



APSN-FAONS-HKSN
Neuroscience conference
2026

POSTER LISTS

August 23 - 26, 2026

(Updated 10 August 2026)

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- P004** Temporal divergence of BDNF- and NT3-driven transcriptional programs defines a PLC γ -dependent gene module for presynaptic, axonal, and vesicular trafficking machinery in cortical neurons
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- P005** Slitrk paralogs configure excitatory synaptic specificity via different extracellular and intracellular mechanisms
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- P006** Rab23 deletion affects lipid homeostasis and cognitive function
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- P007** TNRC6A, a Core Component of P-Bodies, Mediates Aging-Related Dendritic Spine Alterations and Spatial Memory Decline via miRNA-Mediated Synaptic Genes
Xinrong Li
- P008** Lhx1/5-dependent EAAT4 expression contributes to Purkinje cell dendritic development and synaptic microenvironment
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- P009** Modified NGF-expressing Induced Human Mesenchymal Stem Cells Promote Early Peripheral Nerve Regeneration in Rodents
Shengxi Yang
- P043** Astrocyte-Specific Double Stranded RNA-ADAR1 Signalling Links Innate Immunity to Complement Activation in Parkinson's Disease
Yang Liu
- P044** Reduced lysosomal proteolytic activity promotes intracellular protein aggregation and disrupts neuronal maturation
Yuuki Fujiwara
- P045** R-spondin 3 orchestrates oligodendrocyte lineage progression through an LGR4-FGFR3 receptor complex to drive white matter development and repair
Xiaohua Jiang
- P046** YY1-Wnt10b-Fzd4 Axis Regulates Purkinje Cell Development and Its Dysfunction Leads to Cerebellar Ataxia
Yoon Ji Kwon
- P047** Targeted delivery of Spike replicon RNAs via VRPs to microglia and its impact on neuroinflammation
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- EP2** Oxidative Stress Promotes Pathological TDP-43 Protein Accumulation via the ERK1/2 Signaling Pathway
Yuge Chang
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- EP3** Inhibiting Connexin 43 Hemichannel Opening Tempers Irradiation-induced p65 NF- κ B And YAP Modulation In Astrocytes And Limits Astroglisis
Hanane Tahiri
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- P039** Optimizing the Speech Processing of Cochlear Implants with Artificial Neural Networks
Xiaohan Bao
- P040** mGluR5-Mediated Astrocytic Calcium Signaling Regulates EAAT2 Expression and Novel Object Recognition Memory
Yue Huang

P041 The Effects of α -Synuclein Mutation on Synaptic Transmission
Hoi Dik Au-Yeung

P050 Unique dynamics and distinct pools of spontaneously recycled inhibitory synaptic vesicles revealed by real-time three-dimensional single-vesicle tracking
Chungwon Park

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P002 Comprehensive Mapping of Neuronal Inputs to dorsal CA1 Using Retrograde Tracing to Elucidate Memory Mechanism
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Rhia Rajeevan

P011 Hippocampal Cholinergic Dysregulation Underlies Cognitive Deficits in Mice Exposed to Nano-Neonicotinoid Pesticides
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P012 Cognitive Polygenic Scores and Executive Function Performance in Schizophrenia Spectrum Disorders
Victoria Plakunova

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Basanta Manjari Naik

P014 The role of KIF5B in localization of RNA-binding proteins and specific synaptic modifications in living mouse brain
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P015 Value-Based Choice Under Delay and Uncertainty: Links to Interoceptive, Autonomic, and Prefrontal Processes
Suhhyun Park

P016 Attention and mind wandering is not binary: Exploring the EEG markers of intermediate state between attention and mind wandering
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P017 Multi-level analysis of stroke-induced cognitive impairment
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Shuting Wang

P019 Cholinergic Modulation of Spatial Learning in the Perirhinal Cortex
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Jing Jun Wong

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P049 Burden of Idiopathic Developmental Intellectual Disability Attributable to Lead Exposure in Northeast Asia, 1990–2023: A Systematic Analysis for the Global Burden of Disease Study 2023.
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Makalin Changchai

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- P051** **A Novel Sequential Dexterous Forelimb Task Reveals Learning-Dependent Refinement of Motor Cortical Population Dynamics**
Yinan Zheng

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Cell Biology of Neurons and Glia

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- P039** Standardized Extract of *Centella asiatica* (SECA) Attenuates Nitric Oxide Production and NF- κ B Activation in Lipopolysaccharide-Induced Microglial Cells: In Vitro and In Silico Evidence
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- P040** Mitochondrial OXPHOS Imbalance and Impaired Mitophagy in Fragile X Syndrome
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- Flash Talk

Neurotransmission and Neuroplasticity

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- P032** Study on the Effect and Mechanism of Lactylation Modification of Munc18-1 on Cerebral Ischemia-Reperfusion Injury
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- P045** Astrocytic G-Protein-Coupled Receptors Signaling in the Hippocampus Modulates Neuronal Computation Underlying Inferential Fear Memory Through L-Lactate in Mice
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- P046** **Low-frequency electrotherapy for neocortical epilepsy depends on sensory deficits**
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- P047** **Day-night dynamics of brain states and behaviors revealed by 24-hour stereoelectroencephalography signals from epileptic patients**
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- P050** **Synfire Chains in Theta-nested Gamma Oscillations balances Prediction and Vigilance**
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Cognition and Behavior

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- P002** **Involvement of $\alpha 7$ Nicotinic Acetylcholine Receptor-Signaling in Social Behavior Impairments in the Stressed Mice**
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Internal States and Homeostasis

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- P056** Advancing Personalized Self-Regulation Neuroscience Through Multimodal Prediction of HRV Biofeedback Response
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Disorders of the Nervous System

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- P022** Pre- and postsynaptic upregulation of FasII synergistically underlies neuropathological and behavioral phenotypes in a *Drosophila* model of myotonic dystrophy
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- P024** nELAVL phosphorylation by CDKL5 regulates RNA metabolism and condensates communication to promote experience-dependent maturation of the visual cortex
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- P025** Nobiletin Activates Ambra1-Dependent Mitophagy to Rescue Cognitive Decline in Alzheimer's disease Models
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- P029** Not where, but which: stiff dimensions prioritize candidate mechanisms in autism
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- P030** Young Fecal Microbiota Transplantation Rejuvenates Neural Regenerative Capacity in Aged Mice via Remodelling of the Gut Microbiota-Metabolite Axis
Xinyu Chen
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- P035** Combined Transcranial Direct Current Stimulation and Immersive Virtual Reality Meditation for Generalized Anxiety Disorder: A Randomized Pilot Trial
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- P036** The association of associative striatum glutamatergic levels and whole-brain resting-state functional connectivity in clinical high risk for psychosis
Siya Peng
Flash Talk

Neural Methods and Technology

- EP2** Fixation with the two-carbon dialdehyde glyoxal facilitates multiscale label-free 3D brain imaging in mice
Haruka Takano
Dynamic e-Poster
Flash Talk

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Cell Biology of Neurons and Glia

- P049** **A dynamic landscape of lineage-defined oligodendrocytes in the mouse cortex**
Yuqi Cai

Neurotransmission and Neuroplasticity

- P033** **Granule Cell Activity Shapes Presynaptic Signaling to Purkinje Cells during OKR Learning**
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- P034** **Neuronal-specific Roles of PRMT8 in Excitatory / Inhibitory Balance during Associative Fear Learning**
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Cognition and Behavior

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- P002** **Neural circuits of eye movement desensitization and reprocessing in fear extinction**
Guowei Zhang
- P003** **Posterior perirhinal cortex directs dorsal CA1 cognitive map formation**
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- P004** **Olfactory Temporal Order Memory Deficits Induced by vHPC-to-mAON Neural Circuit Inhibition in Early Alzheimer's disease**
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- P005** **Establishing Octopus as a Systems Neuroscience Model for Studying Complex Cognition**
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- P006** **The role of serotonin in fear conditioning and fear extinction**
Xiaoqian Liu
- P040** **The Investigation of impact of sleep fragmentation on brain inflammation, metabolism and cognitive behaviour**
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Computational and Theoretical Neuroscience

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- P009** **A Dynamical Route to Emergent Criticality in Training Deep Neural Networks**
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- P045** **Spinal cord interneuronal population activities coordinate muscle activities through a low-dimensional communication subspace**
Borong He
- P046** **From Muscle synergies to Motor Units: Evidence of Synergy Degeneracy in Human Motor System**
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- P047** **Can Rodents Count? —Unveiling Number Sense in Mice**
Tuo Liang

Internal States and Homeostasis

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- P022** **A thalamocortical circuit with central lateral nucleus and anterior cingulate cortex optimizes flight behavior via subcortical areas**
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- P025** **Pilot Study of Whole-Brain c-Fos Imaging in a Suncus murinus Model of Cisplatin-Induced Emesis**
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Disorders of the Nervous System

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- P011** **Alpha-melanocyte Stimulating Hormone Protects Retinal Neurons from Ischemia/reperfusion Injury by Regulating Ferroptosis**
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- P012** **Investigating the Impact of TRIP12 Mutation on Neural Development Using Human Neural Organoid Model**
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- P013** **The role of parvalbumin interneurons in modulating microglia functions in Alzheimer's disease**
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- P014** **Genomic and Functional Investigation of the Role of CACNB1 in Autism**
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- P015** **Employing Organoids to Explore Patients-Associated Mechanisms in CDKL5 Deficiency**
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- P019** **Liquid Biopsy for Glioblastoma Immune Evasion by Plasmonic Biosensing of Exosomal PD-L1 or PD-1 from Tumor Cells and Their Associated Microglia**
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- P020** **Developing a peptide inhibitor to alleviate GGGGCC-induced C9ALS/FTD by suppressing RNA and protein toxicities**
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- P048** **Panaxatriol Ginsenoside Attenuates Ischemic Stroke Injury by Inhibiting Neuronal Apoptosis and Neuroinflammation via STAT3 inhibition**
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Neural Methods and Technology

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- P027** **Establishing C. elegans nervous system biophysical atlas by systematic electrophysiology recording**
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- P029** **Rapid rescue of despair behaviors by sonogenetic neuromodulation of the mPFC-DRN pathway**
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- P032** **An improved atlas-guided parcellation framework for generating individualized functionally homogeneous brain atlas**
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