

SUNDAY, AUGUST 23, 2026

Oral 1-5 Hall4_A	Chairperson: Yann Harel; Qianying Ma	Cognition
Oral 1 16:25-16:37	Fluctuations in sustained attention performance relate to both periodic and aperiodic components of the MEG spectrum	Yann Harel , Université de Montréal, Canada
Oral 2 16:37-16:49	Theta-band functional gradient dynamics coordinates the formation and reactivation of melodic memory	Zhe Zhang , Hangzhou Normal University, China
Oral 3 16:49-17:01	Event Boundaries Trigger Neural Temporal Context Reinstatement that Predicts Trial-level Temporal Order Memory	Benhao Lu , East China Normal University, China
Oral 4 17:01-17:13	Sense of Agency Enhances Object-Spatial Memory Binding: An MEG Study	Qiaoyue Ren , Ecole Polytechnique Fédérale de Lausanne, Switzerland
Oral 5 17:13-17:25	A MEG Investigation of beta oscillations visuospatial sequence learning on the serial reaction time task	Qianying Ma , Beijing Language and Culture University, China
Oral 6-10 Hall 4_B	Chairperson: Yuanfeng Zhou; Anto I. Bagić	Clinical
Oral 6 16:25-16:37	Mapping Multi-frequency Absence Epilepsy Networks with both OPM-MEG and SQUID-MEG	Yuanfeng Zhou , Children's Hospital of Fudan University, China
Oral 7 16:37-16:49	MEG in Surgical Epilepsy: Moving Forward or to the Front?	Anto I. Bagić , University of Pittsburgh, United States
Oral 8 16:49-17:01	MEG source localization in epilepsy: validation of dipolar methods thanks to simultaneous MEG-SEEG recordings	Maria Fratello , Aix-Marseille University, France
Oral 9 17:01-17:13	Neurophysiology-based biomarkers for psychogenic non-epileptic seizures	Vahe Poghosyan , King Fahad Medical City, Saudi Arabia
Oral 10 17:13-17:25	Development and Validation of a Multimodal Data- Based Scale for Predicting Epilepsy Surgery Outcomes	Cai Yuan , Beijing Tiantan Hospital, China
Oral 11-15 Hall 4_C	Chairperson: Gabriela Tardelli; Xiangyan Kong	Others
Oral 11 16:25-16:37	Multi-Modal Magnetomechanical Fetal Cardiac Imaging: Simultaneous Fetal Magnetocardiography and Fetal Echocardiography	Gabriela Tardelli , University of Wisconsin-Madison, United States
Oral 12 16:37-16:49	Exploring Cardiac Phase Relationships in Reading-Related Saccades During Natural Reading	Xin Wang , University of Birmingham, United Kingdom
Oral 13 16:49-17:01	SQUID Gradiometer Based Magnetocardiography and Clinical Application	Xiangyan Kong , Ningbo University, China
Oral 14 17:01-17:13	Comparing brain responses to continuous and intermittent transcutaneous vagus nerve stimulation using magnetoencephalography	Tatiana Kameneva , Swinburne University of Technology, Australia
Oral 15 17:13-17:25	Diamond-based quantum sensors for magnetocardiography	Arne Wickenbrock , Johannes Gutenberg University Mainz, Germany
Oral 16-20 Hall 4_D	Chairperson: Joseph Gibson; Lingxi Lu	OPM
Oral 16 16:25-16:37	Beta-band dynamics during naturalistic motor learning: an OPM-MEG study	Joseph Gibson , University of Nottingham, United Kingdom
Oral 17 16:37-16:49	Neural processing of attended and ignored acoustic features under binaural unmasking in second-language speech perception	Lin Lin , Beijing Language and Culture University, China
Oral 18 16:49-17:01	Perceptual Access More Than Emotion Category Modulates Aperiodic Reward Signals: An OPM-MEG Study	Pan Wang , Wenzhou Medical University, China
Oral 19 17:01-17:13	An Integrated OPM-MEG System for Wearable and Multichannel Applications: Validation Through Phantom and Multi-Paradigm Human Experiments	Rui Yang , Peking University, China
Oral 20 17:13-17:25	An OPM-MEG Study on the Spatiotemporal Patterns and Language-Specific Neural Mechanisms of Auditory Processing of Chinese lexical tones	Yunqi Shen , Macau University of Science and Technology, China

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Oral 21-25 Hall4_A		Chairperson: Alexandra Razorenova; Yuening Yan	Cognition
Oral 21 17:30-17:42	Active rehearsal after overnight sleep strengthens emerging semantic representations of novel action words: a two-day MEG study	Alexandra Razorenova, LLC "LIFT Center", Russia	
Oral 22 17:42-17:54	Narrative Structure Constrains the Influence of Dynamic Emotional Boundaries on Event Sequence Processing	Yoyue Dong, Central China Normal University, China	
Oral 23 17:54-18:06	The problem is not prediction: neural mechanisms of probabilistic reinforcement learning in adolescents	Kristina Pultsina, Moscow State University of Psychology and Education, Russia	
Oral 24 18:06-18:18	Preparatory rule representations are actively maintained during rule switching	Yuena Zheng, University of Cambridge, United Kingdom	
Oral 25 18:18-18:30	Task demands dynamically structure feature selection, routing, and integration in the human brain	Yuening Yan, University of Glasgow, United Kingdom	
Oral 26-30 Hall4_B		Chairperson: Elena Finnilä; Zimo Huang	Cognition
Oral 26 17:30-17:42	The aperiodic 1/f exponent as a marker of task-dependent functional brain states in childhood	Elena Finnilä, University of Jyväskylä, Finland	
Oral 27 17:42-17:54	OPM-MEG enhances the detection of visual gamma-band responses in schizophrenia	Dario Gordillo, Charité-Universitätsmedizin Berlin, Germany	
Oral 28 17:54-18:06	Neurovascular Unit Impairment and Dynamic Brain Network Abnormalities in Alzheimer's Disease—Associated Subclinical Epileptiform Activity: A Multimodal Study	Yingting Wang, Beijing Tiantan Hospital, China	
Oral 29 18:06-18:18	Altered time-resolved cortical hierarchy and synergy function in first-episode drug-naïve schizophrenia during sensory attenuation: A MEG study	Lingling Hua, Nanjing Brain Hospital, China	
Oral 30 18:18-18:30	Hippocampal phase-amplitude coupling encodes the distance to hidden goals	Zimo Huang, University College London, United Kingdom	
Oral 31-35 Hall4_C		Chairperson: SungJun Cho; Anya Dietrich	Others
Oral 31 17:30-17:42	MEG-GPT-2: A Generative Foundation Model for MEG with Neuroscientifically Meaningful Representations	SungJun Cho, University of Oxford, United Kingdom	
Oral 32 17:42-17:54	Novel ICA method to detect travelling waves in MEG data	Yaroslav Kerechanin, HSE University, Russia	
Oral 33 17:54-18:06	Mutual Component Analysis: extracting meaningful M/EEG components from coupled datasets	Silvia Federica Cotroneo, Aalto University, Finland	
Oral 34 18:06-18:18	HeteroRC: Decoding latent information from dynamic neural responses with interpretable heterogeneous reservoir computing	Runhao Lu, University of Cambridge, United Kingdom	
Oral 35 18:18-18:30	Multiscale Neural Fingerprints Across EEG, MEG, and fMRI	Anya Dietrich, Goethe University Frankfurt, Germany	
Oral 36-40 Hall4_D		Chairperson: Peter Donhauser; Lang Qin	Cognition
Oral 36 17:30-17:42	Irregular click trains reveal the resonant nature of auditory neural responses	Peter Donhauser, Ernst Strüngmann Institute, Germany	
Oral 37 17:42-17:54	Longitudinal neural tuning of predictive coding hierarchy during second language learning	Lang Qin, Peking University, China	
Oral 38 17:54-18:06	Using co-registered MEG and eye-tracking to understand the cortical systems that support Chinese reading	Erik D Reichle, Macquarie University, Australia	
Oral 39 18:06-18:18	Spatiotemporal Dynamics of Language Switching in Chinese-Japanese Bilinguals: An MEG Study	Jihyun Park, Waseda University, Japan	
Oral 40 18:18-18:30	HDND: Hierarchical Dynamic Neural Decoding Framework Unlocks Multilingual Word/Character Retrieval from Non-Invasive Brain Recordings	Nizhuan Wang, The Hong Kong Polytechnic University, China	

MONDAY, AUGUST 24, 2026

Oral 41-45 Hall4_A		Chairperson: Erin Mahan; Vincent Jonany	OPM
Oral 41 17:30-17:42	Simultaneous OPM-MEG and DCS Cerebral Blood Flow Measurements of Neural-Vascular Dynamics	Erin Mahan, Karolinska Institutet, Sweden	
Oral 42 17:42-17:54	Assessing Neurovascular Coupling Using a Combined OPM-MEG and fNIRS Imager	Urban Marhl, Institute of Mathematics, Physics and Mechanics, Slovenia	
Oral 43 17:54-18:06	Performance of Hybrid OPM- and SQUID-MEG Hyperscanning Evaluated by Verbal Communication Task	Ushijima Yuki, Hokkaido University, Japan	
Oral 44 18:06-18:18	Inter-subject correlations in OPM-MEG during movie viewing	Paavo Hietala, Aalto University, Finland	
Oral 45 18:18-18:30	Single-trial assessment of gamma-frequency brain oscillations and their modulation using transcranial alternating current stimulation (tACS)	Vincent Jonany, Charité - Universitätsmedizin Berlin, Germany	
Oral 46-50 Hall4_B		Chairperson: Avi Goldstein; Xiaoqi Yang	Cognition
Oral 46 17:30-17:42	MEG beta burst suppression signals semantic event boundaries during naturalistic speech	Avi Goldstein, Bar-Ilan University, Israel	
Oral 47 17:42-17:54	MEG investigation of adjective order preferences as a syntactic constraint	Boxuan Li, New York University, United States	
Oral 48 17:54-18:06	Preview effects and natural reading in Chinese using Co-registration of EEG and eye-tracking	Urs Maurer, Chinese University of Hong Kong, China	
Oral 49 18:06-18:18	A MEG-Benchmarked Preprocessing Multiverse for Decoding Naturalistic Speech from Portable EEG	Yi Li, University of Cambridge, United Kingdom	
Oral 50 18:18-18:30	From high-energy consumption to efficient prediction: Developmental changes in neural dynamics of syllable processing	Xiaoqi Yang, Beijing Language and Culture University, China	
Oral 51-55 Hall4_C		Chairperson: Simon Griffin; Xin Zhang	Clinical
Oral 51 17:30-17:42	State-dependent spectral slowing in Lewy body dementia: MEG resting-state dynamic connectivity study	Simon Griffin, University of Florida, United States	
Oral 52 17:42-17:54	Preoperative MEG risk score predicts progression risk in diffuse glioma	Velmurugan Jayabal, University of California, United States	
Oral 53 17:54-18:06	Personalised BCI for Post-Stroke Rehabilitation: A Pilot Study on the Effects of Mental Fatigue Monitoring in Patients.	Girijesh Prasad, Ulster University, United Kingdom	
Oral 54 18:06-18:18	Early regional decreases in the aperiodic exponent inform conversion of cognitively unimpaired individuals to amnesic mild cognitive impairment	Cathlin Jiaqi Han, Simon Fraser University, Canada	
Oral 55 18:18-18:30	Hepatic and Splenic Sensitivity to Static Magnetic Fields: From Magnetoreception to Disease Intervention	Xin Zhang, Hefei Institutes of Physical Science, Chinese Academy of Sciences, China	
Oral 56-60 Hall4_D		Chairperson: Tim Tierney; Hao Cheng	OPM
Oral 56 17:30-17:42	Real-World Neuroimaging: Magnetoencephalography Without a Shielded Room	Tim Tierney, University College London, United Kingdom	
Oral 57 17:42-17:54	Markerless 3D Motion Capture for Wearable OPM-MEG	Robert Seymour, University of Oxford, United Kingdom	
Oral 58 17:54-18:06	Mobile, On-Scalp MEG at Low Cost using OPM Modules	Nicholas Alexander, University College London, United Kingdom	
Oral 59 18:06-18:18	OPM-MEG in a compact magnetic shield	Mikael Grön, Aalto University, Finland	
Oral 60 18:18-18:30	Wireless OPM-based synthetic gradiometer for unconstrained biomagnetic imaging	Hao Cheng, Peking University, China	

TUESDAY, AUGUST 25, 2026

Oral 61-65 Hall4_A			Cognition
Oral 61 14:35-14:47	Neural ramping dynamics scale with relative progress in sentences, not elapsed time		Leonardo Zeine , Ernst Strüngmann Institute for Neuroscience, Germany
Oral 62 14:47-14:59	Isolating Language-Related Working Memory in the Prefrontal Cortex with Delayed Picture Naming and MEG		Mana Tanifuji , Waseda University, Japan
Oral 63 14:59-15:11	Active and passive exposure to speech sounds modifies change detection brain responses in adults, a MEG study		Kaijun Jiang , University of Jyväskylä, Finland
Oral 64 15:11-15:23	Temporal Hierarchy and Contextual Facilitation in Mandarin Nasal Coda Processing: A Time-Resolved MEG-MVPA Study		Xiaoshan Ying , Beijing Language and Culture University, China
Oral 65 15:23-15:35	Hierarchical language processing relies on transformed reactivation of latent working memory		Jiaqi Li , University of Oxford, United Kingdom
Oral 66-70 Hall4_B			Others
Oral 66 14:35-14:47	Development of brain markers of auditory perception: comparison of brain responses recorded with MEG and simulation		Orsolya Beatrix Kolozsvári , University of Jyväskylä, Finland
Oral 67 14:47-14:59	Avatar-Mediated Communication Alters Task-Related Alpha-Band Activity Compared with Face-to-Face Communication		Yu Han , Hokkaido University, Japan
Oral 68 14:59-15:11	Multiple pathways involve in bio-response to the hypomagnetic field		Rongqiao He , Institute of Biophysics, Chinese Academy of Sciences, China
Oral 69 15:11-15:23	Multi-channel SQUID-MEG of cortical population spikes		Jim Barnes , Physikalisch-Technische Bundesanstalt, Germany
Oral 70 15:23-15:35	Magnetometer Characterization as Foundation for Non-Cryogenic Biomagnetic Sensing 上		Eric Elzenheimer , Kiel University, Germany
Oral 71-75 Hall4_C			OPM
Oral 71 14:35-14:47	Viability of Lightly Shielded Environments for OPM MEG		Ewan Kennett , University of Nottingham, United Kingdom
Oral 72 14:47-14:59	Assessing Motion Tolerance in HEDscan OPMs Without Panel Coils: A Multisite Study		Svenja Knappe , University of Colorado, United States
Oral 73 14:59-15:11	External coil-based co-registration and validation for flexible-helmet OPM-MEG		Vishal Shah , QuSpin, United States
Oral 74 15:11-15:23	Task-Specific Gamma-Band Alterations in Laryngeal dystonia: An OPM-MEG Study		Jiahao Li , West China Hospital of Sichuan University, China
Oral 75 15:23-15:35	Initial System-Level Validation of a 312-Channel Dual-Axis OPM-MEG System for High-Density Whole-Head Neuroimaging		Yuming Peng , Shandong Provincial Hospital, China
Oral 76-80 Hall4_D			Clinical
Oral 76 14:35-14:47	Magnetoencephalography captures oscillatory dynamics in deep brain regions		Chetan Gohil , University College London, United Kingdom
Oral 77 14:47-14:59	Multimodal EEG-MEG and Stress-Response Signatures of Sleep Reactivity and Insomnia Vulnerability		Sifan Hu , Peking University Sixth Hospital, China
Oral 78 14:59-15:11	Reduced prefrontal gamma power mediate the relationship between evening chronotype and anhedonia in major depressive disorder		Ruiyao Wu , Nanjing Brain Hospital, China
Oral 79 15:11-15:23	Functional Connectivity Characteristics of the Frontoparietal Control Network in Major Depressive Disorder Patients with Insomnia: A Magnetoencephalography Study		Yingying Huang , Nanjing Brain Hospital, China
Oral 80 15:23-15:35	Dynamic Brain Network Spectral Signatures for Early Identification of Bipolar Disorder During Depressive Episodes: A MEG Study Using DyNeMo		Moxuan Song , Nanjing Brain Hospital, China

TUESDAY, AUGUST 25, 2026

Oral 81-85 Hall4_A			Chairperson: Georgios Michalareas; Junru Chen	Cognition
Oral 81	16:10-16:22	Anticipatory Sensorimotor Synchronization Across Limbs		Georgios Michalareas, Goethe University Frankfurt, Germany
Oral 82	16:22-16:34	MEG reveals visual suppression during attention shifts		Zixiao Zhang, Institute of Biophysics, Chinese Academy of Sciences, China
Oral 83	16:34-16:46	Stronger patellar tendon tap intensifies cortical processing of the respective proprioceptive afference		Feiyue Li, University of Jyväskylä, Finland
Oral 84	16:46-16:58	Neural Correlates of Implicit Cross-Modal Cognitive Processing		Yangjiayi Mu, Fudan University, China
Oral 85	16:58-17:10	Volitional muscle activation intensifies cortical processing of proprioceptive afference from the hand		Junru Chen, University of Jyväskylä, Finland
Oral 86-90 Hall4_B			Chairperson: Tara Ghafari; Shun Guo	OPM
Oral 86	16:10-16:22	OPM-FLUX: A Pipeline for OPM-MEG Data Analysis		Tara Ghafari, University of Oxford, United Kingdom
Oral 87	16:22-16:34	Can Triaxial OPM-MEG Replace SQUID-MEG? A Source Localization Comparison		Laura Gee, Université Côte d'Azur, France
Oral 88	16:34-16:46	Optimizing HPI Coil Placement for Small Number of OPM-MEG Sensors		Hayato Watanabe, National Institute of Information and Communications Technology, Japan
Oral 89	16:46-16:58	Noise reduction in OPM-MEG using an optimized gradiometric sensor configuration		Shun Guo, Institute of Biophysics, Chinese Academy of Sciences, China
Oral 90	16:58-17:10	Optimisation of the ⁴ He OPM-MEG data acquisition procedure		Lydia Stoutah, Institut de Neurosciences des Systèmes, France
Oral 91-95 Hall4_C			Chairperson: Jan Schalla; Chenxi Sun	Others
Oral 91	16:10-16:22	Validating laminar inference using high-precision MEG		Jan Schalla, Heinrich-Heine University Duesseldorf, Germany
Oral 92	16:22-16:34	How wealth sources shape redistribution: Dynamic modulation of prosocial motives and their neural representations		Jiaqi Wang, East China Normal University, China
Oral 93	16:34-16:46	Connectivity Informed Standardized Kalman Filtering for Spatio-Temporal EEG/MEG Source Localization		Dilshanie Prasikala Wannu Achchi Kankanamge, Tampere University, Finland
Oral 94	16:46-16:58	Fidelity of non-cerebral source localization in MEG depends on the strength and topography of simultaneous cerebral activation: a simulation study		Line Kruse, Aarhus University, Denmark
Oral 95	16:58-17:10	Geometry-Aware Source Localization in Unshielded Scalar Magnetoencephalography		Chenxi Sun, Peking University, China
Oral 96-100 Hall4_D			Chairperson: Bobrov Pavel; Tai Sun	Clinical
Oral 96	16:10-16:22	MEG Study of Neurophysiological Correlates of Individual Stages of Graded Motor Imagery in Healthy Individuals and Individuals with Phantom Limb Pain		Bobrov Pavel, HSE University, Russia
Oral 97	16:22-16:34	Synthesis of non-invasive neural signals to enhance motor brain-computer interface datasets with generative network model.		Hong June Kim, Konkuk University, South Korea
Oral 98	16:34-16:46	Monitoring Sensorimotor Plasticity During VR Mirror Training in Congenital Hand Amelia Using MEG: Case Report		Sazonov Oleg, HSE University, Russia
Oral 99	16:46-16:58	Somatosensory timing and cerebellar-basal ganglia beta-band interactions in Parkinson's disease		Lau Møller Andersen, Aarhus University, Denmark
Oral 100	16:58-17:10	Reliable Motor Mapping With OPM-MEG for Preserving Motor Function in Brain Tumor Surgery		Tai Sun, Beijing Tiantan Hospital, China