

NEURO2022 Chair / Speaker List

(as of 16 June 2022)

DATE	START	END	VENUE #	ABSTRACT #	NAME	ONLINE	TITLE
1S01m Elucidation of physiological and pathological brain function by human microglia							
30 June 2022	9:00	11:00	1	1S01m-001	Chair: Kinichi NAKASHIMA		
				1S01m-002	Chair: Bijay PARAJULI		
	9:02	9:30		1S01m-01	Speaker: Kinichi Nakashima		Direct conversion of microglia into neurons and its therapeutic application to ischemic brain injury
	9:30	9:58		1S01m-02	Speaker: Bijay Parajuli		Development of novel transplantation method for studying physiological and pathological role of human induced pluripotent stem cell-derived microglia in immunocompetent mice brain
	9:58	10:28		1S01m-03	Speaker: Iki Sonn		Generating Microglia from Human iPS cells and Disease Modeling
	10:28	10:58		1S01m-04	Speaker: Huaxi Xu		HUMAN MICROGLIAL APOE and ALZHEIMER'S DISEASE
1S02m Connections between the societies of basic research and clinical research in Neuro 2022							
30 June 2022	9:00	11:00	2	1S02m-001	Chair: Norio OZAKI		
				1S02m-002	Chair: Kenjiro ONO		
	9:00	9:25		1S02m-01	Speaker: Kenji F Tanaka		reverse translational study in psychiatric disease.
	9:25	9:50		1S02m-02	Speaker: Shigeo Murayama		The Japanese Brain Bank Network for Neuroscience Research
	9:50	10:15		1S02m-03	Speaker: Tatsushi Toda		Neurologists' Recommendations for Basic Research
1S03m Drug discovery based on novel therapeutic target to neuropsychiatric disorders in interdisciplinary research							
30 June 2022	9:00	11:00	3	1S03m-001	Chair: Daisuke IBI		
				1S03m-002	Chair: Akihiro MOURI		
	9:05	9:25		1S03m-01	Speaker: Akira Yoshimi		Identification of molecules involved in the pathophysiology of schizophrenia using omics technology and development of biomarkers
	9:25	9:45		1S03m-02	Speaker: Yuko Arioka		PERK dysfunction as a molecular and cellular pathophysiology in the brain of patients with 22q11.2 deletion syndrome and its significance
	9:45	10:01		1S03m-03	Speaker: Daisuke Ibi		Validity of serotonin 5-HT _{2A} receptor in the lateral septum as a therapeutic target of stress-related disorders
	10:01	10:17		1S03m-04	Speaker: Akihiro Mouri		Development of biomarker and therapeutic agents for psychiatric disorders focusing on alteration of tryptophan metabolism
	10:17	10:37		1S03m-05	Speaker: Ryoji Suno		Structural biology of GPCRs for drug discovery
	10:37	10:57		1S03m-06	Speaker: Noriki Kutsumura		Drug Discovery Research in Academia Targeting Orexin Receptors
1S04m Novel development of artificial nerve fiber tissue model, and application from engineering to medicine							
30 June 2022	9:00	11:00	4	1S04m-001	Chair: Shinsuke SHIBATA		
				1S04m-002	Chair: Yoshiho IKEUCHI		
	9:00	9:20		1S04m-01	Speaker: Midori Negishi		Neural cell fiber for drug screening and transplantation therapy
	9:20	9:40		1S04m-02	Speaker: Naoki Suzuki		Elucidation of the mechanism of amyotrophic lateral sclerosis using a motor nerve organoid device
	9:40	10:00		1S04m-03	Speaker: Hidenori Akutsu		Neuronal organoid in a chip for studying human antenatal white matter injury
	10:00	10:20		1S04m-04	Speaker: Shinsuke Shibata		Development of novel medical material for peripheral neuropathy using human iPS cell-derived nerve organoids using a special culture device
	10:20	10:40		1S04m-05	Speaker: Tatsuya Osaki		Advanced complexity and plasticity of neural activity in reciprocally connected human brain organoids
	10:40	11:00		1S04m-06	Speaker: Agnes Tixier-Mita		Thin-Film-Transistor Sensing Platform for Real-time Multi-modal Analyses of Excitable Cells Culture
1O05m1 Autonomic Regulation							
30 June 2022	9:00	10:00	5	1O05m1	Chair: Shoichi SHIMADA		
	9:00	9:15		1O05m1-01	Speaker: Masatoshi Ito		Inositol pyrophosphate profiling reveals IP6K2-dependent regulatory role of enhanced IP7 metabolism in gastrointestinal neuronal environment
	9:15	9:30		1O05m1-02	Speaker: Aozora Yamamoto		The Effect of Drinking Water during Sports on Heart Rate Variability
	9:30	9:45		1O05m1-03	Speaker: Yoshifumi ARAI		Activity pattern of a novel subtype of REM sleep-regulating neurons
1O06m1 Neurotransmitters and Signaling Molecules							
30 June 2022	9:00	10:00	6	1O06m1	Chair: Yoshikazu ISOMURA		
	9:00	9:15		1O06m1-01	Speaker: Daiki Masukawa		L-DOPA modulates anxiety-like behavior through coupling between GPR143 and dopamine D2 receptors in the indirect pathway striatal neuron
	9:15	9:30		1O06m1-02	Speaker: Shinobu Nomura		PKA activity in layer II/III of somatosensory cortex in behaving mice
	9:30	9:45		1O06m1-03	Speaker: Yukie Yamahashi		Phosphoproteomics of the acetylcholine pathway enables discovery of the PKC- β -PIX-Rac1-PAK cascade as a stimulatory signal for aversive learning
	9:45	10:00		1O06m1-04	Speaker: Yucheng Xie		FMRamide-like neuropeptide FLP-2 may modulate salt chemotaxis of <i>C. elegans</i> by mediating food signals
1O07m1 Sleep and Biological Rhythms							
30 June 2022	9:00	10:00	7	1O07m1	Chair: Akihiro YAMANAKA		
	9:00	9:15		1O07m1-01	Speaker: Tomohiro Kitazono		Novel signaling pathways regulating homeostatic sleep need in neurons
	9:15	9:30		1O07m1-02	Speaker: Kanako Iwasaki		Neuroanatomical analysis of how the gain-of-function mutation in <i>Sik3</i> increases sleep
	9:30	9:45		1O07m1-03	Speaker: Shinya Nakata		Molecular mechanisms for sleep/wake regulation mediated by <i>SIK3</i> kinase activity
	9:45	10:00		1O07m1-04	Speaker: Daisuke Ono		Network driven circadian cAMP rhythm in the mouse suprachiasmatic nucleus
1S08m High dimensional neural data: the experimental and theoretical frontiers							
30 June 2022	9:00	11:00	8	1S08m-001	Chair: Samuel REITER		
				1S08m-002	Chair: Shoi SHI		
	9:00	9:25		1S08m-01	Speaker: Akihiro Funamizu		Theory-based behavioral task for understanding neural substrate of perceptual decision making
	9:25	9:50		1S08m-02	Speaker: Leenoy Meshulam		Octopus camouflage: a multiscale approach
	9:50	10:05		1S08m-03	Speaker: Shoi Shi		Big data analysis revealed a landscape of human sleep phenotypes
	10:05	10:30		1S08m-04	Speaker: Hidehiko Inagaki		The neuronal dynamics for movement initiation
	10:30	10:55		1S08m-05	Speaker: Alex Alex Cayco Gajic		Capturing the evolution of low-dimensional dynamics in large scale neural recordings with sliceTCA
1S09m Translational paradigms for cortical function as a large-scale network							
30 June 2022	9:00	11:00	9	1S09m-001	Chair: Nobuhiro NAKAI		
				1S09m-002	Chair: Hiromu MONAI		
	9:02	9:22		1S09m-01	Speaker: Kenneth Harris		A transcriptomic axis predicts state modulation of cortical interneurons
	9:22	9:40		1S09m-02	Speaker: Rie Kimura		Neuronal activity supporting orientation discrimination at low contrast
	9:40	10:00		1S09m-03	Speaker: Timothy Buschman		Neural Dynamics of Working Memory
	10:00	10:18		1S09m-04	Speaker: Dana Rubi Levy		Cortico-striatal control of spontaneous behaviors
	10:18	10:38		1S09m-05	Speaker: Takaki Komiyama		Cortical control of voluntary movements
	10:38	10:56		1S09m-06	Speaker: Nobuhiro Nakai		Abnormal dynamics of cortical functional networks during behavioral transitions in a mouse model of autism
1S10m Formation of the earliest cortical neuronal circuits orchestrated by subplate neural activity							
30 June 2022	9:00	11:00	10	1S10m-001	Chair: Chiaki MARUYAMA		
				1S10m-002	Chair: Zoltán MOLNÁR		
	9:02	9:27		1S10m-01	Speaker: Zoltan Molnar		Shadows of the Subplate - Repurposed Cells of Development in the Adult Brain
	9:27	9:42		1S10m-02	Speaker: Chiaki Ohtaka-Maruyama		Identification of embryonic molecular markers of mouse subplate neurons and search for their developmental
	9:42	9:59		1S10m-03	Speaker: Yumiko Yoshimura		Visual response selectivity in subplate neurons of mouse visual cortex
	9:59	10:24		1S10m-04	Speaker: Heiko J. Luhmann		Role of subplate neurons in the construction and deconstruction of the cerebral cortex
	10:24	10:41		1S10m-05	Speaker: Hiroyuki Kidokoro		Delta brush on electroencephalogram during early human brain development
	10:41	10:58		1S10m-06	Speaker: Gentaro Taga		A model for subplate-mediated formation of long association fibers in human fetal cortex
1O05m2 Neural Circuit Manipulation / Imaging and Visualization							
30 June 2022	10:00	11:00	5	1O05m2	Chair: Okito YAMASHITA		
	10:00	10:15		1O05m2-01	Speaker: Sumiya Shibata		A brand-new transcranial static magnetic field stimulation (triple tSMS) of human motor cortex
	10:15	10:30		1O05m2-02	Speaker: Kenshu Koiso		Towards whole-brain layer-fMRI connectivity: methodological advancements for functional layer connectomics
	10:30	10:45		1O05m2-03	Speaker: Betty Wutzl		Determining the Correlation between Subjective Well-Being and EEG Alpha Asymmetry under Different Environmental Conditions
	10:45	11:00		1O05m2-04	Speaker: Yuki Oi		The adverse effects of white matter lesions on cortical surface analysis in the healthy aged adults: A method proposed for improvement
1O06m2 Synapses							
30 June 2022	10:00	11:00	6	1O06m2	Chair: Fuminori TSURUTA		
	10:00	10:15		1O06m2-01	Speaker: Norihiko Yokoi		14-3-3 proteins stabilize LGI1-ADAM22 levels to prevent epilepsy in mice
	10:15	10:30		1O06m2-02	Speaker: Jae-ick Kim		GABAergic-like dopamine synapses in the brain
	10:30	10:45		1O06m2-03	Speaker: Hiromitsu Tanaka		Fluorescent visualization of presynaptic endocytosed vesicles after exocytosis at individual hippocampal presynaptic active zones

	10:45	11:00		1006m2-04	Speaker: Taichi Onishi		Development of a labeling method for fear memory synapses
1007m2	Stress / Neuroendocrine System						
30 June 2022	10:00	11:00	7	1007m2	Chair: Michihiro MIEDA		
	10:00	10:15		1007m2-01	Speaker: Hibiki Okamura		Effect of chronic social defeat stress on brain activity during social interaction in BALB/c mice using a novel sem automated c-Fos mapping method
	10:15	10:30		1007m2-02	Speaker: Ayumu Inutsuka		Oxytocin receptor-expressing neurons in the medial prefrontal cortex modulate stress responses induced by social defeat
	10:30	10:45		1007m2-03	Speaker: Akito Otubo		The gastrin-releasing peptide receptor system in the posterodorsal part of the medial amygdala controls sexual activity and sexual preference in male rats
	10:45	11:00		1007m2-04	Speaker: Yuki Kambe		Regulation of feeding by neuropeptide signaling from ventromedial-PACAP to dorsomedial-galanin in the hypothalamus
1PL01	Decisions, movements and brains						
30 June 2022	11:10	12:10	1	1PL01	Chair: Kazushi IKEDA		
				1PL01	Speaker: Anne Churchland		Decisions, movements and brains
1LS03	Behavioral and psychological functions of oxytocin and the methods of oxytocin measurements						
30 June 2022	12:10	13:00	3	1LS03	Chair: Naoto SHIMADA		
				1LS03	Speaker: Takefumi Kikusui		Behavioral and psychological functions of oxytocin and the methods of oxytocin measurements
1LS04	New normal of fluorescence microscopy and fluorescence lifetime imaging						
30 June 2022	12:10	13:00	4	1LS04	Chair: Shintaro TANAKA		
				1LS04	Speaker: Nobuhide Tsurumaki		New normal of fluorescence microscopy and confocal microscopy
				1LS04	Speaker: Suguru Osari		Fluorescence lifetime imaging with Leica confocal microscope STELLARIS
1LS05	Introduction of gene transfer method into the adult mouse brain						
30 June 2022	12:10	13:00	5	1LS05	Chair: Kohtarō TAKEI		
				1LS05	Speaker: Takeshi Kanda		Visualization of network dynamics in the adult mouse brain: from gene transfer with viral vectors to machine learning analysis
				1LS05	Speaker: Tadashi Nomura		Rapid gene delivery into the adult mouse brain via focal electroporation
1LS06	Treatment of Parkinson's Disease on Advanced Stage- Best Treatment with an Emphasis on QOL-						
30 June 2022	12:10	13:00	6	1LS06	Chair: Kenjiro ONO		
				1LS06	Speaker: Naomi Kazato		Treatment of Parkinson's Disease on Advanced Stage- Best Treatment with an Emphasis on QOL-
1LMS07	Introduction of Japan-U.S. Brain Research Cooperative Program (BRCP)						
30 June 2022	12:10	13:00	7	1LMS07	Speaker: Akemi TOMODA		The Effect of Childhood Maltreatment on Brain Development
				1LMS07	Speaker: Martin H. Teicher		The Effect of Childhood Maltreatment on Brain Development
1LS08	Snapshot of the molecular cell architecture during sleep/wake states using single-cell gene expression analysis						
30 June 2022	12:10	13:00	8	1LS08	Chair: Takeshi SAKURAI		
				1LS08	Speaker: Michael Lazarus		Snapshot of the molecular cell architecture during sleep/wake states using single-cell gene expression analysis
1SL01	Rapid eye movement sleep is initiated by basolateral amygdala dopamine signaling in mice						
30 June 2022	14:00	15:00	1	1SL01	Chair: Akihiro YAMANAKA		
				1SL01	Speaker: Takeshi Sakurai		Rapid eye movement sleep is initiated by basolateral amygdala dopamine signaling in mice
1S02a	Neuroscience and single-cell transcriptomics						
30 June 2022	14:00	16:00	2	1S02a	Chair: Masahito YAMAGATA		
	14:00	14:15		1S02a-01	Speaker: Masahito Yamagata		A Primer of Single Cell Technologies and Neuroscience
	14:15	14:45		1S02a-02	Speaker: Karthik Shekhar		Single-cell analysis of neural development in the visual system
	14:45	15:15		1S02a-03	Speaker: Yohei Ogawa		Conservation and divergence of cis-regulatory codes during vertebrate retinal evolution
	15:15	15:45		1S02a-04	Speaker: Jinyue Liu		Integrative Analysis of Single-cell Transcriptomics with Multiplexed RNA Imaging for Mapping Autism Pathophysiology
1S03a	A new era in CNS immunity: a wide variety of immune cells governs brain environment. A potential target for therapeutics						
30 June 2022	14:00	16:00	3	1S03a-001	Chair: Takahiro MASUDA		
				1S03a-002	Chair: Minako ITO		
	14:00	14:30		1S03a-01	Speaker: Simone Brioschi		Phenotype and origin of meningeal B cells
	14:30	15:00		1S03a-02	Speaker: Takahiro Masuda		Diverse macrophages govern brain environment
	15:00	15:30		1S03a-03	Speaker: Justin Rustenhoven		Brain borders at the central stage of neuroimmunology
	15:30	16:00		1S03a-04	Speaker: Minako Ito		Elucidation of immune cell dynamics after ischemic stroke
1S04a	Molecular and neuronal mechanisms of chemoreception: from gustation to interoception						
30 June 2022	14:00	16:00	4	1S04a-001	Chair: Akiyuki TARUNO		
				1S04a-002	Chair: Emily R LIMAN		
	14:00	14:24		1S04a-01	Speaker: Yasuka Toda		Evolution of sweet and umami taste perception in vertebrates
	14:24	14:48		1S04a-02	Speaker: Emily Liman		Proton channels and the molecular basis for sour taste
	14:48	15:12		1S04a-03	Speaker: Ichiro Matsumoto		Functional diversification of taste cells in mice
	15:12	15:36		1S04a-04	Speaker: Sara Prescott		Sensory Mechanisms of the Mammalian Airways
	15:36	16:00		1S04a-05	Speaker: Akiyuki Taruno		Extraoral distribution and function of the channel synapse
1005a1	Social Behavior 1						
30 June 2022	14:00	15:00	5	1005a1	Chair: M. Ayako WATABE		
	14:00	14:15		1005a1-01	Speaker: Arpita Konar		Early life trauma leads to sex specific long lasting violent behaviour by impairing thyroid hormone availability in
	14:15	14:30		1005a1-02	Speaker: Kengo Horie		Ablating oxytocin receptor (Oxtr) reduces empathetic consoling and correlated brain activity in male, but not female, prairie voles (Microtus ochrogaster).
	14:30	14:45		1005a1-03	Speaker: Masaya Hasegawa		Increase of kynurenic acid associated with decrease of microglia-derived kynurenine-3-monooxygenase is involved in depressive-like behavior and dysregulation of hypothalamic-pituitary-adrenal axis induced by the chronic unpredictable mild stress
	14:45	15:00		1005a1-04	Speaker: Tsuyoshi Hattori		Astroglial CD38 regulates social memory and synapse formation through SPARCL1 in the postnatal brain
1WD06a1	Wakate Dojo: Sleep / Stress / Neuroendocrine System						
30 June 2022	14:00	15:00	6	1WD06a1	Chair: Hiroko BABA		
	14:00	14:15		1WD06a1-01	Speaker: Ksenia Prokofeva		Delineation of Neural Circuits of Galaninergic Neurons in the VLPO Implicated in Regulation of Sleep
	14:15	14:30		1WD06a1-02	Speaker: Md Tarikul Islam		Vasopressin neurons in the paraventricular hypothalamus promote wakefulness via lateral hypothalamic orexin neurons
	14:30	14:45		1WD06a1-03	Speaker: Kento Igarashi		Analysis of the effects of oxytocin and vasopressin on mice showing high aggression in isolation-rearing
	14:45	15:00		1WD06a1-04	Speaker: Shinnosuke Yasugaki		Does artificially increased REM sleep affect stress resilience in mice?
1WD07a1	Wakate Dojo: Alzheimer's Disease and Dementia 1						
30 June 2022	14:00	15:00	7	1WD07a1	Chair: Kenjiro ONO		
	14:00	14:15		1WD07a1-01	Speaker: Eiko Amo		The effect of oleic acid on amyloid beta-uptake of microglial cells
	14:15	14:30		1WD07a1-02	Speaker: Asumi Orihara		Neurodegenerative pathology and tau accumulation under microglia depletion in tauopathy model mice
	14:30	14:45		1WD07a1-03	Speaker: Yuki Kawaguchi		Regulation of amyloid β protein receptor PirB by a neural circuit formation factor LOTUS
	14:45	15:00		1WD07a1-04	Speaker: Mauro Montalbano		Soluble tau oligomers modulates expression and cellular compartmentalization of RNA-Binding Proteins Musash neurons expressing mutant P301S tau
1S08a	Advancement in World model and Deep Reinforcement Learning						
30 June 2022	14:00	16:00	8	1S08a-001	Chair: Tadahiro TANIGUCHI		
				1S08a-002	Chair: Masahiro SUZUKI		
	14:05	14:25		1S08a-01	Speaker: Yutaka Matsuo		Model of Intelligence based on Self-Supervised Learning
	14:25	14:45		1S08a-02	Speaker: Jun Tani		Studies on cognitive neurobotics using the framework of predictive coding and active inference
	14:45	15:05		1S08a-03	Speaker: Ryo Okumura		Towards accurate, transferable, and sample efficient world models for industrial application
	15:05	15:25		1S08a-04	Speaker: Shixiang Shane Gu		Toward a Perpetual Learning Robot
	15:25	15:45		1S08a-05	Speaker: Hiroshi Yamakawa		How to handle heterogeneous tasks with single brain: Perspective that the artificial general intelligence (AGI) is not so far away
1S09a	High dimensional neural computation and network reconstruction for learning and cognitive function						
30 June 2022	14:00	16:00	9	1S09a-001	Chair: Masakazu AGETSUMA		
				1S09a-002	Chair: Takuya SASAKI		
	14:05	14:28		1S09a-01	Speaker: Sandra Reinert		Neural representations of learned categories in mouse prefrontal cortex
	14:28	14:51		1S09a-02	Speaker: Miho Nakajima		PFC network dynamics underlying flexible task switching
	14:51	15:14		1S09a-03	Speaker: Hideaki Shimazaki		State-space analysis for neural population dynamics
	15:14	15:37		1S09a-04	Speaker: Masakazu Agetsuma		Functional rewiring of prefrontal cortical networks by associative learning

	15:37	16:00		1S09a-05	Speaker: Takuya Sasaki		The roles of awake hippocampal replays for online learning and offline memory consolidation
1S10a	Evolutionary expansion and complication of the mammalian brain						
30 June 2022	14:00	16:00	10	1S10a-001	Chair: Ayano KAWAGUCHI		
				1S10a-002	Chair: Hiroshi KAWASAKI		
	14:00	14:20		1S10a-01	Speaker: Ayano Kawaguchi		Generation of outer radial glial cells that contribute to evolutionary expansion of the cerebral cortex
	14:20	14:40		1S10a-02	Speaker: Jun Hatakeyama		Extrinsic factors nurturing neural stem cells
	14:40	15:05		1S10a-03	Speaker: Fumio Matsuzaki		Exploring the relationship of progenitor subtypes in and between gyrencephalic species at the single cell level
	15:05	15:30		1S10a-04	Speaker: Hiroshi Kawasaki		Investigation of the mechanisms underlying the expansion and complication of the cerebrum using ferrets
	15:30	16:00		1S10a-05	Speaker: Wieland B Huttnner		Neural stem cells, human-specific genes, and neocortex expansion in development and human evolution
1AL-01a	Temporal controls over neuronal diversity						
30 June 2022	15:00	16:00	1	1AL-01a	Chair: Mikio HOSHINO		
				1AL-01a	Speaker: Denis Jabaudon		Temporal controls over neuronal diversity
1O05a2	Decision Making						
30 June 2022	15:00	16:00	5	1O05a2	Chair: Yuichi TAKEUCHI		
	15:00	15:15		1O05a2-01	Speaker: Mayumi Nishi		Effects of social defeat stress on effort-based decision making
	15:15	15:30		1O05a2-02	Speaker: Asako Mitsuto Nagase		Updates of the Expected Cost of Mental Effort Would Need Actual Effort Exertion and Adaptive Learning of Ment Effort Cost Would Not Follow Temporal-Difference Learning
	15:30	15:45		1O05a2-03	Speaker: Daigo Takeuchi		Dynamical encoding of rule representations in cingulate-motor circuits for sequential choice decisions
1WD06a2	Wakate Dojo: Alzheimer's Disease and Dementia 2						
30 June 2022	15:00	16:00	6	1WD06a2	Chair: Kazunori IMAIZUMI		
	15:00	15:15		1WD06a2-01	Speaker: Tsukasa Iki		Blood factors preventing cognitive decline in Alzheimer's disease
	15:15	15:30		1WD06a2-02	Speaker: Kei Hashimoto		Blockade of endo-lysosomal pathway promotes progranulin-deficient microglial toxicity via proinflammatory lipid: Identification of tau phosphorylation sites which affect its functions on microtubules and axonal localization in neurons
	15:30	15:45		1WD06a2-03	Speaker: Zhiwei Yao		Human-Derived Induced Pluripotent Stem Cells-Based Disease Models of the Alzheimer's Disease (AD) Patients Expressed AD Phenotypes and Responded to 17 β -Estradiol Treatment
	15:45	16:00		1WD06a2-04	Speaker: Sopak Supakul		
1WD07a2	Wakate Dojo: Neuroendocrine System and Behavior						
30 June 2022	15:00	16:00	7	1WD07a2	Chair: Masabumi MINAMI		
	15:00	15:15		1WD07a2-01	Speaker: Kengo Inada		A vasotocin-to-oxytocin receptor signaling underlies paternal caregiving behaviors
	15:15	15:30		1WD07a2-02	Speaker: Ziyang Huang		Neural representation of multifaceted behavioral states during observational fear in the medial prefrontal cortex
	15:30	15:45		1WD07a2-03	Speaker: Yuji Nishiike		Estrogen receptor 2b is responsible for feminization and demasculinization of mating behavior in medaka
	15:45	16:00		1WD07a2-04	Speaker: WINDA ARIYANI		PVH TH neurons mediate feeding behaviors
1AL-01e	Nakaakira Tsukahara Memorial Award Lectures						
30 June 2022	16:10	17:10	1	1AL-01e	Chair: Shigeo OKABE		
	16:10	16:40		1AL-01e-01	Speaker: Noriyuki Matsuda		Mitophagy dysfunction relevant to the hereditary Parkinson's disease
	16:40	17:10		1AL-01e-02	Speaker: Takafumi Minamimoto		Visualizing and manipulating primate brain circuits and functions
1S02e	in Transformative high-throughput functional neuroscience with in vivo genome editing						
30 June 2022	16:10	18:10	2	1S02e-001	Chair: Tomomi AIDA		
				1S02e-002	Chair: Teruhiro OKUYAMA		
	16:10	16:13		1S02e-01	Speaker: Tomomi Aida		Welcome to in vivo genome editing revolution
	16:13	16:40		1S02e-02	Speaker: Xin Jin		In vivo Perturb-seq: scaled investigation of gene functions in the developing brain
	16:40	16:51		1S02e-03	Speaker: Teruhiro Okuyama		Disrupted social memory representation in autism-associated Shank3 mutant mice
	16:51	17:18		1S02e-04	Speaker: Dheeraj Roy		Anterior thalamic dysfunction underlies cognitive deficits in neuropsychiatric disease models
	17:18	17:45		1S02e-05	Speaker: Ying Zhang		Targeting parafascicular thalamic circuits rescues motor deficits in a mouse model of Parkinson's disease
	17:45	18:10		1S02e-06	Speaker: Hideyuki Okano		Disease Modeling using Marmosets with Germ Line Modification and In Vivo Genome Editing
1S03e	Control by glia of higher brain functions						
30 June 2022	16:10	18:10	3	1S03e-001	Chair: Schuichi KOIZUMI		
				1S03e-002	Chair: Hiroaki WAKE		
	16:10	16:40		1S03e-01	Speaker: Anne Schaefer		Negative feedback control of neuronal activity by microglia
	16:40	17:10		1S03e-02	Speaker: Hiroaki WAKE		Microglia and sensory modality
	17:10	17:40		1S03e-03	Speaker: Jun Nagai		Probing and exploring behaviorally-consequential astrocyte ensembles
	17:40	18:10		1S03e-04	Speaker: Schuichi Koizumi		Synapse remodeling by reactive astrocytes
1S04e	Sensorimotor integration for dexterous forelimb motor control						
30 June 2022	16:10	18:10	4	1S04e-001	Chair: Aya TAKEOKA		
				1S04e-002	Chair: Tomohiko TAKEI		
	16:14	16:43		1S04e-01	Speaker: Eiman Azim		Modulation of tactile feedback for the execution of dexterous movement
	16:43	17:12		1S04e-02	Speaker: Yifat Prut Prut		The role of thalamocortical interactions in coordination and adaptation of voluntary movements
	17:12	17:41		1S04e-03	Speaker: Tomohiko Takei		Neural dynamics of motor cortex for flexible feedback motor control
	17:41	18:10		1S04e-04	Speaker: Aya Takeoka		Cell type-specific visual information routing via the Superior Colliculus is indispensable for goal-directed forelimb reaching movements.
1O05e1	Imaging and Visualization / Molecular, Biochemical and Genetic Techniques						
30 June 2022	16:10	17:10	5	1O05e1	Chair: Akihiro FUNAMIZU		
	16:10	16:25		1O05e1-01	Speaker: Kiwamu Takemoto		Optical inactivation of synaptic molecules using chromophore-assisted light inactivation and its application to memory analysis.
	16:25	16:40		1O05e1-02	Speaker: Masaya Hagiwara		Multi-directional 4D imaging with oblique rotational mechanisms for organoid culture
	16:40	16:55		1O05e1-03	Speaker: Motokazu Uchigashima		Quantitative, spatiotemporal profiling of endogenous proteins in mammalian brain tissues via CRISPR/Cas9-base knock-in of chemical tags
	16:55	17:10		1O05e1-04	Speaker: Barbara Teixeira Sais		Compact device for simultaneous cell electrophysiological signal and fluorescence imaging acquisition
1WD06e1	Wakate Dojo: Neurogenesis						
30 June 2022	16:10	17:10	6	1WD06e1	Chair: Hiroshi ICHINOSE		
	16:10	16:25		1WD06e1-01	Speaker: Asmaa Abdullah		Fut9 deficient cause abnormal neuronal migration in the developing brain
	16:25	16:40		1WD06e1-02	Speaker: Mikiko Kudo		Akhrin, a secreted protein, is involved in innate immune responses during brain development and maintains homeostasis in the neural stem cell niche.
	16:40	16:55		1WD06e1-03	Speaker: Ayumu Mubuchi		The extracellular matrix formed in the developing cerebral cortex is required for neuronal migration
	16:55	17:10		1WD06e1-04	Speaker: Kotaro Hayashi		The mechanism of how migrating neurons stop just beneath the marginal zone in the developing mammalian neocortex
1WD07e1	Wakate Dojo: Glial Mechanisms						
30 June 2022	16:10	17:10	7	1WD07e1	Chair: Manabu MAKINODAN		
	16:10	16:25		1WD07e1-01	Speaker: Hideaki Suzuki		Regulation of neuron-astrocyte communication via ATP/P2Y1 signaling by microglia
	16:25	16:40		1WD07e1-02	Speaker: Rena Kono		Microglia remove red blood cells during development
	16:40	16:55		1WD07e1-03	Speaker: Takahiro Tsuji		Microglial phagocytosis suppression of the development of metastatic tumors in the imaging model of brain metastasis.
	16:55	17:10		1WD07e1-04	Speaker: Ana Isabel Silva		Psychostimulant-induced neuroinflammation: the protective role of IL-10
1S08e	Circuit, computation, and clinic in decision-making with social withdrawal (hikikomori)						
30 June 2022	16:10	18:10	8	1S08e-001	Chair: Takatoshi HIKIDA		
				1S08e-002	Chair: Naoki HONDA		
	16:12	16:35		1S08e-01	Speaker: Takahiro A. Kato		Blood biomarkers of hikikomori: Development of support system for hikikomori based on findings from the hikikomori-research clinic.
	16:35	16:58		1S08e-02	Speaker: Yukiko Hamasaki		Psycho-behavioral characteristics of the Japanese and French Social Withdrawal (Hikikomori) in Adolescents
	16:58	17:21		1S08e-03	Speaker: Naoki Honda		Data-Driven Decoding of Psychological Conflict
	17:21	17:44		1S08e-04	Speaker: Tom Macpherson		Neural mechanisms of reward and aversive signaling
	17:44	18:07		1S08e-05	Speaker: Tadaaki Nishioka		Neural mechanisms for the strategy to avoid a choice that leads to negative outcome in reward-based decision-making
1S09e	Reward representations in the entorhinal-hippocampal memory circuit						
30 June 2022	16:10	18:10	9	1S09e-001	Chair: Kei M IGARASHI		
				1S09e-002	Chair: Charlotte N BOCCARA		
	16:10	16:40		1S09e-01	Speaker: Lisa Giocomo		Reward related dynamics in the parahippocampal circuit
	16:40	17:10		1S09e-02	Speaker: Charlotte N Boccara		Complementary roles of the hippocampus and the entorhinal cortices for reward learning and consolidation during sleep
	17:10	17:40		1S09e-03	Speaker: Kei M Igarashi		Dopamine facilitates encoding of cue-reward associative memory in the lateral entorhinal cortex

	17:40	18:10		1S09e-04	Speaker: Attila Losonczy		Encoding and consolidation of reward-related information in the hippocampus
1S10e	Developmental Integration of Long-range Projection to Cortical Microcircuit						
30 June 2022	16:10	18:10	10	1S10e-001	Chair: Hirofumi MORISHITA		
				1S10e-002	Chair: Leena Ali IBRAHIM MAROSH		
	16:10	16:34		1S10e-01	Speaker: Song-Hai Shi		Precise long-range circuit organization in the neocortex
	16:34	16:58		1S10e-02	Speaker: Etsuko Tarusawa		Developmental integration of clonally-related cortical neural assemblies
	16:58	17:22		1S10e-03	Speaker: Leena Ali Ibrahim Marosh		Developmental integration of bottom-up and top-down inputs onto L1 interneurons
	17:22	17:46		1S10e-04	Speaker: Jordan M Ross		Adolescent development of top-down circuits for bottom-up novelty detection
	17:46	18:10		1S10e-05	Speaker: Hirofumi Morishita		Local and Long-range Balance in Maturing Frontal Cognitive Circuit
JSN-AL	JSN Distinguished Investigator Award Lecture						
30 June 2022	17:10	18:10	1	JSN-AL	Chair: Kazunobu SAWAMOTO		
	17:10	17:35		JSN-AL-1	Speaker: Atsushi Kasai		The mechanisms of stress-induced anxiety responses revealed by brain-wide neuronal activation mapping
	17:40	18:05		JSN-AL-2	Speaker: Takashi Kitamura		Neural circuit mechanisms for episodic memory formation in the entorhinal cortical-hippocampal networks
1O05e2	Imaging and Visualization						
30 June 2022	17:10	18:25	5	1O05e2	Chair: Hiroyuki KAMIGUCHI		
	17:10	17:25		1O05e2-01	Speaker: Tomoki T Mitani		Cellomics accelerated by cleared organs with an application for neurology
	17:25	17:40		1O05e2-02	Speaker: Julie A. Chouinard		Spatiotemporal dynamics of dopamine and acetylcholine
	17:40	17:55		1O05e2-03	Speaker: Yasuo YOSHIMI		Imaging of transmitter secretion by neuronal staining with fluorescent molecularly imprinted polymeric
	17:55	18:10		1O05e2-04	Speaker: Tatsushi Yokoyama		Development and application of a supersensitive indicator for cAMP
	18:10	18:25		1O05e2-05	Speaker: Marcus Leiwé		Super-multicolour labelling of neurons for automated circuit reconstructions
1WD06e2	Wakate Dojo: Social Brain Development and Disorders						
30 June 2022	17:10	18:10	6	1WD06e2	Chair: Makoto TSUDA		
	17:10	17:25		1WD06e2-01	Speaker: Yuki Katsuno		Elucidation of the mechanism of Autism spectrum disorder focusing on AMPA receptors
	17:25	17:40		1WD06e2-02	Speaker: Yuka Shiota		Changes in Brain Networks in Sub-threshold Autism Spectrum Disorders: A MEG study
	17:40	17:55		1WD06e2-03	Speaker: Shan, Wang		Loss-of-function variants in the schizophrenia risk gene SETD1A alter neuronal network activity in human neuron through cAMP/PKA pathway
	17:55	18:10		1WD06e2-04	Speaker: Takashi Komori		Overexpression of microglia-derived BDNF impairs the formation of social brain networks during development
1WD07e2	Wakate Dojo: Modeling, Hardware Implementation, and Applications						
30 June 2022	17:10	18:25	7	1WD07e2	Chair: Akiko HAYASHI-TAKAGI		
	17:10	17:25		1WD07e2-01	Speaker: Hirosato Akahoshi		Comparison between attentions of artificial neural networks and those of humans
	17:25	17:40		1WD07e2-02	Speaker: Riza Rae Aldecoa Pineda		Monkey Act, Monkey React: An Automatic Video Captioning System of Wild Monkey Behaviors for Social Interaction Analysis of Nonhuman Primates
	17:40	17:55		1WD07e2-03	Speaker: Daiki Sekizawa		Information-Thermodynamic Cost and Speed Limit in High-dimensional Neural Dynamic
	17:55	18:10		1WD07e2-04	Speaker: Matthew J. Holland		Achieving desirable reward distributions by design
	18:10	18:25		1WD07e2-05	Speaker: Toru Kurihara		Gait phase-based control of a robotic prosthesis for hip-disarticulation prosthesis using a simulation environmen with deep reinforcement learning
2EL03m	Information theoretical approaches to model synaptic plasticity						
01 July 2022	8:00	8:50	3	2EL03m	Chair: Junichiro YOSHIMOTO		
				2EL03m	Speaker: Taro Toyozumi		Information theoretical approaches to model synaptic plasticity
2EL04m	Molecular mechanism of the central nervous system regeneration						
01 July 2022	8:00	8:50	4	2EL04m	Chair: Miho TERUNUMA		
				2EL04m	Speaker: Rieko Muramatsu		Molecular mechanism of the central nervous system regeneration
2EL05m	Computational psychiatry: understanding psychiatric disorders using data science and computational modeling						
01 July 2022	8:00	8:50	5	2EL05m	Chair: TADAHIRO Taniguchi		
				2EL05m	Speaker: Yuichi Yamashita		Computational psychiatry: understanding psychiatric disorders using data science and computational modeling
2EL06m	Chemical labeling of neurotransmitter receptors in live mouse brain						
01 July 2022	8:00	8:50	6	2EL06m	Chair: Michisuke YUZAKI		
				2EL06m	Speaker: Itaru Hamachi		Chemical labeling of neurotransmitter receptors in live mouse brain
2S01m	Balancing synapse plasticity and circuit homeostasis - from molecular mechanisms to physiological functions						
01 July 2022	9:00	11:00	1	2S01m	Chair: Yukiko GODA		
	9:05	9:28		2S01m-01	Speaker: Tara Keck		Synapse-specific homeostatic responses in mouse cortex
	9:28	9:51		2S01m-02	Speaker: Gina Turrigiano		A Bidirectional Switch in the Shank3 Phosphorylation State Enables Synaptic Scaling Up or Down
	9:51	10:14		2S01m-03	Speaker: Wickliffe Abraham		Astrocytes in the hippocampus: Adding space to time for metaplasticity
	10:14	10:37		2S01m-04	Speaker: Takayasu Mikuni		Imaging synaptic activity and molecular dynamics in single neurons in vivo
	10:37	11:00		2S01m-05	Speaker: Noam Ziv		Intrinsic synaptic dynamics and distribution scaling of synaptic sizes
2S02m	Metaverse and Neuroscience						
01 July 2022	9:00	11:00	2	2S02m-001	Chair: Kenji MATSUMOTO		
				2S02m-002	Chair: Takuya IBARAKI		
	9:10	9:30		2S02m-01	Speaker: Maki Sugimoto		Future Development of Human Sensing and Augmentation Technology in Metaverse
	9:30	9:50		2S02m-02	Speaker: Yoichi Miyawaki		Transformation of self in the metaverse and its neural basis
	9:50	10:10		2S02m-03	Speaker: Nanase Kobayashi		Metaverse and Psychiatry
	10:10	10:30		2S02m-04	Speaker: Naotaka Fujii		Reality Science
2S03m	Rethinking molecular mechanism of ALS/FTLD						
01 July 2022	9:00	11:00	3	2S03m-001	Chair: Shinsuke ISHIGAKI		
				2S03m-002	Chair: Hitomi TSUIJI		
	9:00	9:20		2S03m-01	Speaker: Shinsuke Ishigaki		Redefinition of FTLD based on FUS function
	9:20	9:45		2S03m-02	Speaker: Shuo-Chien Ling		Glial TDP-43 function in ALS/FTD
	9:45	10:05		2S03m-03	Speaker: Hitomi Tsujii		Abnormal distribution and function of the survival of motor neuron (SMN) protein in ALS
	10:05	10:30		2S03m-04	Speaker: Yun-Ru Ruby Chen		Investigation of pathogenic TDP-43 oligomers in neurodegenerative diseases
	10:30	11:00		2S03m-05	Speaker: Aaron D Gitler		TDP-43 represses cryptic exon inclusion in FTD/ALS gene UNC13A
2WD05m1	Wakate Dojo: Sensory Themes						
01 July 2022	9:00	10:00	5	2WD05m1	Chair: Yuuki FUJIWARA		
	9:00	9:15		2WD05m1-01	Speaker: Airi Nakayama		UNC-7/Innexin Regulates Transmission of Temperature Information during C. elegans Thermotaxis
	9:15	9:30		2WD05m1-02	Speaker: Kazuki Shiotani		Flavor discrimination task in free moving mice
	9:30	9:45		2WD05m1-03	Speaker: Takuro Ohashi		Species-specific neural responses of the auditory neurons in Drosophila
	9:45	10:00		2WD05m1-04	Speaker: Kazuki Tanaka		Effect of MAP2 loss on signal processing in the auditory peripheral system
2WD06m1	Wakate Dojo: Synapses and Networks						
01 July 2022	9:00	10:00	6	2WD06m1	Chair: Hiroshi KIYAMA		
	9:00	9:15		2WD06m1-01	Speaker: Akane Hatsuda		Transient activation of AMPK in response to neural activity promotes mitochondrial fission and dendrite formatio in hippocampal neurons.
	9:15	9:30		2WD06m1-02	Speaker: Junpei Matsubayashi		The expression of LOTUS, a neural circuit formation factor, is increased by BDNF and promotes nerve
	9:30	9:45		2WD06m1-03	Speaker: Takuya Kaneko		Position-independent sensory-motor matching in the zebrafish vagus system
	9:45	10:00		2WD06m1-04	Speaker: Xiyang Sun		Structural Embedding for Sensory Pathway based on Drosophila Adult
2WD07m1	Wakate Dojo: Synapses and Synaptic Plasticity						
01 July 2022	9:00	10:00	7	2WD07m1	Chair: Tsyuyoshi HATTORI		
	9:00	9:15		2WD07m1-01	Speaker: Jiro Osaka		Beat-Side transmembrane protein families regulate synaptic specificity in the Drosophila visual system
	9:15	9:30		2WD07m1-02	Speaker: Jeong-Kyu Han		Emerging Roles of JAK/STAT signaling pathway in the Brain and Behavior
	9:30	9:45		2WD07m1-03	Speaker: Yuri Atsumi		Spatiotemporal dynamics of CREB with cofactors regulate activity-dependent gene expression in human cortical neurons
	9:45	10:00		2WD07m1-04	Speaker: Koyo Shibayama		Development of a Novel Correlative Light and Electron Microscopy Technique for the Intracellular Ultrastructural Analysis in In Vivo Axons
2S08m	The insula and claustrum: from synapse to cognition						
01 July 2022	9:00	11:00	8	2S08m-001	Chair: Shinpei ISHIYAMA		
				2S08m-002	Chair: Hiroaki NORIMOTO		
	9:03	9:24		2S08m-01	Speaker: Lucina Qazi Uddin		The role of the insula in the salience network
	9:24	9:45		2S08m-02	Speaker: George J Augustine		A BOTTOM-UP APPROACH TO UNDERSTANDING THE CLAUSTRUM
	9:45	10:06		2S08m-03	Speaker: Sarah Stern		Regulation of complex feeding behaviors by insular cortex Nos1 neurons
	10:09	10:30		2S08m-04	Speaker: Shimpei Ishiyama		Tickling differentially modulates activity in the rat anterior insula
	10:30	10:51		2S08m-05	Speaker: Lorenz Fenk		On the brain of a sleeping dragon

2S09m Parallel and hierarchical neural mechanisms for adaptive and predictivebehavioral control						
01 July 2022	9:00	11:00	9	2S09m-001	Chair: Masayuki MATSUMOTO	
	9:04	9:23		2S09m-002	Chair: Hiroaki GOMI	
	9:23	9:42		2S09m-01	Speaker: Jun Morimoto	Hierarchical Humanoid Motor Learning
	9:42	10:01		2S09m-02	Speaker: Hiroaki Gomi	Modulation and representation of implicit sensorimotor loops
	10:01	10:20		2S09m-03	Speaker: Mengxi Yun	Distinct roles of the orbitofrontal cortex, ventral striatum, and midbrain dopamine neurons of non-human primate in economic decision-making
	10:20	10:39		2S09m-04	Speaker: Eiji Uchibe	Asynchronous competition and cooperation between model-based and model-free reinforcement learning system
	10:39	10:58		2S09m-05	Speaker: Takatoshi Hikida	Parallel neural network mechanisms of nucleus accumbens in flexible behavior
				2S09m-06	Speaker: Kaoru Takakusaki	Posture-Gait Control by the Basal Ganglia with reference to Parkinson's disease
2S10m Optical scientists × neuroscientists: co-creation of new paradigm of opto-neural science						
01 July 2022	9:00	11:00	10	2S10m-001	Chair: Hideharu MIKAMI	
	9:00	9:18		2S10m-002	Chair: Masaaki SATO	
	9:18	9:48		2S10m-01	Speaker: Hideharu Mikami	High-speed fluorescence microscopy for future neuroscience
	9:48	10:12		2S10m-02	Speaker: Alipasha Vaziri	Towards cortex-wide volumetric recording of neuroactivity at cellular resolution
	10:12	10:36		2S10m-03	Speaker: Bernd Kuhn	Voltage imaging of Purkinje neuron dendrites in awake mice
	10:36	11:00		2S10m-04	Speaker: Taro Ichimura	Trans-scale scope for dynamic observation of all cells in a centimeter field of view
				2S10m-05	Speaker: Hideji Murakoshi	Optogenetic manipulation of dendritic spines in neurons
2004m2 Learning Theory / Neural Network Modeling and Artificial Intelligence 1						
01 July 2022	10:00	11:00	4	2004m2	Chair: Masanori SHIMONO	
	10:00	10:15		2004m2-01	Speaker: Munenori Takaku	Hierarchical spatial information learning in a gated prefrontal-thalamo-hippocampal circuit model
	10:15	10:30		2004m2-02	Speaker: Muhammad Febrian Rachmadi	Development of a Data-driven Prediction Model for the Evolution of White Matter Hyperintensities using Deep Learning: Progress and Challenges
	10:30	10:45		2004m2-03	Speaker: Kai Miyazaki	Noise tolerance and information spreading in MEG source estimation using a structured Bayesian model with hierarchical prior
	10:45	11:00		2004m2-04	Speaker: Shunsuke Kamiya	Control Cost for State Transitions in Stochastic Neural Systems
2WD05m2 Wakate Dojo: Learning, Memory and Plasticity						
01 July 2022	10:00	11:00	5	2WD05m2	Chair: Koji YAMANAKA	
	10:00	10:15		2WD05m2-01	Speaker: Keisuke Imoto	An identification of GABAergic neurons that regulate an experience-dependent song preference in Drosophila melanogaster.
	10:15	10:30		2WD05m2-02	Speaker: Yukino Shibata	Neurogenetic mechanism underlying individuality in vocal learning in F1 hybrid songbirds
	10:30	10:45		2WD05m2-03	Speaker: Hongyang Wu	Visualization of individual active zone scaffold remodeling in the fly brain
	10:45	11:00		2WD05m2-04	Speaker: Yuuki Onishi	Neuropeptide NLP-47 and its receptor GNRR-1 accelerate forgetting of olfactory memory in C. elegans
2WD06m2 Wakate Dojo: Neural Disorders Causing Movement Disorders						
01 July 2022	10:00	11:00	6	2WD06m2	Chair: Hirohide TAKEBAYASHI	
	10:00	10:15		2WD06m2-01	Speaker: Ryohei Ogawa	Generation of dopaminergic neuron-selective BH4-deficient mice and analysis of the etiology of dopa-responsive dystonia
	10:15	10:30		2WD06m2-02	Speaker: Jun Ueda	Inhibition of neuronal activity with perampal blocks α -synuclein transmission in Parkinson's disease models
	10:30	10:45		2WD06m2-03	Speaker: Akito Hattori	The influence of I2020T mutant LRRK2, the causal molecule of familial Parkinson's disease, on intracellular membrane trafficking
	10:45	11:00		2WD06m2-04	Speaker: Kosuke Kamemura	Extracellular role and secretion mechanism of VAP, an ALS-related ER-resident protein
2WD07m2 Wakate Dojo: Disorder Modeling						
01 July 2022	10:00	11:00	7	2WD07m2	Chair: Kazunobu SAWAMOTO	
	10:00	10:15		2WD07m2-01	Speaker: Mahiro Kimura	Analysis of biosynthetic mechanisms of neopterin as an inflammatory marker in the nervous and immune system
	10:15	10:30		2WD07m2-02	Speaker: Mohieldin M Youssef	Deciphering the role of Tob in the brain: An insight into stress coping machinery
	10:30	10:45		2WD07m2-03	Speaker: Camila Fernandez Zapata	Differential compartmentalization of myeloid cell phenotypes and responses in Alzheimer's disease.
	10:45	11:00		2WD07m2-04	Speaker: Tsukika Sato	Pathophysiological model using iPSC-derived cortical neurons from FTD patients with C9ORF72 repeat expansion
2LS02 In vivo imaging of neuronal activity						
01 July 2022	12:00	12:50	2	2LS02	Chair: Tsurumune ATSUSHI	
				2LS02	Speaker: Yasunori Hayashi	In vivo imaging of neuronal activity
2LS03 Beauty is truth						
01 July 2022	12:00	12:50	3	2LS03	Chair: Kenji TANAKA	
				2LS03	Speaker: Kenji Tanaka	Beauty is truth
2LS05 Elucidation of the pathophysiology of psychiatric disorders using spatial profiling technology						
01 July 2022	12:00	12:50	5	2LS05	Chair: Yasuto KUNII	
				2LS05	Speaker: Ken-ichiro Kubo	Elucidation of the pathophysiology of psychiatric disorders using spatial profiling technology
2LS06 Round Table; How can neuroscience contribute to the real world and industry						
01 July 2022	12:00	12:50	6	2LS06	Chair: Mitsuaki TAKEMI	
				2LS06	Speaker: Takuya Ibaraki	Round Table; How can neuroscience contribute to the real world and industry
				2LS06	Speaker: Ayaka Kato	
				2LS06	Speaker: Daichi Konno	
2LS08 Image, Manipulate, and Convert - Photonics at the Frontiers of Neuroscience						
01 July 2022	12:00	12:50	8	2LS08	Chair: Takeo KATSUKI	
				2LS08	Speaker: Fumi Kubo	Image, Manipulate, and Convert - Photonics at the Frontiers of Neuroscience
2LS09 "Brain Science x AI" : BCI-based Image Classification and Potential for Social Implementation						
01 July 2022	12:00	12:50	9	2LS09	Chair / Speaker: Takahiro KUSUNOKI	
				2LS09	Chair / Speaker: Leon Y. Deouell	"Brain Science x AI" : BCI-based Image Classification and Potential for Social Implementation
2LS10 Propose a near-future treatment strategy for Parkinson's disease						
01 July 2022	12:00	12:50	10	2LS10	Chair: Ryosuke TAKAHASHI	
				2LS10	Speaker: Nobutaka Hattori	Propose a near-future treatment strategy for Parkinson's disease
2PL01 From the lab bench to clinical trials for a regeneration enhancing therapy for spinal cord injury						
01 July 2022	13:00	14:00	1	2PL01	Chair: Kohtaro TAKEI	
				2PL01	Speaker: Martin E. Schwab	From the lab bench to clinical trials for a regeneration enhancing therapy for spinal cord injury
2S03a Neurodegenerative/neuropsychiatric diseases caused by nucleic acidrepeat expansion -from disease mechanism to future therapy-						
01 July 2022	14:00	16:00	3	2S03a	Chair: Kohji MORI	
	14:00	14:24		2S03a-01	Speaker: Yuzo Fujino	Elucidation of regulatory mechanisms of RAN translation using C9-ALS/FTD fly model
	14:24	14:48		2S03a-02	Speaker: Tomonori Shibata	Alleviation of RNA toxicity by a small molecule targeting UGGAA repeat in spinocerebellar ataxia type 31
	14:48	15:12		2S03a-03	Speaker: Yoshihiro Nihei	DNA damage repair impairment in C9orf72-FTD/ALS
	15:12	15:36		2S03a-04	Speaker: Kohsuke Kanekura	Order controls disordered droplets: structure-function relationships in C9ORF72-derived poly(PR)
	15:36	16:00		2S03a-05	Speaker: Norifumi Shioda	The cellular functions of G-quadruplex in neurological diseases
2WD04a1 Wakate Dojo: Simulation Themes						
01 July 2022	14:00	15:00	4	2WD04a1	Chair: Itsuki AJIOKA	
	14:00	14:15		2WD04a1-01	Speaker: Naoyuki Okamoto	Inferring the relationship between actions and observations in a dynamic sensorimotor task in humans
	14:15	14:30		2WD04a1-02	Speaker: Yuji Okano	Discovery of a new biomarker of glioblastoma multiforme by a machine learning model
	14:30	14:45		2WD04a1-03	Speaker: Daiti Kiyooka	Quantifying the cost of maintaining a brain state based on stochastic thermodynamics
	14:45	15:00		2WD04a1-04	Speaker: Popov Nikolay	Dynamic connectivity of cerebellum in social anxiety disorder (SAD)
2WD05a1 Wakate Dojo: Optical Control and Technology						
01 July 2022	14:00	15:00	5	2WD05a1	Chair: Takashi KITAMURA	
	14:00	14:15		2WD05a1-01	Speaker: Hayato Yamanouchi	The piezo neurons involve in the stability of the male copulation position in Drosophila melanogaster
	14:15	14:30		2WD05a1-02	Speaker: Kouki Matsuda	Whole brain evaluation of topologies of microconnectome
	14:30	14:45		2WD05a1-03	Speaker: Gohma Aoi	Refractive indexes estimation of living tissues using spherical aberration correction
	14:45	15:00		2WD05a1-04	Speaker: Mitsuhiro Oishi	Optogenetic manipulation of mural cells and oligodendrocyte precursor cells using the NG2 promoter
2WD06a1 Wakate Dojo: Therapeutic Development						
01 July 2022	14:00	15:00	6	2WD06a1	Chair: Hiroaki WAKE	
	14:00	14:15		2WD06a1-01	Speaker: Tomotaka Shiraishi	Activation of Rab9-dependent alternative autophagy is neuroprotective in VPS35 D620N patient-derived iNeuron
	14:15	14:30		2WD06a1-02	CANCELLED	Development of therapeutic agents to restore brain function in patients of comorbid pathology of dementia and stroke
	14:30	14:45		2WD06a1-03	Speaker: Rika Takaba	Neural bases underlying the antidepressant effect of serotonin 5-HT2A receptor agonists in mice

	14:45	15:00		2WD06a1-04	Speaker: Su Su Lei Mon	A novel structure of oligonucleotides administered intracerebroventricularly improves efficacy and alleviates acute toxicity in mice
2WD07a1	Wakate Dojo: Sensory and Movement Themes					
01 July 2022	14:00	15:00	7	2WD07a1	Chair: Takahiro KATO	
	14:00	14:15		2WD07a1-01	Speaker: Daigo Okada	Fluctuation of auditory steady-state response with ongoing EEG oscillation
	14:15	14:30		2WD07a1-02	Speaker: Akihito Maruya	Feature tracking and geometrical priors counteract illusory non-rigidities from outputs of motion-energy cells
	14:30	14:45		2WD07a1-03	Speaker: Yi-Yuan Huang	Hierarchical prediction errors in crossmodal sequence processing: an EEG functional connectivity study
	14:45	15:00		2WD07a1-04	Speaker: Sai Sun	Alpha-dependent oscillatory coupling accounts for the inter-individual difference in spontaneous motor tempo in context-dependent adaptive changes
2008a1	Neuronal Death and Apoptosis / Axon/Dendrite Growth and Circuit Formation					
01 July 2022	14:00	15:00	8	2008a1	Chair: Sumiko KIRYU-SEO	
	14:00	14:15		2008a1-01	Speaker: Atsushi Sugie	Analysis of the mechanism underlying axonal degeneration via neuron-neuron and neuron-glia interactions
	14:15	14:30		2008a1-02	Speaker: Tomoya Ozaki	Chondroitin sulfate-binding peptide rescues the dystrophic endballs and improves spinal cord injury-induced dysmotility
	14:30	14:45		2008a1-03	Speaker: Masayasu Okada	JNK-dependent phosphorylation sites of GAP-43 in the growing axons of rodents and human
	14:45	15:00		2008a1-04	Speaker: Bhavana Muralidharan	Chromatin regulation of human cortical development by LSD1
2009a1	Neural Network Modeling and Artificial Intelligence / Others					
01 July 2022	14:00	15:00	9	2009a1	Chair: Tomoki KURIKAWA	
	14:00	14:15		2009a1-01	Speaker: Carlos Enrique Gutierrez	Spiking neural networks deployment on a graph database. A new approach for brain modeling and simulation.
	14:15	14:30		2009a1-02	Speaker: Hiroto Tamura	Memory-Saving Time-Series Anomaly Detection Using Mahalanobis Distance of Reservoir States
	14:30	14:45		2009a1-03	Speaker: Shoko Nagasaka	Analysis of ResNet texture representation using Portilla-Simioncelli statistics
	14:45	15:00		2009a1-04	Speaker: Hiroki Mori	Tool embodiment via Deep predictive active attention: Emergence of an attention module for "end-effector" regardless of a robotic body or a tool.
2010a1	Neurogenesis and Gliogenesis 1					
01 July 2022	14:00	15:00	10	2010a1	Chair: Takeshi KAWAUCHI	
	14:00	14:15		2010a1-01	Speaker: Hitoshi Gotoh	Localization of glycogen granules in the radial glial endfeet and their metabolism through lysosomal degradation regulates radial glial cell differentiation
	14:15	14:30		2010a1-02	Speaker: Min Zhang	Development of microcolumns based on radial glial fibers during corticogenesis
	14:30	14:45		2010a1-03	Speaker: Koji Oishi	A possible interaction between the Golgi apparatus and gliogenesis in the developing neocortex
	14:45	15:00		2010a1-04	Speaker: Yohei Shinmyo	A positive feedback loop of FGF signaling induces astrocyte expansion and folding of the cerebral cortex in gyrencephalic animals
2AL-01a	Metabolomic and pharmacologic analyses of brain substances associated with sleep pressure in mice					
01 July 2022	14:30	15:30	1	2AL-01a	Chair: Toshihisa OHTSUKA	
				2AL-01a	Speaker: Haruka Suzuki-Abe	Metabolomic and pharmacologic analyses of brain substances associated with sleep pressure in mice
2WD04a2	Wakate Dojo: Behavior Foundations					
01 July 2022	15:00	16:00	4	2WD04a2	Chair: Haruhiko BITO	
	15:00	15:15		2WD04a2-01	Speaker: Tzu-Ting Huang	Genetic mechanisms of Caenorhabditis elegans isothermal tracking behavior
	15:15	15:30		2WD04a2-02	Speaker: Angus Leung	Applying and testing the integrated information theory of consciousness in flies
	15:30	15:45		2WD04a2-03	Speaker: Shinya Nakai	Neural manifold representing spatial information in subiculum
	15:45	16:00		2WD04a2-04	Speaker: Daniel Cory Gallagher	Effects of Left Inferior Prefrontal Cortex Anodal Stimulation on Second Language Acquisition
2WD05a2	Wakate Dojo: Glia and Disorders					
01 July 2022	15:00	16:00	5	2WD05a2	Chair: Kensuke IKENAKA	
	15:00	15:15		2WD05a2-01	Speaker: Mai Horiuchi	Oligodendrocyte-specific overexpression of mutant TDP-43 induces motor dysfunction in mice
	15:15	15:30		2WD05a2-02	Speaker: Aoi Fukuchi	MARK2 modulates glial immune responses and neurodegeneration
	15:30	15:45		2WD05a2-03	Speaker: Hideyuki Nakashima	Possible involvement of endogenous DNA-induced microglial activation in the pathogenesis of Rett syndrome
	15:45	16:00		2WD05a2-04	Speaker: MEIHUA JIN	Tau activates microglia via the PQBP1-cGAS-STING pathway to promote brain inflammation
2WD06a2	Wakate Dojo: Movement Themes					
01 July 2022	15:00	16:00	6	2WD06a2	Chair: Kenji TANAKA	
	15:00	15:15		2WD06a2-01	Speaker: Ryota Nishizono	Professional drivers modulate blink timings depending on racing performance
	15:15	15:30		2WD06a2-02	Speaker: Takumi Sugioaka	Kinetics and neural circuit mechanisms of a fine postural control in larval zebrafish
	15:30	15:45		2WD06a2-03	Speaker: Muhammad Ali Haider Awan	Change in behavioral context alters the population of neurons representing the behavioral information in primate medial prefrontal cortex
	15:45	16:00		2WD06a2-04	Speaker: Mohamed M.K. El Tabbal	Grasping with the tongue: Cerebellar control of adaptive tongue kinematics in mice
2WD07a2	Wakate Dojo: Disorder Model					
01 July 2022	15:00	16:00	7	2WD07a2	Chair: Takashi SHICHITA	
	15:00	15:15		2WD07a2-01	Speaker: Katherine R Meckel	Microbiome-derived short-chain fatty acid metabolites modulate transcriptional homeostasis and cocaine-seeking after abstinence.
	15:15	15:30		2WD07a2-02	Speaker: Yasutaka Mukai	Physiological function of prostaglandin E2-induced sustained suppression of activity of noradrenergic neurons in the locus coeruleus
	15:30	15:45		2WD07a2-03	Speaker: Takumi Nakamura	Functional analyses of a histone methyltransferase related to neurodevelopmental disorders
	15:45	16:00		2WD07a2-04	Speaker: Aika Kosuge	Involvement of spleen-derived immune response in the depression-like behaviors induced by chronic social defeat stress.
2AL-01e	Molecular mechanisms of formation and propagation of pathological proteins in neurodegenerative diseases					
01 July 2022	15:30	16:30	1	2AL-01e	Chair: Shigeo OKABE	
				2AL-01e	Speaker: Masato Hasegawa	Molecular mechanisms of formation and propagation of pathological proteins in neurodegenerative diseases
2S02e	Towards Cold Brain Science Underpinning Artificial Hibernation Technology					
01 July 2022	16:10	18:10	2	2S02e-001	Chair: Takeshi SAKURAI	
				2S02e-002	Chair: Kazunari MIYAMICHI	
	16:10	16:42		2S02e-01	Speaker: Arisa Hirano	Dynamics and function of the circadian oscillator during hibernation-like state in mice
	16:42	17:04		2S02e-02	Speaker: Naohiro Kon	Temperature compensation of circadian clock - Regulation of biochemical oscillation by cold Ca ²⁺ signaling-
	17:04	17:26		2S02e-03	Speaker: Thato Mary Mokhothu	Substantial suppression in the progression of the medial temporal lobe epilepsy after induction of the hibernation like state
	17:26	17:48		2S02e-04	Speaker: Kazunari Miyamichi	Life Sage- and Stress-induced Mode Shift of Neuroendocrine Functions in Mice
	17:48	18:10		2S02e-05	Speaker: Genshiro A. Sunagawa	Can hibernation save lives in emergency medicine? Designing acute disease management via brain-initiated actin hypometabolism.
2S03e	Inducing lifelong plasticity (iPlasticity) by brain rejuvenation: elucidation and manipulation of critical period mechanisms					
01 July 2022	16:10	18:10	3	2S03e-001	Chair: Takuya TAKAHASHI	
				2S03e-002	Chair: Mariko MIYATA	
	16:10	16:34		2S03e-01	Speaker: Masanobu Kano	Activity-dependent regulation of developmental synapse pruning in the cerebellum
	16:34	16:58		2S03e-02	Speaker: Kenichi Ohki	A modular strategy for the development of hierarchical networks in mouse visual system
	16:58	17:22		2S03e-03	Speaker: Mariko Miyata	Distinct transmitter release kinetics from surviving and eliminating presynaptic terminals
	17:22	17:46		2S03e-04	Speaker: Takao Hensch	Oscillatory signature of critical period plasticity
	17:46	18:10		2S03e-05	Speaker: Takuya Takahashi	Visualization and pharmacological manipulation of synaptic plasticity in living human brain
2S04e	Optical approaches to temporal transformations of brain information representations: from behavior to synapses.					
01 July 2022	16:10	18:10	4	2S04e-001	Chair: Daisuke MIYAMOTO	
				2S04e-002	Chair: Akihiro GOTO	
	16:10	16:34		2S04e-01	Speaker: Akihiro Goto	A new optogenetic tool for identifying the time window of synaptic plasticity during memory consolidation.
	16:34	16:58		2S04e-02	Speaker: Takashi Yamaguchi	Hormonal regulation of limbic-hypothalamic circuits for social behaviors in female mice
	16:58	17:22		2S04e-03	Speaker: Dan Ohtan Wang	Reading m6A RNA modification signals in neurons and at the synapses
	17:22	17:46		2S04e-04	Speaker: Bong-Kiun Kaang	Dynamic synaptic engram
	17:46	18:10		2S04e-05	Speaker: Kaoru Inokuchi	Optical approaches to activities and functions of the idling brain
2S05e	Generating cell types in cortical evolution					
01 July 2022	16:10	18:10	5	2S05e-001	Chair: Pei-shan HOU	
				2S05e-002	Chair: Takuma KUMAMOTO	
	16:10	16:34		2S05e-01	Speaker: Takuma Kumamoto	Analysis of the timing and distribution of glial cells in the developing chick pallium
	16:34	16:58		2S05e-02	Speaker: Gwenvael Le Dreau	Principles of cortical neurogenesis in the chick hyperpallium
	16:58	17:22		2S05e-03	Speaker: Pei-Shan Hou	The role of DACH1 in human cortical development revealed by ESC-derived neural populations and cortical organoids

	17:22	17:46		2S05e-04	Speaker: Jin-Wu Tsai		The Long Journey to a Folding Brain: Multiple Roles of Microtubule- and Dynein-Associated Proteins in Neuronal Migration and Disorders
	17:46	18:10		2S05e-05	Speaker: Ikuo K. Suzuki		Human-specific genes regulating cortical development
2S06e	Reconstruction of human sciences, based on decoding of emotional information						
01 July 2022	16:10	18:10	6	2S06e-001	Chair: Junichi CHIKAZOE		
				2S06e-002	Chair: Tomohiro ISHIZU		
	16:10	16:30		2S06e-01	Speaker: Alan Cowen		Deep learning reveals what emotional expressions mean to people in different cultures
	16:30	16:50		2S06e-02	Speaker: Adam Keith Anderson		Emotional objectivity: Neural coding of perceptual representations of affect and their function in the human brain
	16:50	17:10		2S06e-03	Speaker: Tomohiro Ishizu		Empirical studies on the negatively valenced aesthetic experience
	17:10	17:30		2S06e-04	Speaker: Yuri Terasawa		Emotional awareness and interoception in alexithymia
	17:30	17:50		2S06e-05	Speaker: Tatsuya Daikoku		Neural and computational understanding of musical emotion and the creativity
	17:50	18:10		2S06e-06	Speaker: Junichi Chikazoe		Modeling sensory-to-value transformation using neural networks
2S07e	New tools to target the endocannabinoid system for therapeutic benefit						
01 July 2022	16:10	18:10	7	2S07e	Chair: Bogna Marta IGNATOWSKA-JANKOWSKA		
	16:10	16:40		2S07e-01	Speaker: Ethan Budd Russo		Cannabigerol, its pharmacology and clinical promise.
	16:40	17:10		2S07e-02	Speaker: Katarzyna Starowicz		Revealing Potions: Phytocannabinoids in Osteoarthritis Treatment
	17:10	17:40		2S07e-03	Speaker: Sylvia Fitting		Neuroprotective Potential of Endocannabinoids Against HIV-1 Tat Toxicity
	17:40	18:10		2S07e-04	Speaker: Bogna Marta Ignatowska-Jankowska		Distinct behavioral phenotypes induced by endocannabinoid modulation in high-precision 3D motion capture of freely moving mice
2BPL01	The genetics and epigenetics of Rett Syndrome						
01 July 2022	16:30	17:30	1	2BPL01	Chair: Hideyuki OKANO		
				2BPL01	Speaker: Adrian Peter Bird		The genetics and epigenetics of Rett Syndrome
3EL02m	遺伝統計学の世界へようこそ						
02 July 2022	8:00	8:50	2	3EL02m	Chair: Norio OZAKI		
				3EL02m	Speaker: Yukinori Okada		遺伝統計学の世界へようこそ
3EL03m	Diverse function of microglia in glial-neuronal complexes						
02 July 2022	8:00	8:50	3	3EL03m	Chair: Schuichi KOIZUMI		
				3EL03m	Speaker: Ryuta Koyama		Diverse function of microglia in glial-neuronal complexes
3EL04m	Simulation neuroscience: a new kind of neuroscience?						
02 July 2022	8:00	8:50	4	3EL04m	Chair: Hayaru SHOUNO		
				3EL04m	Speaker: Tadashi Yamazaki		Simulation neuroscience: a new kind of neuroscience?
3EL05m	Deciphering brain information dynamics through probing of Ca²⁺ and Ca²⁺ signaling						
02 July 2022	8:00	8:50	5	3EL05m	Chair: Takeharu NAGAI		
				3EL05m	Speaker: Haruhiko Bitou		Deciphering brain information dynamics through probing of Ca ²⁺ and Ca ²⁺ signaling
3S01m	Novel Aspects of Hippocampal Function: Molecules, Cells and Circuits						
02 July 2022	9:00	11:00	1	3S01m	Chair: Thomas J. MCHUGH		
	9:00	9:25		3S01m-01	Speaker: Mazen Kheirbek		Population dynamics underlying associative learning in the dorsal and ventral hippocampus
	9:25	9:50		3S01m-02	Speaker: Hechen Bao		Dysregulation of hippocampal adult-born neurons disrupts a brain-wide network for spatial memory
	9:50	10:15		3S01m-03	Speaker: Ted Abel		Endoplasmic Reticulum Chaperone Genes Encode Effectors of Long-Term Memory
	10:15	10:40		3S01m-04	Speaker: C Justin Lee		Astrocytes Render Memory Flexible by Releasing D-Serine and Regulating NMDA Receptor Tone in the Hippocampus
	10:40	11:00		3S01m-05	Speaker: Thomas J. McHugh		The role of noncanonical hippocampal circuits in memory
3S02m	Neuroinflammation in dementia and neurodegenerative diseases: understanding brain-systemic interaction for therapeutics						
02 July 2022	9:00	11:00	2	3S02m-001	Chair: Koji YAMANAKA		
				3S02m-002	Chair: Tatsuke TOMITA		
	9:00	9:24		3S02m-01	Speaker: Okiru Komine		Alterations of microglial heterogeneity and functions in amyotrophic lateral sclerosis model mice
	9:24	9:48		3S02m-02	Speaker: Takashi Saito		Roles of microglial inflammatory platforms in AD pathogenesis
	9:48	10:12		3S02m-03	Speaker: Yuhei Takado		Brain energy metabolism and glial cells in dementia
	10:12	10:36		3S02m-04	Speaker: Yukiko Hori		Photooxygenation as a new therapeutic strategy against Alzheimer disease
	10:36	11:00		3S02m-05	Speaker: Sumiko Kiryu-Seo		The plasticity of the axon initial segment in neurodegeneration and neuroinflammation
3S03m	Activity-dependent development of sensory and motor circuits						
02 July 2022	9:00	11:00	3	3S03m-001	Chair: Takeshi IMAI		
				3S03m-002	Chair: Marla B. FELLER		
	9:00	9:24		3S03m-01	Speaker: Takeshi Imai Imai		Lateral inhibition signals for intraneuronal synaptic competitions
	9:24	9:48		3S03m-02	Speaker: Takuji Iwasato		Dendritic refinement of layer 4 neurons in the neonatal barrel cortex
	9:48	10:12		3S03m-03	Speaker: Keisuke Yonehara		Retinal direction selectivity specified by homeobox gene Vax2
	10:12	10:36		3S03m-04	Speaker: Marla B. Feller		A role for retinal waves in the establishment of direction selectivity
	10:36	11:00		3S03m-05	Speaker: XiangSunZe Zeng		Molecular and cellular mechanisms underlying the emergence of spontaneous patterned activity crucial for moto development in Drosophila
3S04m1	Alzheimer's Disease and Dementia 1						
02 July 2022	9:00	10:00	4	3S04m1	Chair: Tomohiro UMEDA		
	9:00	9:15		3S04m1-01	Speaker: Tomoharu Kuboyama		HDAC3 inhibition ameliorates dystrophic axons and memory function via secretion of IGFBP6 from microglia in a transgenic mouse model of Alzheimer's disease
	9:15	9:30		3S04m1-02	Speaker: Tomohiro Umeda		Oligomer-Targeting Prevention of Neurodegenerative Dementia by Intranasal Rifampicin and Resveratrol Combination
	9:30	9:45		3S04m1-03	Speaker: Sayako Katada		miRNAs secreted from choroid plexus plays a critical role for the maintenance of neurogenesis in the aged brain
	9:45	10:00		3S04m1-04	Speaker: Yusaku Nakabeppu		MTH1 and OGG1 suppress microgliosis, while MUTYH actively contributes to microglial activation and impaired neurogenesis in the pathogenesis of Alzheimer's disease
3S05m1	Learning, Memory and Plasticity 1						
02 July 2022	9:00	10:00	5	3S05m1	Chair: Atsushi KASAI		
	9:00	9:15		3S05m1-01	Speaker: Kyogo Kobayashi		Calcium imaging of mouse hippocampal CA1 cells during a contextual fear conditioning paradigm
	9:15	9:30		3S05m1-02	Speaker: Hirohito Esaki		The involvement of the medial prefrontal cortex-perirhinal cortex pathway in the nicotine-induced enhancement of object recognition memory in mice
	9:30	9:45		3S05m1-03	Speaker: Yoshinori Aso		Neural circuit mechanisms of second-order conditioning in Drosophila
	9:45	10:00		3S05m1-04	Speaker: Ryang Kim		Social transmission of food finding: a novel task for new knowledge learning without firsthand experience in mice
3S06m1	Appetitive and Aversive Learning						
02 July 2022	9:00	10:00	6	3S06m1	Chair: Yu OHMURA		
	9:00	9:15		3S06m1-01	Speaker: Atsushi Noritake		Do medial prefrontal neurons encode errors in the prediction of others' reward?
	9:15	9:30		3S06m1-02	Speaker: Daisuke Tsuboi		Dopamine drives neuronal excitability via KCNQ channel phosphorylation for reward behavior
	9:30	9:45		3S06m1-03	Speaker: Kenji Morita		Possible functional advantage of combining different state representations in the two cortico-basal ganglia
	9:45	10:00		3S06m1-04	Speaker: Hiroshi Makino		Arithmetic value representation for hierarchical behavior composition
3S07m1	Social Behavior 2						
02 July 2022	9:00	10:00	7	3S07m1	Chair: Taiju AMANO		
	9:00	9:15		3S07m1-01	Speaker: Takahiro Tsuji		Oral supplementation with L-carnosine attenuates social recognition deficits in CD157KO mice via oxytocin release
	9:15	9:30		3S07m1-02	Speaker: Yukiko Ogura		Behavioral and neuro-cognitive bases for the emergence of a shared reality through social interaction
3S08m	Integrating emotion and cognition in the brain						
02 July 2022	9:00	11:00	8	3S08m-001	Chair: Joshua Patrick JOHANSEN		
				3S08m-002	Chair: Rony PAZ		
	9:00	9:20		3S08m-01	Speaker: Rony Paz		演題枠
	9:20	9:40		3S08m-02	Speaker: Mark Andermann		The interplay of anxiety and hunger in anorexia nervosa<u></u>
	9:40	10:00		3S08m-03	Speaker: Dean Mobbs		演題枠
	10:00	10:20		3S08m-04	Speaker: Jelena Radulovic		Cholinergic Mechanisms of Retrieval-Based Generalization of Aversive Memories
	10:20	10:40		3S08m-05	Speaker: Kae Nakamura		The primate model of decision making under stress
	10:40	11:00		3S08m-06	Speaker: Joshua Johansen		Prefrontal cortex neurons encode an internal model for emotional inference
3S09m	New technologies of "Singularity Biology" for elucidation of neurological diseases.						
02 July 2022	9:00	11:00	9	3S09m-001	Chair: Hiroko BANNAI		
				3S09m-002	Chair: Naruhiko SAHARA		
	9:00	9:22		3S09m-01	Speaker: TAKEHARU NAGAI		One-shot imaging of multi-million cells at micrometer spatial resolution using the Trans-Scale-Scope, AMATERA -Conception of a novel discipline: outlier science-

	9:22	9:44		3S09m-02	Speaker: Keiko Muguruma		Analysis and control of singularity structures triggering epileptic seizure in human iPSC derived brain organoid
	9:44	10:06		3S09m-03	Speaker: Naruhiko Sahara		Investigating phase transition of tau protein as a singularity point of neurodegenerative diseases
	10:06	10:28		3S09m-04	Speaker: Maiko Ono		In vivo visualization of propagating α -synuclein pathologies in mouse and marmoset models by a multimodal PE probe
	10:28	10:50		3S09m-05	Speaker: Nicholas M Kanaan		Modulation of Tau Liquid-Liquid Phase Separation by Disease-Related Modifications and Interacting Proteins
3S10m	Mechanisms for Subjective Experience						
02 July 2022	9:00	11:00	10	3S10m-001	Chair: Chris Hakwan LAU		
				3S10m-002	Chair: Rebecca KEOGH		
	9:00	9:10		3S10m-01	Speaker: Hakwan Lau		General introduction: Why we need new paradigms for studying consciousness
	9:10	9:32		3S10m-02	Speaker: Tadashi Isa		Neural circuits and cognitive capacity of blindsight macaques
	9:32	9:54		3S10m-03	Speaker: Rebecca Keogh		Measuring aphantasia and its impact on related cognitive functions
	9:54	10:16		3S10m-04	Speaker: Li Zhaoqing		Peripheral vision in the central-peripheral dichotomy
	10:16	10:38		3S10m-05	Speaker: Kentaro Miyamoto		Social prospective metacognition of perceptual experience for prediction of future performance in primates
	10:38	11:00		3S10m-06	Speaker: Mitsuo Kawato		Cognitive reality monitoring neural networks for reinforcement learning
3004m2	Neurodegenerative Disorders 1						
02 July 2022	10:00	11:00	4	3004m2	Chair: Kensuke IKENAKA		
	10:00	10:15		3004m2-01	Speaker: Kensuke Ikenaka		Phospholipid A triggers the formation of Parkinson's disease-like fibrils of alpha-synuclein
	10:15	10:30		3004m2-02	Speaker: Kohji Fukunaga		Fatty acid-binding proteins 5/7 mediate the oligodendrocyte injury in a multiple sclerosis mouse model
	10:30	10:45		3004m2-03	Speaker: Ami Kaneko		Analysis of the mechanism of REM sleep focusing on behavior disorders associated with Parkinson's disease
	10:45	11:00		3004m2-04	Speaker: Ichiro Kawahata		Impact of fatty acid-binding protein and dopamine receptor in α -synuclein propagation and development of disease-modifying drug for α -synucleinopathy
3005m2	Synaptic Plasticity / Posttranslational Modulation and Proteolysis						
02 July 2022	10:00	11:00	5	3005m2	Chair: Nobuhiko YAMAMOTO		
	10:00	10:15		3005m2-01	Speaker: Dmitri Rusakov		Plasticity of synaptic fidelity in the intact brain
	10:15	10:30		3005m2-02	Speaker: Natsumi Ageta-Ishihara		Activity-triggered extension of endoplasmic reticulum into dendritic spines as a synaptic basis of memory consolidation
	10:30	10:45		3005m2-03	Speaker: Yuuki Fujiwara		Identification of a novel protein-uptake pathway in lysosomes required for neuromuscular homeostasis
	10:45	11:00		3005m2-04	Speaker: Masahiko Takahashi		USP10 inhibits aberrant cytoplasmic aggregation of TDP-43 by promoting stress granule clearance
3006m2	Others						
02 July 2022	10:00	11:00	6	3006m2	Chair: Hideki HIDA		
	10:00	10:15		3006m2-01	Speaker: Shunji Nakano		A Non-Cell Autonomous Action of cGMP within Multi-Neuronal Network Regulates a C. elegans Navigation
	10:15	10:30		3006m2-02	Speaker: Ryota Nakahama		The tyrosine capsid mutations on retrograde adeno-associated virus enhance gene transduction efficiency
	10:30	10:45		3006m2-03	Speaker: Yasunao Kamikawa		Molecular mechanism of nuclear envelope stress response mediated by ER-resident transcription factor OASIS in astrocytes
	10:45	11:00		3006m2-04	Speaker: Kotaro Furusawa		Molecular control of developmental neuronal remodeling in Drosophila neurons
3007m2	Vision 1						
02 July 2022	10:00	11:00	7	3007m2	Chair: Ayako ISHIKAWA		
	10:00	10:15		3007m2-01	Speaker: Tomoyuki Namima		High-density recording reveals functional domains of shapes and textures across laminae in macaque V4
	10:15	10:30		3007m2-02	Speaker: Motofumi Shishikura		Population responses of monkey V4 neurons correlate with human figure-ground perception
	10:30	10:45		3007m2-03	Speaker: Minami Ito		Material perception associating haptic and visual inspections in non-human primate subjects
	10:45	11:00		3007m2-04	Speaker: Yasuko Sugase-Miyamoto		Correlations between receptive-fields of face-responsive neurons in monkey area TE and their coded facial information
3LS02	ZEISS technology expands possibilities for neuroscience research: update and applications of LSM and Lightsheet						
02 July 2022	12:00	12:50	2	3LS02	Chair: Akira SATO		
				3LS02	Speaker: Ryuta Koyama		ZEISS technology expands possibilities for neuroscience research: update and applications of LSM and Lightsheet
				3LS02	Speaker: Kayoko Suenaga		ZEISS technology expands possibilities for neuroscience research: update and applications of LSM and Lightsheet
3LS03	Outracing champion Gran Turismo drivers with deep reinforcement learning						
02 July 2022	12:00	12:50	3	3LS03	Chair / Speaker: Kenta KAWAMOTO		
				3LS03	Speaker: Takuma Seno		Outracing champion Gran Turismo drivers with deep reinforcement learning
3LS05	Pathogenesis and treatment strategies for Parkinson's disease						
02 July 2022	12:00	12:50	5	3LS05	Chair: Ryosuke TAKAHASHI		
				3LS05	Speaker: Hideki Mochizuki		Pathogenesis and treatment strategies for Parkinson's disease
3LMS06	Cultivating Human Resources for Individual to Shine						
02 July 2022	12:00	12:50	6	3LMS06	Chair: Marylka Yoe UUISAARI		
				3LMS06	Chair: Chihiro TOHDA		
				3LMS06	Speaker: Kazumasa Z.Tanaka		Career Strategies for Trainees Minoritized in Academia
				3LMS06	Speaker: Misako Aida		Researcher Development Through Regional Collaboration
3LS08	グリア依存的シナプス再編による脳の発達及び疾患 / Exceptional Imaging Made Easy ~EVIDENTが切り拓く新しいイメージングワークフロー~						
02 July 2022	12:00	12:50	8	3LS08-1	Speaker: Schuichi Koizumi		グリア依存的シナプス再編による脳の発達及び疾患
				3LS08-2	Speaker: Atsuya Toda		Exceptional Imaging Made Easy ~EVIDENTが切り拓く新しいイメージングワークフロー~
3LMS10	Interdisciplinary x International: The radical changes of existing scientific concepts and research fields						
02 July 2022	11:30	13:00	10	3LMS10-001	Chair / Speaker: Tomoko SAKAI		
				3LMS10-002	Moderator: Akira YOSHIDA		
				3LMS10	Speaker/Panelist: Keiichi Namba		"Cutting edge interdisciplinary research for a challenge at the frontier of nano-bioscience"
				3LMS10	Speaker/Panelist: Hiroki R. Ueda		"Towards Systems Biology of Human Sleep/Wake Cycles: Phosphorylation Hypothesis of Sleep"
				3LMS10	Speaker/Panelist: Takashi Tschimatsu		"Building your career and international collaboration networks: with my experience as an HFSP fellowship review
				3LMS10	Panelist: Mitsuo Kawato		
3PL01	Localized mRNAs and Protein Synthesis at Neuronal Synapses.						
02 July 2022	13:00	14:00	1	3PL01	Chair: Yukiko GODA		
				3PL01	Speaker: Erin M. Schuman		Localized mRNAs and Protein Synthesis at Neuronal Synapses.
3SL01	Research on brain development and disorders by utilizing spontaneous mutant animals						
02 July 2022	14:00	15:00	1	3SL01	Chair: Rieko MURAMATSU		
				3SL01-01	Speaker: Mikio Hoshino		突然変異動物を用いた脳神経系の発生および疾患の研究Research on brain development and disorders by utilizing
3S02a	Multi-scale understanding of mental disorders						
02 July 2022	14:00	16:00	2	3S02a-001	Chair: Tadafumi KATO		
				3S02a-002	Chair: Akiko HAYASHI-TAKAGI		
	14:00	14:20		3S02a-01	Speaker: Tomoyuki Furiyashiki		Multiscale understanding of stress pathology
	14:20	14:40		3S02a-02	Speaker: Kanzo Suzuki		Synaptic mechanisms underlying rapid antidepressant action
	14:40	15:00		3S02a-03	Speaker: Matthew Girgenti		Mapping the Cell Type-Specific Regulome of PTSD
	15:00	15:20		3S02a-04	Speaker: Gemma Modinos		Multi-scale approaches to uncover the neurobiology of vulnerability for psychosis
	15:20	15:40		3S02a-05	Speaker: Gustavo Turecki		Single-cell transcriptomic and regulatory signatures of the depressed brain
3S03a	Sensory representation of visual, auditory, olfactory, and gustatory input in the brain						
02 July 2022	14:00	16:00	3	3S03a-001	Chair: Kazushige TOUHARA		
				3S03a-002	Chair: Shinji NISHIMOTO		
	14:00	14:24		3S03a-01	Speaker: Shinji Nishimoto		Modeling and decoding visual, cognitive, and cross-modal representations
	14:24	14:48		3S03a-02	Speaker: Liberty Hamilton		Parallel and distributed encoding of speech across human auditory cortex
	14:48	15:12		3S03a-03	Speaker: Masako Okamoto		Neural representation of odors revealed by scalp-recorded EEG decoding
	15:12	15:36		3S03a-04	Speaker: Christina Zelano		Electrophysiological representation of odor in the human brain
	15:36	16:00		3S03a-05	Speaker: Jason Avery		Cortical representation of taste: there is no Cartesian restaurant
3004a1	Glial Mechanisms						
02 July 2022	14:00	15:00	4	3004a1	Chair: Ryuta KOYAMA		
	14:00	14:15		3004a1-01	Speaker: Audrey Denizot		Endoplasmic reticulum-plasma membrane contact sites in perisynaptic astrocytic processes: properties and effect
	14:15	14:30		3004a1-02	Speaker: Tetsushi Sadakata		Analysis of the effect of maternal factor on the brain development of the child via microglia
	14:30	14:45		3004a1-03	Speaker: Fuminori Tsuruta		Propagation of neuronal micronuclei regulates microglial maturation
	14:45	15:00		3004a1-04	Speaker: Teresa Canedo		Unveiling the mechanism of methamphetamine-induced neuroinflammatory response: focus on astrocyte to microglia glutamatergic signaling
3005a1	Perception / Appetitive and Aversive Learning / Emotion						
02 July 2022	14:00	15:00	5	3005a1	Chair: Makoto SATO		

	14:00	14:15		3005a1-01	Speaker: Kosuke Itoh		Human brain evolution accompanied a prologation of cerebral cortical sensory processing time: a non-invasive auditory evoked potential study in four primate species
	14:15	14:30		3005a1-02	Speaker: Yasuo Kabe		A neural workspace for representation sharing
	14:30	14:45		3005a1-03	Speaker: Toshikuni Sasaoka		Neurotransmission through dopamine D1 receptor is required for aversive memory formation and Arc activation in the cerebral cortex
	14:45	15:00		3005a1-04	Speaker: Hirotaka Nagai		Chronic social stress alters synaptic central metabolism for depression
3006a1	Neurogenesis and Gliogenesis / Synaptogenesis and Activity-Dependent Development						
02 July 2022	14:00	15:00	6	3006a1	Chair: Takaki MIYATA		
	14:00	14:15		3006a1-01	Speaker: Kazumi Shimaoka		AUTS2 is required for the production of upper-layer neurons in mouse cerebral cortex
	14:15	14:30		3006a1-02	Speaker: Yuki Hirota		Cadherin-6 regulates neuronal migration during neocortical development
	14:30	14:45		3006a1-03	Speaker: Yuki Hattori		The possibility that border-associated macrophage in the ventricle can be a source of subpopulation of microglia
	14:45	15:00		3006a1-04	Speaker: Yosuke Danjo		Astrocytes tune microglial engulfment of inhibitory synapses during postnatal development, which fates a lifelong cortical circuits.
3007a1	Vision / Eye Movements						
02 July 2022	14:00	15:00	7	3007a1	Chair: Yasuko SUGASE-MIYAMOTO		
	14:00	14:15		3007a1-01	Speaker: Zlata Polyakova		Saccadic eye movements and visual saliency in pharmacological model of schizophrenia during free-viewing in common marmosets
	14:15	14:30		3007a1-02	Speaker: Taihei Ninomiya		Representation of social action and prediction error in the macaque mid-superior temporal sulcus region
	14:30	14:45		3007a1-03	Speaker: Haruo Hosoya		Multiplicative computation in face-selective neurons
	14:45	15:00		3007a1-04	Speaker: Toshiki Kato		The role of bottom-up inputs from the primary visual cortex and higher visual thalamus in functional development of higher visual areas
3S08a	Mechano-neurobiology ~ Those who rule the force would rule the brain~						
02 July 2022	14:00	16:00	8	3S08a-001	Chair: Mineko KENGAJU		
				3S08a-002	Chair: Makoto SATO		
	14:03	14:25		3S08a-01	Speaker: Mayumi Okamoto		Mechanosensor channel PIEZO1 regulates cerebral development
	14:25	14:47		3S08a-02	Speaker: Makoto Sato		Tiling mechanisms of the compound eye through geometrical tessellation
	14:47	15:09		3S08a-03	Speaker: Naotaka Nakazawa		Molecular mechanisms of mechano-sensing / -response for neuronal migration in 3D brain tissue
	15:09	15:31		3S08a-04	Speaker: Hasan Ucar		Mechanical actions of dendritic-spine enlargement and the discovery of the PREST mechanism in the presynaptic terminals in the CNS.
	15:31	15:53		3S08a-05	Speaker: Yoichi Kosodo		How can we elucidate the significance of mechanical factors in human neural differentiation?
3S09a	Fantastic voyage into the intra- and inter-cellular structures in the brain						
02 July 2022	14:00	16:00	9	3S09a-001	Chair: Motohiro NOZUMI		
				3S09a-002	Chair: Atsuko HONDA		
	14:00	14:24		3S09a-01	Speaker: Misa Arizono		Dissecting neuron-glia interaction using live STED microscopy
	14:24	14:48		3S09a-02	Speaker: Daisuke Koga		Elucidation of three-dimensional organelle architecture using three-dimensional scanning electron microscopy techniques
	14:48	15:12		3S09a-03	Speaker: Takuro Tojima		Dynamics of membrane traffic in the neuronal growth cone revealed by super-resolution live imaging
	15:12	15:36		3S09a-04	Speaker: ATSUKO HONDA		Visualizing dynamics of membrane microdomains in living neurons by super-resolution imaging
	15:36	16:00		3S09a-05	Speaker: Motohiro Nozumi		Visualization of various organelle dynamics by super-resolution shadow imaging of intracellular space
3S10a	Emerging roles of nerve fibers in bone marrow disease						
02 July 2022	14:00	16:00	10	3S10a-001	Chair: Y. Takeshi HIYAMA		
				3S10a-002	Chair: Yoshio KATAYAMA		
	14:00	14:24		3S10a-01	Speaker: Yoshio Katayama		Bone marrow regulation by brain-bone-blood "3B" integration
	14:24	14:48		3S10a-02	Speaker: Noboru Asada		Neural regulation of normal and malignant hematopoiesis in bone marrow microenvironment
	14:48	15:12		3S10a-03	Speaker: Masahiro Abe		Myeloma-bone interaction and pain
	15:12	15:36		3S10a-04	Speaker: Tetsu Tanaka		Multifunctional neural probes and their application to bone marrow
	15:36	16:00		3S10a-05	Speaker: Takeshi Y Hiyama		Neural signaling from central autonomic control network to bone marrow
3SL02	Toward Embodied Intelligence with Deep Predictive Learning and Real Robots						
02 July 2022	15:00	16:00	1	3SL02	Chair: Kenji DOYA		
				3SL02	Speaker: Tetsuya Ogata		Toward Embodied Intelligence with Deep Predictive Learning and Real Robots
3004a2	Epilepsy / Depression and Bipolar Disorders						
02 July 2022	15:00	16:00	4	3004a2	Chair: Kazuhiro YAMAKAWA		
	15:00	15:15		3004a2-01	Speaker: Kazuhiro Yamakawa		Expression of sodium channel Nav1.1 at neocortical layer V pyramidal tract neurons elucidates a neural circuit for sudden death in Dravet syndrome
	15:15	15:30		3004a2-02	Speaker: Shota Yamamoto		A new data-driven electrophysiological feature to detect epileptic seizures
	15:30	15:45		3004a2-03	Speaker: Waki Nakajima		Stratification of animal models of depression using [C]K-2 and development of novel therapeutic strategy of depression
	15:45	16:00		3004a2-04	Speaker: Takato Honda		GABAergic neurons in Ventral Midbrain/Pons are involved in mania-like behaviors with altered sleep homeostasis and sleep architecture
3005a2	Mood and Anxiety / Motivation						
02 July 2022	15:00	16:00	5	3005a2	Chair: Hiroshi NOMURA		
	15:00	15:15		3005a2-01	Speaker: Toshinori Chiba		A reciprocal inhibition model to explain symptoms dynamics in patients with PTSD
	15:15	15:30		3005a2-02	Speaker: Noriko Horii		Homeage-specific defensive behavior evoked by hypothalamic activation -Relation with obsessive-compulsive disorder-
	15:30	15:45		3005a2-03	Speaker: Makoto Takemoto		Opposing roles for anatomically distinct neuronal populations of insular cortex layer 5 in appetitive behavior
	15:45	16:00		3005a2-04	Speaker: Hiroyuki Mizoguchi		Functional roles of orexin neurons in reward-based motivational behavior in rats
3006a2	Synaptogenesis and Activity-Dependent Development / Epigenetic Control of Development and Evolution						
02 July 2022	15:00	16:00	6	3006a2	Chair: Hidenobu MIZUNO		
	15:00	15:15		3006a2-01	Speaker: Mariko Yamamoto		Development of the connections between fast-spiking interneurons and pyramidal neurons in mouse visual cortex
	15:15	15:30		3006a2-02	Speaker: Tomoyuki Murano		Neural hyperexcitation induces M-phase reentry and long-term changes in the nuclear structure of neurons.
	15:30	15:45		3006a2-03	Speaker: Naoki Nakagawa		Activity-regulated positioning of the Golgi apparatus facilitates dendritic refinement in the developing mouse barrel cortex
	15:45	16:00		3006a2-04	Speaker: Richard Nana Abankwah Owusu Mensah		Specific Lobular and Stripe Topography in the mouse Lateral Cerebellar nucleus
3007a2	Spinal Cord, Motoneurons and Muscle						
02 July 2022	15:00	16:00	7	3007a2	Chair: Tadashi ISA		
	15:00	15:15		3007a2-01	Speaker: Yoshika Hayakawa-Yano		Deficiency of Quaking results in the dysregulation of RNA metabolism and motor neuron degeneration
	15:15	15:30		3007a2-02	Speaker: Masahiro Mitsuhashi		Change in contribution of the interhemispheric pathways to the recovery of dexterous hand movements after the corticospinal tract lesion in macaque monkeys
	15:30	15:45		3007a2-03	Speaker: Reona Yamaguchi		Global disinhibition associated with recovery of hand movements after spinal cord injury
3S01e	Molecular Neurochemistry: Chemical Technology for Neuroscience Research						
02 July 2022	16:10	18:10	1	3S01e	Chair: Itsuki AJIOKA		
	16:10	17:10		3S01e-01	Speaker: Motonari Uesugi		Chemical Biology of Self-Assemblies
	17:10	18:10		3S01e-02	Speaker: Takahiro Muraoka		Neurochemistry from supramolecular chemistry
3S02e	Elucidating the impairment of auditory predictive function in psychiatric disorders by bi-directional translational research						
02 July 2022	16:10	18:10	2	3S02e-001	Chair: Shinsuke KOIKE		
				3S02e-002	Chair: Liping WANG		
				3S02e-003	Chair: Misako KOMATSU		
	16:10	16:34		3S02e-01	Speaker: Kenji Kirihara		Altered predictive coding in schizophrenia: Clinical EEG studies
	16:34	16:58		3S02e-02	Speaker: Liping Wang		Constructing the Hierarchy of Predictive Auditory Sequences in the Marmoset Brain
	16:58	17:22		3S02e-03	Speaker: Zenas C Chao		Proactive and frequency-specific prediction signals in hierarchical predictive coding
	17:22	17:46		3S02e-04	Speaker: Misako Komatsu		The role of top-down signals in the frontotemporal circuit on auditory predictions
	17:46	18:10		3S02e-05	Speaker: Naoto Kunii		Human ECoG study on auditory predictive function
3S03e	Dynamics and multipotency of memory engram cells						
02 July 2022	16:10	18:10	3	3S03e-001	Chair: Takashi KITAMURA		
				3S03e-002	Chair: Gisella VETTERE		
	16:15	16:33		3S03e-01	Speaker: PAUL FRANKLAND		The role of microglia in extinction of fear engrams
	16:38	16:56		3S03e-02	Speaker: Kobi Rosenblum		Taste Saliency Representation in the Insula
	17:01	17:19		3S03e-03	Speaker: Gisella Vetere		Memory acquisition and consolidation in the neuronal network
	17:24	17:42		3S03e-04	Speaker: Satoshi Kida		Experience-dependent regulation of fear memory engram
	17:47	18:05		3S03e-05	Speaker: Takashi Kitamura		Experience-dependent observational fear in hippocampal-amygdala memory engram networks

3004e1 Neural Network Modeling and Artificial Intelligence						
02 July 2022	16:10	17:10	4	3004e1	Chair: Kosuke HAMAGUCHI	
	16:10	16:25		3004e1-01	Speaker: Tomoki Kurikawa	Inter-areal communications dependent on neural dynamics in a detailed local circuit model
	16:25	16:40		3004e1-02	Speaker: Alexander James White	Recurrent Mutual Inhibition: A Key Ingredient for Rapid Flexibility in Neural Circuits
	16:40	16:55		3004e1-03	Speaker: Timothee Leleu	Energy cost of synaptic computation for combinatorial optimization in spiking neural networks
	16:55	17:10		3004e1-04	Speaker: Kensuke Yoshida	Information maximization explains state-dependent synaptic plasticity and memory reorganization during NREM sleep
3005e1 Spatial Navigation / Learning, Memory and Plasticity						
02 July 2022	16:10	17:10	5	3005e1	Chair: Yasunori HAYASHI	
	16:10	16:25		3005e1-01	Speaker: Tatsuya Haga	Neural representation model of the entorhinal cortex for navigation in physical and semantic spaces
	16:25	16:40		3005e1-02	Speaker: Hiroyuki Miyawaki	Experience-dependent inter-regional coactivations of cell ensembles support memory.
	16:40	16:55		3005e1-03	Speaker: Yuichiro Hayashi	The Temporal and Contextual Stability of Activity Levels in Hippocampal CA1 Cells
	16:55	17:10		3005e1-04	Speaker: Hiroto Hiraishi	Contribution of cortical and subcortical brain areas to forgiveness judgments -fMRI study-
3006e1 Neurogenesis and Gliogenesis 2						
02 July 2022	16:10	17:10	6	3006e1	Chair: Kenji TANAKA	
	16:10	16:25		3006e1-01	Speaker: Mayumi Yamada	Analysis of neural stem cell regulatory mechanisms using optogenetics
	16:25	16:40		3006e1-02	Speaker: Takuya Imamura	Differential regulation of human and mouse neural stem cells mediated by species-specific promoter-associated non-coding RNAs (pancRNAs)
	16:40	16:55		3006e1-03	Speaker: Taito Matsuda	Decoding the DNA methylome of adult hippocampal neural stem cells during the aging process
	16:55	17:10		3006e1-04	Speaker: Eri Segi-Nishida	The role of neurotrophin-3 in the hippocampal adult neurogenesis and stress-related behaviors
3007e1 Rhythmic Motor Pattern Control / Cerebellum						
02 July 2022	16:10	17:10	7	3007e1	Chair: Kazuhiko SEKI	
	16:10	16:25		3007e1-01	Speaker: Toshiki Tazoe	Aberrant activity of spinal locomotor circuitry in humans with complete spinal cord injury
	16:25	16:40		3007e1-02	Speaker: Kazushi Fukumasa	Module structures in spatial distribution of activity timing and transmitters of synapse population in motor generating circuits
	16:40	16:55		3007e1-03	Speaker: SungHo Hong	Multidimensional cerebellar computations for flexible kinematic control of movements
	16:55	17:10		3007e1-04	Speaker: Yumi Tsutsumi	The cerebellar cortex receives orofacial proprioceptive signals from the supratrigeminal nucleus via the mossy fiber pathway.
3S08e Organization and development of the cerebellar nuclei						
02 July 2022	16:10	18:10	8	3S08e	Chair: Yoe Marylka UUISAARI	
	16:10	16:35		3S08e-01	Speaker: Daniel Goldowitz	Developmental history of the Cerebellar Nuclei : The Glutamatergic population
	16:35	17:00		3S08e-02	Speaker: Justus M Kobschull	Brain region evolution by duplication-and-divergence --- Lessons from the cerebellar nuclei
	17:00	17:25		3S08e-03	Speaker: Richard Hawkes	CEREBELLAR COMPARTMENTATION AND THE CEREBELLAR NUCLEI
	17:25	17:50		3S08e-04	Speaker: Abigail L Person	Anticipatory control of movement by the cerebellum
3S09e Back to synapse: visualization of synaptic dynamics						
02 July 2022	16:10	18:10	9	3S09e-001	Chair: Keiko TANAKA-YAMAMOTO	
				3S09e-002	Chair: Jinhyun (Jinny) KIM	
	16:10	16:35		3S09e-01	Speaker: Ling-Gang Wu	Real time visualization of exo- and endocytosis in live cells
	16:35	17:00		3S09e-02	Speaker: Pin-Wu Liu	Dual-color STORM imaging of subsynaptic segregation of glutamate receptor subtypes regulated by liquid-liquid phase separation
	17:00	17:25		3S09e-03	Speaker: Thomas A Blanpied	Synaptic nanoorganization that controls receptor activation
	17:25	17:50		3S09e-04	Speaker: Valentin Nagerl	Nanoscale imaging of the synaptic microenvironment using super-resolution shadow imaging (SUSHI)
	17:50	18:10		3S09e-05	Speaker: Jinhyun (Jinny) Kim	Visualization of synaptic convergence
3S10e Intelligent analysis for neuronal disorders: from cell to human						
02 July 2022	16:10	18:10	10	3S10e-001	Chair: Sachiko YOSHIDA	
				3S10e-002	Chair: Yasunari KANDA	
	16:10	16:30		3S10e-01	Speaker: Kazuki Tamura	Quantitative analysis of neural morphological changes in developmental neurotoxicity-induced animals using dee learning
	16:30	16:50		3S10e-02	Speaker: Naohiro Hozumi	Three-dimensional acoustic impedance mapping of cultured biological cells
	16:50	17:10		3S10e-03	Speaker: Takanobu Nakazawa	Modeling psychiatric disorders with iPS cell technology and disease mouse models
	17:10	17:30		3S10e-04	Speaker: Dai Yanagihara	Experimental and computational neuro-biomechanical modeling approaches for unravelling neural and biomechanical mechanisms of locomotor adaptation
	17:30	17:50		3S10e-05	Speaker: Yoko Nomura	Hierarchical linear modeling and Weighted gene co-expression network analysis to the Stress in Pregnancy study
3004e2 Learning Theory / Neural Network Modeling and Artificial Intelligence 2						
02 July 2022	17:10	18:25	4	3004e2	Chair: Hideaki SHIMAZAKI	
	17:10	17:25		3004e2-01	Speaker: Takuya Isomura	A perspective about the equivalence between neural networks and variational Bayes
	17:25	17:40		3004e2-02	Speaker: Thomas F Burns	A functional role for inhibitory diversity in associative memory
	17:40	17:55		3004e2-03	Speaker: Shotaro Takasu	Dynamical mean-field analysis of a reservoir computing receiving input signals partially
	17:55	18:10		3004e2-04	Speaker: Yu Terada	Computational roles of chaotic neural activity in probabilistic inference
	18:10	18:25		3004e2-05	Speaker: Arata Shirakami	Neural network embedding of functional microconnectome.
3005e2 Axonal Transport and Cytoskeleton / Myelin Mechanisms						
02 July 2022	17:10	18:10	5	3005e2	Chair: Mineko KENGAKU	
	17:10	17:25		3005e2-01	Speaker: MASAKI MORI	BEX1, a juvenility-associated gene, is essential for cillogenesis.
	17:25	17:40		3005e2-02	Speaker: Chao Wang	Structural perspective of ankyrin-mediated complex assembly in neuronal polarity maintenance and synaptic transmission
	17:40	17:55		3005e2-03	Speaker: Nobuharu Suzuki	The Maintenance of Small Caliber Axons in Teneurin-4 Deficient Mice with the Congenital Hypomyelination in th CNS
	17:55	18:10		3005e2-04	Speaker: Yuki Miyamoto	Rnd2 regulates myelination by oligodendrocytes depending on myelinating period
3006e2 Schizophrenia						
02 July 2022	17:10	18:25	6	3006e2	Chair: Yuji YAMADA	
	17:10	17:25		3006e2-01	Speaker: Yuji Yamada	Preclinical Evidence for the Mechanisms of Transcranial Direct Current Stimulation in the Treatment of Psychiatr Disorders: A Systematic Review
	17:25	17:40		3006e2-02	Speaker: Keiko Ikemoto	Efficacy of SEP-363856 verifies "D-cell hypothesis of schizophrenia"
	17:40	17:55		3006e2-03	Speaker: Yuriko Iwakura	Elevation of EGRI/zif268 in the auditory cortex of patients with schizophrenia and its animal model
	17:55	18:10		3006e2-04	Speaker: Charalampos Brakatselos	Cannabidiol modulates a schizophrenia-like bio-phenotype induced by repeated ketamine
	18:10	18:25		3006e2-05	Speaker: Felisa Maria Herrero	Behavioral and Molecular Characterization of a Novel Mouse Model of HERV-W Envelope Protein Expression
3007e2 Vision 2						
02 July 2022	17:10	18:10	7	3007e2	Chair: Minami ITO	
	17:10	17:25		3007e2-01	Speaker: Ayako Wendy Ishikawa	Timing-dependent LTP and LTD at feedback inputs from retrosplenial cortex to layer 2/3 pyramidal neurons in mice visual cortex
	17:25	17:40		3007e2-02	Speaker: Fumiaki Kishino	Functional reorganization of visual representation after eye opening in the mouse primary visual cortex.
	17:40	17:55		3007e2-03	Speaker: Kazuo Kakinuma	Kinetopsia induced by electrocortical stimulation: a case of temporal lobe epilepsy
	17:55	18:10		3007e2-04	Speaker: Takayuki Hashimoto	Neural basis of motion aftereffect mediated by predictive coding in the marmoset motion-selective visual areas
4EL02m Neurodevelopment research and database						
03 July 2022	8:00	8:50	2	4EL02m	Chair: Carina HANASHIMA	
				4EL02m	Speaker: Tomomi Shimogori	Neurodevelopment research and database
4EL03m 脳の可塑性とRNA分子の制御						
03 July 2022	8:00	8:50	3	4EL03m	Chair: Azusa KAMIKOUCHI	
				4EL03m	Speaker: Dan Ohtan Wang	脳の可塑性とRNA分子の制御
4EL04m 研究からのビジネス展開~BodySharingの場合~						
03 July 2022	8:00	8:50	4	4EL04m	Chair: Ryota MIYATA	
				4EL04m	Speaker: Emi Tamaki	研究からのビジネス展開~BodySharingの場合~
4EL05m Pushing the limits of information resolution of human functional neuroimaging						
03 July 2022	8:00	8:50	5	4EL05m	Chair: Kazuyuki SAMEJIMA	
				4EL05m	Speaker: Yoichi Miyawaki	Pushing the limits of information resolution of human functional neuroimaging
4S01m Exosomes and Neurochemistry ~from Cancer to Neuron~						
03 July 2022	9:00	11:00	1	4S01m-001	Chair: Nariko ARIMURA	
				4S01m-002	Chair: Kensuke IKENAKA	
	9:00	9:24		4S01m-01	Speaker: Takahiro Ochiya	Diagnosis and treatment of cancer and stress by extracellular vesicles

	9:24	9:48		4S01m-02	Speaker: Ayuko Hoshino		Exosomal proteins for mechanistic insight and biomarker potential –Exosomes, new players in the field of metastasis–
	9:48	10:12		4S01m-03	Speaker: Akiko Eguchi		Identification of protein barcode in circulating extracellular vesicles from fatigue and depression
	10:12	10:36		4S01m-04	Speaker: Takashi Kudo		Challenge to separation of nerve-derived exosomes
	10:36	11:00		4S01m-05	Speaker: Tsuneya Ikezu		Exosome and Dementia
4S02m	Recent Advances of Gene Therapy for Neurological Disorders						
03 July 2022	9:00	11:00	2	4S02m-001	Chair: Hideki MOCHIZUKI		
				4S02m-002	Chair: Stella PAPA		
	9:00	9:30		4S02m-01	Speaker: Stella M Papa		Multiple targets for gene therapy in Parkinson's disease
	9:30	10:00		4S02m-02	Speaker: Hirokazu Hirai		Suitable combination of AAV capsid and cell type-specific promoter for effective gene therapy
	10:00	10:30		4S02m-03	Speaker: Masafumi Onodera		Gene therapy for pediatric hereditary neurological disorders
	10:30	11:00		4S02m-04	Speaker: Seilchi Nagano		Gene therapy for ALS
4S03m	Advances in Computational Neuroscience						
03 July 2022	9:00	11:00	3	4S03m	Chair: Taro TOYOIZUMI		
	9:00	9:30		4S03m-01	Speaker: Carina Curto		Sequences and modularity of dynamic attractors in inhibition-dominated neural networks
	9:30	10:00		4S03m-02	Speaker: Ho Ka Chan		An economic decision-making model of anticipated surprise with dynamic expectation
	10:00	10:30		4S03m-03	Speaker: Chung-Chuan Lo		The roles of inhibitory networks in spatial orientation working memory in insects
	10:30	11:00		4S03m-04	Speaker: Srdjan Ostojic		The role of population structure in computations through neural dynamics
4S04m	Multiscale perspectives on cognitive deficits in brain diseases and translational approaches to improve the deficits						
03 July 2022	9:00	11:00	4	4S04m-001	Chair: Satoshi KIDA		
				4S04m-002	Chair: Yong-Seok LEE		
	9:00	9:24		4S04m-01	Speaker: Weidong Li		Desipramine rescues memory deficit in the mouse model of Kabuki syndrome
	9:24	9:48		4S04m-02	Speaker: Zhihua Gao		Oxytocin neurons: structural and functional connections
	9:48	10:12		4S04m-03	Speaker: Yong-Seok Lee		Targeting distinct cell types to improve learning and memory in mouse models of Rasopathy
	10:12	10:36		4S04m-04	Speaker: Anatol Kreitzer		Frontolimbic circuitry underlying compulsive behaviors
	10:36	11:00		4S04m-05	Speaker: Eric Klann		Cell Type-Specific Translation in Memory and Neurodevelopmental Disorders
4005m1	Neurodegenerative Disorders 2						
03 July 2022	9:00	10:00	5	4005m1	Chair: Youichi SHINOZAKI		
	9:00	9:15		4005m1-01	Speaker: Masaki Okubo		Ethosuximide improves clinical and pathological phenotypes of SCA42 mouse model
	9:15	9:30		4005m1-02	Speaker: Youichi Shinozaki		ABCA1 deficiency in astrocytes triggers non-cell-autonomous optic neuropathy via neuroinflammation and excitotoxicity
	9:30	9:45		4005m1-03	Speaker: Seiji Watanabe		Disruption of mitochondria-associated membrane inactivates TANK-binding kinase 1, leading to impairment of stress granule formation and motor dysfunction
	9:45	10:00		4005m1-04	Speaker: Fumio Takahashi		Molecular mechanism of immune-mediated neuronal cell death and its relevance to pathogenesis of neurodegenerative diseases
4006m1	Genomic Medicine and Gene Therapy / Regenerative Medicine						
03 July 2022	9:00	10:00	6	4006m1	Chair: Takanori YOKOTA		
	9:00	9:15		4006m1-01	Speaker: KOTARO YOSHIOKA		AMPA-receptor-related mechanism of neurotoxicity by antisense oligonucleotides via CSF-route
	9:15	9:30		4006m1-02	Speaker: Denglei Ma		Epimedium flavonoids alleviates the demyelination and neurological disorders in mice exposed to Cuprizone
	9:30	9:45		4006m1-03	Speaker: Ryuta Kinno		Synaptic functions affected by both a glioma in the left internal capsule and structures in the right posterior insu
	9:45	10:00		4006m1-04	Speaker: Eriko Matsumoto		Rock, paper, scissors – the effect of social defeat paradigm on human subjects stress response
4007m1	Audition / Vision						
03 July 2022	9:00	10:00	7	4007m1	Chair: Masato FUJIOKA		
	9:00	9:15		4007m1-01	Speaker: Katsura Yamamoto		Changes of brain structure and function in patients with unilateral hearing loss - a magnetic resonance imaging study-
	9:15	9:30		4007m1-02	Speaker: Shinichi Kumagai		Modulation of neural activities in auditory cortex by vagus nerve stimulation
	9:30	9:45		4007m1-03	Speaker: Fangchen Zhu		A parallel channel of state-dependent sensory signaling from the cholinergic basal forebrain to the auditory corte
	9:45	10:00		4007m1-04	Speaker: Masamichi J Hayashi		Format-dependent and spatially non-selective aftereffects induced by time adaptation
4005m2	Neurodegenerative Disorders 3						
03 July 2022	10:00	11:00	5	4005m2	Chair: Hideyuki TAKEUCHI		
	10:00	10:15		4005m2-01	Speaker: Min-Ho Nam		PET/CT imaging reveals reactive astrocyte-mediated neuronal hypometabolism in Alzheimer's disease patients
	10:15	10:30		4005m2-02	Speaker: Keita Kakuda		Lysophagy defends against propagation of α -synuclein aggregation through lysosomal rupture
	10:30	10:45		4005m2-03	Speaker: Takuya Ikeda		Overexpression of LOTUS, the endogenous Nogo receptor antagonist, improves phenotypes of ALS model mice
	10:45	11:00		4005m2-04	Speaker: Kei Hashimoto		Vulnerability in the hydrophobic region is crucial for species-specific aggregation of canine degenerative myelopathy-linked SOD1 E40K mutation.
4006m2	Movement Disorders / Brain Injury and Trauma						
03 July 2022	10:00	11:00	6	4006m2	Chair: Kosei TAKEUCHI		
	10:00	10:15		4006m2-01	Speaker: Miki Kaneshige		Enhanced spinal outputs are associated with compensatory changes in cell activities of monkey motor cortex through motor recovery after spinal cord injury
	10:15	10:30		4006m2-02	Speaker: Hiroyuki Sasakura		The recovery from the late-phase of Spinal Cord Injury by synapse connect and environmental improvement for neural regeneration
	10:30	10:45		4006m2-03	Speaker: Koutarou NAKAMURA		Extracellular DJ-1 induces sterile inflammation after ischemic stroke
4007m2	Learning, Memory and Plasticity 2						
03 July 2022	10:00	11:00	7	4007m2	Chair: Shusaku UCHIDA		
	10:00	10:15		4007m2-01	Speaker: Kohei Ueno		Two different dopamine release modes during olfactory associative learning in Drosophila
	10:15	10:30		4007m2-02	Speaker: Hayato Kondo		Neuronal reactivation in the prelimbic cortex during fear memory extinction
	10:30	10:45		4007m2-03	Speaker: Akira Moriya		Analysis of matured forebrain neuron-specific CFC syndrome model mice
	10:45	11:00		4007m2-04	Speaker: Keiichiro Minatohara		Fear conditioning induces spine formation in Arc-expressing neurons revealed by in vivo two-photon imaging
4SL01	Multi-scale synaptic analysis for psychiatric research						
03 July 2022	11:00	12:00	1	4SL01	Chair: Shigeki MORIGUCHI		
				4SL01	Speaker: Akiko Hayashi-Takagi		Multi-scale synaptic analysis for psychiatric research
4002a1	Perception / Development and Aging / Others						
03 July 2022	11:00	12:00	2	4002a1	Chair: Kaoru AMANO		
	11:00	11:15		4002a1-01	Speaker: Marco Celotto		An Information-theoretic Measure To Investigate The Content of Communication Between Simultaneously Recorded Neural Populations
	11:15	11:30		4002a1-02	Speaker: Helena Janickova		Nicotinic autoreceptors expressed by cholinergic interneurons in the striatum control striatal neuronal activity an explorative behavior
	11:30	11:45		4002a1-03	Speaker: Hugo Six		The metacognitive link between detection and discrimination tasks
	11:45	12:00		4002a1-04	Speaker: Epifanio Bagarinao		Characteristics of the aging brain of healthy older adults: A longitudinal study
4003a1	Neurogenesis and Gliogenesis 3						
03 July 2022	11:00	12:00	3	4003a1	Chair: Sachiko TSUDA		
	11:00	11:15		4003a1-01	Speaker: Chihiro Kurematsu		Synaptic pruning of murine adult-born neurons by microglia depends on phosphatidylserine
	11:15	11:30		4003a1-02	Speaker: Noriyuki Sugo		Loss of DNA polymerase β induces somatic mutations in developing cortical neurons
	11:30	11:45		4003a1-03	Speaker: Shota Iwatani		Development of the axon cap glia, a specialized structure surrounding the initial segment of the Mauthner cell, from larval to adult in zebrafish.
4004a1	Multisensory Integration / Vision / Voluntary Movements						
03 July 2022	11:00	12:00	4	4004a1	Chair: Junichi USHIBA		
	11:00	11:15		4004a1-01	Speaker: Kazuki Iijima		Cortical dynamics of efference copy: Large-scale ECoG during marmoset vocalizations
	11:15	11:30		4004a1-02	Speaker: Hiroshi Matsui		Common areas for detecting deviation: visual and auditory mismatch negativities from whole-cortical electrocorticogram (ECoG) arrays in common marmosets
	11:30	11:45		4004a1-03	Speaker: Atsushi Takagi		Why am I left or right-handed? Timing error as a source of handedness
	11:45	12:00		4004a1-04	Speaker: Ryohei Fukuma		Imagery-based brain-computer interface using electrocorticograms
4005a1	Alzheimer's Disease and Dementia 2						
03 July 2022	11:00	12:00	5	4005a1	Chair: Takashi SAITO		
	11:00	11:15		4005a1-01	Speaker: SHAN LUO		The effect and mechanism of P2Y1 receptor knockout on memory dysfunction in Alzheimer's disease mice
	11:15	11:30		4005a1-02	Speaker: MASAFUMI SHIMOJO		In vivo assessment of progressive astroglialosis in the pathophysiological cascade of rTg4510 tauopathy animal
	11:30	11:45		4005a1-03	Speaker: Hikari Tanaka		HMGB1 signaling phosphorylates Ku70 and impairs DNA damage repair in Alzheimer's disease pathology
	11:45	12:00		4005a1-04	Speaker: Yoshihiro Kino		Identification of the proteins that regulate the Alzheimer's disease-associated splicing of CD33
4006a1	Autism Spectrum Disorder / Neurodegenerative Disorders						
03 July 2022	11:00	12:00	6	4006a1	Chair: Tomoki KUWAHARA		

	11:00	11:15		4006a1-01	Speaker: Joon-Yong An		Identification of regulatory noncoding mutations associated with autism spectrum disorder
	11:15	11:30		4006a1-02	Speaker: Kenji Kobayashi		Microglia replacement could be the new therapeutic strategy on Alexander disease, the primary astrocyte disease
	11:30	11:45		4006a1-03	Speaker: Tomoki Kuwahara		Mechanism of α -synuclein release from microglia via the LRRK2-Rab10 pathway
	11:45	12:00		4006a1-04	Speaker: Yoshinori Tanaka		The suppression of autophagic flux from progranulin insufficiency increases aggregate-prone TDP-43 accumulat
4007a1	Olfaction and Taste / Others						
03 July 2022	11:00	12:00	7	4007a1	Chair: Takeshi IMAI		
	11:00	11:15		4007a1-01	Speaker: Kohei Fukata		Allosteric modulations in odor mixture responses
	11:15	11:30		4007a1-02	Speaker: Makoto Someya		Representation of innate odor value in the secondary olfactory center of Drosophila
	11:30	11:45		4007a1-03	Speaker: Mami Dojo Nakamizo		Neuronal mechanisms underlying behavioral switching during nociceptive escape
	11:45	12:00		4007a1-04	Speaker: Satoshi Manita		A new reaching, grasping, and retrieving task device for mice under head fixation
LD	LD						
03 July 2022	12:00	14:00	2	LD			
				LD-01			演題枠
4AL-02a	Deciphering the mystery of sleep: toward the molecular substrate for "sleepiness"						
03 July 2022	14:00	14:50	1	4AL-02a	Chair: Michisuke YUZAKI		
				4AL-02a-01	Speaker: Masashi Yanagisawa		Deciphering the mystery of sleep: toward the molecular substrate for "sleepiness"
4S03a	Cutting-edge research led by clinical psychiatrists						
03 July 2022	14:00	16:00	3	4S03a-001	Chair: Manabu MAKINODAN		
				4S03a-002	Chair: Kenji TANAKA		
	14:00	14:24		4S03a-01	Speaker: Kazuhiko Yamamuro		Reorganization of the prefrontal cortex neural circuit due to childhood adversity experience
	14:24	14:48		4S03a-02	Speaker: Kohji Mori		RNA-translation research in frontotemporal lobar degeneration
	14:48	15:12		4S03a-03	Speaker: Mariko Tada		Translational approach focusing on abnormal neural oscillation in psychiatric disorders
	15:12	15:36		4S03a-04	Speaker: Masashi Ikeda		Can genomic medicine help clinical psychiatry?
	15:36	16:00		4S03a-05	Speaker: Hiroyuki Uchida		Ketamine for treatment-resistant depression: AMPA receptor PET study
4S04a	Internal representation of perception and predictive coding						
03 July 2022	14:00	16:00	4	4S04a-001	Chair: Fumi KUBO		
				4S04a-002	Chair: Takamitsu WATANABE		
	14:00	14:24		4S04a-01	Speaker: Fumi Kubo		Motion processing and prediction using optical Illusion
	14:24	14:48		4S04a-02	Speaker: Hitoshi Okamoto		Quest for the neural circuits to optimize behavior by minimization of prediction error
	14:48	15:12		4S04a-03	Speaker: Lukas Ian Schmitt		Thalamocortical networks underlying perceptual inference during sensory decision-making
	15:12	15:36		4S04a-04	Speaker: Jun MIYATA		Understanding delusion from salience and confidence.
	15:36	16:00		4S04a-05	Speaker: Takamitsu Watanabe		Brain state dynamics underpinning perceptual internal model and controlling cognitive modes.
4S05a	Update of oligonucleotide therapy as a major trend of drug discovery for intractable neurological diseases						
03 July 2022	14:00	16:00	5	4S05a	Chair: Takanori YOKOTA		
	14:00	14:30		4S05a-01	Speaker: John Ravits		Current Status of ASO Therapy for ALS
	14:30	15:00		4S05a-02	Speaker: Chantal Ferguson		Integrating structure and function to guide development of therapeutic siRNAs for the central nervous system an beyond.
	15:00	15:30		4S05a-03	Speaker: Tetsuya Nagata		Blood-brain barrier penetrating heteroduplex oligonucleotide
	15:30	16:00		4S05a-04	Speaker: Tojo Nakayama		Precision medicine with antisense oligonucleotides for neurological disorders
4S06a	Theory meets quantitative experiments -in the case of simple circuits-						
03 July 2022	14:00	16:00	6	4S06a-001	Chair: Yuki TSUKADA		
				4S06a-002	Chair: Chun-Liang PAN		
	14:03	14:23		4S06a-01	Speaker: Greg J Stephens		Theory, reimagined
	14:23	14:43		4S06a-02	Speaker: Yuki Tsukada		Non-instantaneous response to sensory stimuli during navigational behavior
	14:43	15:03		4S06a-03	Speaker: Andrew Leifer		Direct measurement of whole-brain functional connectivity in C. elegans
	15:03	15:23		4S06a-04	Speaker: Naoki Hiratani		Analytical insights on the evolutionary model selection of olfactory circuits and its potential constraints
	15:23	15:43		4S06a-05	Speaker: Tatyana O. Sharpee		Reading out responses of large neural population with minimal information loss
4S07a	The pros and cons of early education and the ideal parent-child relationship from the view point of brain science xIOT						
03 July 2022	14:00	16:00	7	4S07a-001	Chair: Chihiro HOSODA		
				4S07a-002	Chair: Sachine YOSHIDA		
	14:05	14:20		4S07a-01	Speaker: Atsuko Saito		How fragile is mother-only parenting? - Reconsidering human learning
	14:20	14:35		4S07a-02	Speaker: Sachine Yoshida		Sensing of physical contact between parents and infants for understanding the neural basis of the feeling of safe
	14:35	14:50		4S07a-03	Speaker: Takashi Ikeda		Quantifying parent-child interaction using hyperscanning MEG
	14:50	15:05		4S07a-04	Speaker: Yuki Igarashi		Digital education for the AI generation -What parents should be aware of when giving digital devices to children-
	15:05	15:20		4S07a-05	Speaker: Masahiro Imafuku		Persistence in parents-young children and its neural basis
	15:20	15:35		4S07a-06	Speaker: Chihiro Hosoda		The neural correlates of persistence
PBL	神経再生の専門家と脳研究の達人による最先端脳科学！						
03 July 2022	15:00	17:00	2	PBL	Chair: Kohtaro TAKEI		
				PBL-01	Speaker: Hideyuki Okano		iPS細胞技術を用いた脊髄損傷の再生医療
				PBL-02	Speaker: Masanori Murayama		痺く脳、その動作原理
				PBL-03	Speaker: Sakiko Honjoh		意識と無意識のあいだ
				PBL-04	Speaker: Kyoko Miura		不老長寿!? がんにならない! ? 社会性げっ歯類ハダカデバネズミ
				PBL-05	Speaker: Saori Tanaka		行動を導く脳の数式