

Society for Chinese Neuroscientists (SCN) 2nd Annual Symposium Program

Location: Boston Marriot Newton
August 7th-9th 2024

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Day 1 (Aug 7th)

Meeting open (sign-in and badge pick-up): 1pm-

Meeting opening: 6:00pm-6:10pm (Yongjie Yang/Dandan Sun)

Introduction of opening keynote talk: (Fen-Biao Gao)

Keynote lecture: 6:10pm-7:10pm

Lily Jan, University of California San Francisco (50' + 10')

"Travel hopefully with the Shaker family of voltage-gated potassium channels"

Yuh Nung Jan, University of California San Francisco

"Mechano-sensitive channels in sensory physiology and development"

Session 1: 7:15pm-8:55pm, New technologies in CNS research (Chair: Dong Kong)

1. Haining Zhong, Oregon Health & Science University (20' + 5')

"In vivo imaging of neuromodulatory signaling"

2. Wei Xu, University of Texas Southwestern Medical Center (20' + 5')

Tracing and Control Neuronal Circuits with Trans-neuronal Viral Vectors

3. Guangping Gao, University of Massachusetts Chan Medical School (20' + 5')

"AAV gene therapy for CNS disorders: considerations inside out"

4. Wenjing Wang, University of Michigan (20' + 5')

"Genetically encoded integration sensors and tools for studying neuromodulatory systems"

Free time: 9:00pm-

Day 2 (Aug 8th)

Breakfast (included): 7am-8:30am

Session 2: 8:30am-10:10am, Neural metabolism and homeostasis (Chair: Judy Liu)

1. Lu Chen, Stanford University (20' + 5')

"The ins and outs of neurexins in homeostatic plasticity and FXS"

2. Zuhang Sheng, National Institute of Neurological Disorders and Stroke (20' + 5')

"Energy Matters: Reprogramming of mitochondrial transport and energy metabolism to power neuron regeneration"

3. Isaac Chiu, Harvard Medical School (20' + 5')

"Neuronal regulation of gut immunity and T regulatory cells through CGRP"

4. Xinyun Lu, Augusta University (20' + 5')

"Disturbed neuronal Yin (AgRP)-Yang (POMC) balance during chronic stress"

Coffee break (10:10am-10:30am)

Session 3: 10:30am-12:10pm, Synaptic plasticity and developmental disorders (Chair: Yang Yang)

1. Wendy Chung, Boston Children's Hospital, Harvard Medical School (20' + 5')

"From N of 1 to population health for genomic medicine"

2. Guoping Feng, Massachusetts Institute of Technology (20' + 5')

"Dissecting neurobiological mechanisms of ASD: from genes to circuits"

3. Zhen Yan, State University of New York (SUNY) at Buffalo (20' + 5')

"Pathophysiological Mechanisms and Treatment Strategies for Autism"

4. Lin Mei, Chinese Institute of Medical Research (CIMR), Beijing (20' + 5')

"Dynamic control of GABAergic transmission by ErbB4 tyrosine kinase"

Session 4: 12:10pm-1:00pm, Short talks from selected abstracts (Chair: Lulu Chen)

1. Xin Tang, Boston Children's Hospital (10' + 3')

"Genetic and epigenetic factors regulating KCC2 function and expression"

2. Felix Chan, Aston University (10' + 3')

"Mitochondrial lysine metabolism for epilepsy in tuberous sclerosis complex"

3. Feng Guo, Indiana University Bloomington (10' + 3')

"Intersection of Brain Organoid and Artificial Intelligence"

4. Sijun Zhu, SUNY Upstate Medical University (10' + 3')

"Combinatorial regulation of compartment-specific targeting of dendrites in the central brain by guidance molecules"

Lunch (included)/Career development discussion: 1:00pm-2:30pm (Moderators: Dandan Sun and Long-Jun Wu)
(Trainee career lunch discussions with senior PIs, 2 senior PIs + 8 trainees/table)

Poster session: 2:30pm-4pm (coffee break: 3:40pm-4:00pm)

Session 5: 4:00pm-5:00pm, Academic leadership discussion (Moderator: Yongjie Yang)

Panelists: Wendy Chung (Boston Children's Hospital, Harvard Medical School), Guoping Feng (Massachusetts Institute of Technology), Xinyun Lu (Augusta University Medical College of Georgia), Riqiang Yan (University of Connecticut Health Center), and Mei Lin (Chinese Institute for Medical Research Beijing)

5pm-7pm, free dinner time

Session 6: 7pm-8:50pm, Glial to neuron signaling in the CNS (Chair: Tuan Leng Tay)

1. Quan Yuan, National Institute of Neurological Disorders and Stroke (20' + 5')

"Glia-derived secretory fatty acid binding protein Obp44a regulates lipid storage and efflux in *Drosophila*"

2. Lu Sun, University of Texas Southwestern Medical Center (20' + 5')

"Cellular and molecular mechanisms governing central nervous system myelination"

3. Xinzhu Yu, University of Illinois Urbana-Champaign (20' + 5')

"Astrocytic modulation of prefrontal neural circuits and anxiety-like behavior"

Selected short talks from abstracts

1. Xin Yang, Brown University (10' + 3')

"UBE3A controls oligodendroglia via estrogen receptor- β signaling in Angelman Syndrome"

2. Wei Wu, Indiana University School of Medicine (10' + 3')

"NG2 glia reprogramming induces robust axonal regeneration after spinal cord injury"

Platinum sponsorship short talk 1: 8:50pm-9:00pm

Carol Xia, GenScript USA Inc. (10')

"Empowering Neuroscience: Reliable Reagent Services by GenScript"

Reception (included, drink/snack): 9:00pm-10pm; Cash bar: 10pm-11pm.

SCN board member business meeting: 10pm-11pm

Day 3 (Aug 9th)

Breakfast (included): 7am-8:30am

Session 7: 8:30am-10:10am, Stem cells and human disease models in the CNS (Chair: Chun-Li Zhang)

1. Xinyu Zhao, University of Wisconsin Madison (20' + 5')
"Interrogate functions of autism genes in neuronal maturation in primate"
2. Shuibing Chen, Weill Cornell Medical College (20' + 5')
"Human Pluripotent Stem Cell-derived Cells/Organoids to Study Viral Infection"
3. Yanhong Shi, Beckman Research Institute of City of Hope (20' + 5')
"Human iPSC-based modeling and cell therapy development for neurological disorders"
4. Juan Song, University of North Carolina (20' + 5')
"Hypothalamic control of adult hippocampal neurogenesis in health and Alzheimer's disease"

Coffee break: 10:10am-10:30am

Session 8: 10:30am-12:10pm, Microglia and Neuroinflammation (Chair: Peng Jiang)

1. Tuan Leng Tay, Boston University (20' + 5')
"Microglia in neuroinflammation: friends or foes?"
2. Xianhua Piao, University of California San Francisco (20' + 5')
"Microglial regulation of human interneuron development"
3. Ren Yi, Florida State University (20' + 5')
"Myelin Debris-Induced Endothelial Inflammation Compromises Blood-Spinal Cord Barrier Integrity after Spinal Cord Injury"
4. Dongfeng Chen, Harvard University (20' + 5')
"Regulating neuroinflammation for neural homeostasis"

Session 9: 12:10pm-1:00pm, Short talks from selected abstracts (Chair: Long-Jun Wu)

1. Wanchao Yang, Second Affiliated Hospital of Harbin Medical University (10' + 3')
"Hydrogen Gas Promotes Microglial M2 Polarization and Alleviates Neuroinflammation After Traumatic Brain Injury via AMPK-Dependent Inhibition of HDAC5"
2. Min Tian, The David Geffen School of Medicine at University of California at Los Angeles (10' + 3')
"Intercellular Signaling Pathways as Therapeutic Targets for Vascular Dementia Repair"
3. Hailan Liu, Baylor College of Medicine (10' + 3')
"Identification of a cold-sensing center in the hypothalamus"
4. Yiyang Zhang, Massachusetts General Hospital/Harvard Medical School (10' + 3')
"Tau Protein and Gut Microbiota Correlation in Patients with Postoperative Delirium"

Lunch (included)/Career development discussion: 1:00pm-2:00pm (Moderators: Dandan Sun and Long-Jun Wu)
(Trainee career lunch discussions with senior PIs, 2 senior PIs + 8 trainees/table)

Session 10: 2:00pm-3:40pm, Neural injury (Chair: Junfang Wu)

1. Jun Chen, University of Pittsburgh (20' + 5')
"Recover from brain injury: the role of myeloid cells"
2. Binhai Zheng, University of California San Diego (20' + 5')
"Predicting regenerative success after CNS injury"
3. Shuxin Li, Temple University (20' + 5')
"Targeting intrinsic and extrinsic factors for regenerating CNS axons"
4. Yang Xiang, University of Massachusetts Chan Medical School (20' + 5')

“Gliotransmission and adenosine signaling promote axon regeneration”

Coffee break: 3:40pm-4:00pm

Session 11: 4:00pm-6:05pm, Neurodegeneration (Chair: Fen-Biao Gao)

1. Hui Zheng, Baylor College of Medicine (20' + 5')

“Glial cell-surface proteins in Alzheimer’s disease”

2. Riqiang Yan, University of Connecticut Health Center (20' + 5')

“The role of BACE1 in glial cells in Alzheimer’s Pathogenesis”

3. Yimin Zou, University of California San Diego (20' + 5')

“Assembly and maintenance of glutamatergic synapses”

4. Jie Jiang, Emory University (20' + 5')

“Gain of toxicity in KIF5A-associated ALS”

Selected short talks from abstracts

1. Fenghua Hu, Cornell University (10' + 3')

“Physiological and pathological functions of TMEM106B, a protein intimately linked to brain aging and brain disorders”

2. Zhe Zhang, Johns Hopkins University School of Medicine (10' + 3')

“PTP σ -Mediated PI3P Regulation as a Therapeutic Strategy for C9ORF72-ALS/FTD”

Platinum sponsorship short talk 2: 6:05pm-6:15pm

Damon Gee, Plexon, Inc. (10')

“SiNAPS by Plexon: A user-friendly alternative to Neuropixels”

Introduction of closing keynote talk: 6:10pm-6:15pm (Fen-Biao Gao)

Keynote lecture: 6:15pm-7:15pm

Virginia Lee, University of Pennsylvania (50' + 10')

“Transmission of Misfolded Proteins in Neurodegenerative Disorders: A Common Mechanism of Disease Progression”

Banquet (included) and social: 7:30pm-9:30pm