium** Perturbation-based neuroconnectomics: principles and applications across species	S49	**Parallel Symposia** Building cortical networks from development to adulthood
				S02	The cerebral cortex challenge: generating many cell types from distinct sources in a restricted time	S18	Capturing human brain circuit development and disease mechanisms with stem cell-based technologies	S34	Cytoskeleton dynamics in neuronal development	S50	Circuits for motor control: moving from the cortex to the spinal cord and back
				S03	Psychedelic effects without psychedelic experience	S19	Integration of top–down information in cortical layer 1 and its contribution to behavior	S35	Autoantibodies in brain pathophysiology	S51	Brain adaptation and mental health through a social transactional lens
	MC04	**What is the mode of action of serotonin psychedelics in brain disorders?** **Organized by ECNP**		S04	Smell, cell-by-cell	S20	Not just insulation: Oligodendrocyte function and myelination in brain plasticity and behavior	S36	Neural circuits for context-dependent defensive behaviors in mice and flies	S52	Hippocampal plasticity along the dorsoventral axis: implications for psychiatric diseases
				S05	Neuromodulation of perceptual decision-making	S21	Genetically dissecting neurobiology of collaborative behavior in humans, macaques and rodents	S37	Engrams, circuits and biochemical reorganization for remote memory consolidation	S53	Common mechanisms of brain-body interactions across humans and animal models
Technical Workshops 10:00 - 13:00	WS01	Technical Workshops **Voltage imaging and beyond, next-generation molecular and optical tools for high-speed brain imaging**		S06	Go with the flow! Choroid plexus mechanisms shape brain function in health and disease	S22	Glia: crucial regulators of circadian rhythms and sleep	S38	Unravelling the role of the gut microbiome in addiction	S54	Olfactory-driven behaviors and their representations in the brain
				S07	Neuroimaging approaches to understanding adolescent mental health: opportunities for intervention	S23	The function(s) of the claustrum: attention, salience, sleep, all of the above, or something else?	S39	Revisiting sensory cortices: implications for diverse cognitive processing	S55	Modulating repeat expansions as a therapeutic avenue in Tandem Repeat Disorders
				S08	Neuronal network and synaptic dysfunction in Alzheimer's disease	S24	Neural mechanisms of epilepsy	S40	Transgenerational epigenetic inheritance: Is there a connection between the learned and the innate?	S56	Thinking outside the box: alternative targets and strategies for addiction
			11:30 - 13:00		Poster Authors in Attendance		Poster Authors in Attendance		Poster Authors in Attendance		Poster Authors in Attendance
			Bridging the Knowledge 12:15- 13:15	BTK01	**Bridging The Knowledge Sessions** Roche	BTK02	**Bridging The Knowledge Sessions** Roche	BTK04	**Bridging The Knowledge Sessions** Miltenyi Biotec		
	WS02	**Multiscale optical technologies for deep and large-volume brain imaging**	Special Interest Events 12:00 - 12:45	SIE04	**Special Interest Events** Strength through cohesion: protecting European neuroscience in a turbulent world (12:00-13:00)	SIE09	**Special Interest Events** The European Brain Research Area: Building a brain health partnership	SIE13	**Special Interest Events** Neuroscience careers – ask the experts		
				SIE05	The present and future of neuroscience training	SIE10	Sustainability in European neurosciences (in Open Theatre)	SIE14	Data mining for sustainability		
				SIE06	Why should I publish my paper in a society-owned journal?	SIE11	Why fake news is so fascinating to the brain	SIE15	Science communication: methods, media and making neuroscience meaningful		
								SIE16	The ERC, funding support for investigator-driven research in Europe (12:00-13:00)		
	WS03	**Novel approaches in transpecies whole-brain network analysis**	Special Lectures 13:30 - 14:15	SL02	**Special Lectures** **The Brain Prize Lecture** (13:30 - 15:00) Site of action of drugs blocking CGRP signaling in migraine **Lars Edvinsson (SW)** Calcitonin gene-related peptide in cluster headache **Peter Goadsby (UK/USA)** Trigeminovascular system as a migraine target: How did it begin and when will it end? **Michael Moskowitz (USA)** Translating migraine molecular mechanisms from man to animal **Jes Olesen (DK)**	SL05	**Special Lectures** **Host Society Special Lecture** Development of multicellated cells **Nathalie Spassky (FR)** **EDAB / Max Cowan Special Lecture** From primate anatomy to human neuroimaging: Linking circuits to psychiatric disease and neurotherapeutic targets **Susanne Haber (USA)**	SL08	**Special Lectures** **EBBS / Behavioural Brain Research Lecture** Flexible inferences in the prefrontal hippocampal circuitry **Timothy Behrens (UK)** **ISRO-Kemali Prize Lecture** From stem cells to brain assembloids: Constructing and deconstructing the human nervous system **Sergiu Pasca (USA)**	SL11	**Special Lectures** **EJN Special Feature** (11:30-12:30) Sleep-wake cycles shape proteome and phosphoproteome dynamics in brain **Maria Robles (DE)** Calcium-independent astrocytic lipid release modulates neuronal excitability **Nathan A. Smith (USA)** **EBAN-NET Neuron/Excellent Paper in Neuroscience Award** (11:30 - 12:30) Molecular biomarkers for stroke **Steffen Tiedt (DE)**
Special Interest Events 10:00 - 11:30	SIE01	**FENS-EPA Joint Symposium** **How the brain-body interface can guide new treatments for psychiatric disorders:** **A dialogue between neuroscientists and clinicians** Chairs: **Camilla Nord (UK); Philip Gorwood (FR)** Panel: **Sarah Garfinkel (UK); Friederike Petzschner (USA); Claus Vögele (LUX); Olga Pollatos (DE)**								SL12	
										SL13	**ALBA-Elsevier Award Lecture on Brain Sciences** (11:30-12:15) Neural circuits for multisensory integration and perceptual decisions **Seung-Hee Lee (KR)** Post-transcriptional regulation of the microtubule associated protein TAU: Functional consequences and therapeutic perspectives **Maria Elena Avale (AR)**
Special Lectures 13:30 - 15:00	SL01	**Special Lectures** **FENS - EJN Awards Lectures** **FENS - EJN Award** (13:30-14:00) A transformed view of neurodegenerative diseases: Immunotherapy to harness the immune system to defeat Alzheimer's disease **Michal Schwartz (IL)** **FENS-EJN Young Investigator Prize** (14:00-15:00) Measuring and modeling the sensorimotor system with machine learning **Mackenzie Mathis (CH)** Uncovering how inhibitory brain circuits regulate behaviour **Sara Mederos (UK)** Mapping neuronal and vascular networks in transparent brains **Nicolas Renier (FR)** Somatosensory Neuroprostheses: Connect the Brain to Bionic Limb **Giacomo Valle (CH)**		SL03	**Eric Kandel Prize Lecture & Scientific Award Ceremony** Organization and computation in neural circuits during development **Julijana Gjorgjieva (DE)**	SL07	**Boehringer Ingelheim / FENS Research Award** The evolution of computation in the brain – insights from studying the retina **Tom Baden (UK)** Heterosynaptic plasticity emerging from molecular interactions in dendrites **Tatjana Tchumatchenko (DE)**	SL10	**Chica and Heinz Schaller Foundation Award Lecture** A circuit model for addiction opening the road to translational research **Christian Lüscher (CH)** First clinical trials in vision restoration **José-Alain Sahel (FR)**		
13:15 - 13:30		Award Ceremony **FKNE Mentoring and PhD Thesis Prizes 2022 Awarding Ceremony**	Poster Sessions 14:00 - 17:30	SL04	**EDAB / Special Lecture on Neuroethics** Neuroethics and AI ethics: towards a productive interaction **Arleen Salles (SWAR)**					PL09	**Closing Plenary Lecture** (13:00-14:00) Organization of neural activity across the brain **Matteo Carandini (UK)**
			14:00 - 15:30		Poster Authors in Attendance		Poster Authors in Attendance		Poster Authors in Attendance		
			Special Interest Events 15:30-17:30					SIE17	**Special Interest Events** NENS fair (15:30-17:30)		
Special Interest Events 15:15 - 16:45	SIE02	**Special Interest Event** **The Brain Debate** Moderator: **Christopher Summerfield (UK)** Speakers: **Claudia Clopath (UK); Stan Dehaene (FR); Kanaka Rajan (USA); Joshua Tenenbaum (USA); Jane Wang (UK)**	Parallel Symposia 15:45 - 17:15	S09	**Parallel Symposium** The emergence of function in developing cortical circuits	S25	**Parallel Symposium** Encoding in neurons and beyond: applications in machine learning	S41	**Parallel Symposium** Decoding the prefrontal circuits of cognitive flexibility		
				S10	Neural stem cells in the adult vertebrate brain	S26	Vulnerabilities of the developing neocortex to maternal inflammation: from progenitors to circuits	S42	Specifying neuronal connectivity across species		
				S11	Revisiting Dale's Principle- Neurotransmitter plasticity and co- transmission in health and disease	S27	Adult hippocampal neurogenesis in physiology and pathology	S43	More than a relay: neuronal circuit dynamics in the visual thalamus across internal states		
				S12	Statistical learning and pattern recognition for natural behaviour in mice	S28	Multisensory integration and space representation in humans and monkeys	S44	Social cognition… beyond social interactions		
16:45 - 17:00	AC	**Award Ceremony** **The Brain Box Competition Award Ceremony**		S13	Episodic Time	S29	The basal ganglia sensory domain through tail of the striatum: reward, threat and sensory filtering	S45	The newborn brain: unraveling the interplay between early activity and network development		
				S14	Vascular hypotheses for understanding and restoring memory impairments	S30	Novel insights into the neurobiology of stress vulnerability and resilience	S46	Barriers and hopes for functional restoration after traumatic CNS injury		
				S15	Hybrid and multifunctional approaches to study neuralcircuits	S31	Intracellular dynamics and neurodegeneration	S47	Astrocytes control brain circuits underlying behavior		
				S16	Causal interactions between neuromodulators and corticostriatal circuits in decision making	S32	Understanding the formation of spatial representations from synapses to circuits	S48	Hippocampal perineuronal nets in schizophrenia and depression: opposing or complementary roles?		
			17:15 - 17:30	AC	**Award Ceremony** ALBA-FKNE Diversity Prize 2022 Awarding Ceremony						
Opening Ceremony 17:00 - 18:30		Opening Ceremony	Plenary Lecture 17:30 - 18:30		**Plenary Lecture**		**Presidential Lecture**		**Plenary Lecture**		
				PL03	Huntington disease: from neurodevelopment to neurodegeneration **Sandrine Humbert (FR)**	PL05	The molecular logic of synapse formation **Thomas Südhof (USA)**	PL07	Hungry brains and clever guts **Irene Miguel-Aliaga (UK)**		
Plenary Lecture 18:00 - 19:00	PL01	**The Fred Kavli Opening Lecture** Neurobiology of Social Behaviors **Catherine Dulac (USA)**	Special Interest Events 18:45 - 20:30	SIE07	**Special Interest Events** Phasing out animal research: a justified worry for neuroscience?	SIE12	**Special Interest Events** Paper mill articles in neuroscience	AC	**Award Ceremony** **Best poster award** (18:30-18:50)		
				SIE08	Event on neuroethics						
			Bridging the Knowledge 18:45 - 20:30	BTK		BTK03	**Bridging The Knowledge Sessions** INCF Session				
Networking Events 19:00 - 20:30	NE02	**Networking Events** 19:00-21:00 Institut Pasteur Social	Networking Events 18:45 - 20:30	NE08	**Networking Events** Annual General Meeting of the German Neuroscience Society (GNS)	NE13	**Networking Events** Swiss Society for Neuroscience Social Event	NE14	**Networking Events** Brain capital and the young generation		
	NE04	"Speed-Neurodating": An innovative workshop aimed at the students to meet young and consolidated neuroscientists		NE11	Are we equipped to work interdisciplinarily? - On the lack of philosophical education for neuroscientists	NE15	Powering a new era in Brain Research : meet EBRAINS Research Infrastructure				