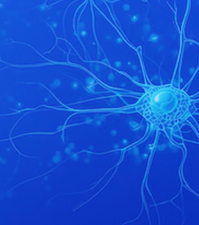




# BRAIN GLYMPHATICS AND MENINGEAL LYMPHATICS SYMPOSIUM

脑类淋巴系统研究进展与医药创新转化专题学术研讨会

# 2026



## 1<sup>st</sup> DAY of the Symposium SATURDAY, January 10<sup>th</sup>, 2026

Location: Mingdao Building, Fenglin Campus of Fudan University

(Address: No.131 Dong An Road, Xuhui District, Shanghai)

8:20-8:30	Opening Speech by Feng-Fei Ding (Fudan University)	
8:30-8:40	<p><b>Welcoming Remarks:</b>            Qun-Ying Lei (Dean of School of Basic Medical Sciences, Fudan University)            Jia-Yi Zhang (Deputy Dean of Institutes of Brain Science, Deputy Director of State Key Laboratory of Brain Function and Disorders, Fudan University)</p>	
<p><b>Keynote Lecture 1</b>            (Chair: Ming-Huan Wang, Tongji Hospital, Huazhong University of Science and Technology)</p>		
8:40-9:15	Jonathan Kipnis (Washington University in St. Louis)	Anatomy of “brainwashing” and how it affects brain’s health
9:15-9:50	Hiroshi Kawasaki (Kanazawa University)	Evolutionary changes of the glymphatic system in the mammalian brain
9:50-10:00	Photo & Coffee Break	
<p><b>Session 1: Sleep and Psychological Disorders</b>            (Chair: Zhi-Li Huang &amp; Feng-Fei Ding, Fudan University)</p>		
10:00-10:20	Rui-Liang Bai (Zhejiang University)	Noninvasive MRI techniques for human neurofluids detection and their applications in human natural sleep
10:20-10:40	Jian-Ren Song (Tongji University)	Hypothalamic MCH neurons orchestrate theta-driven brain clearance during REM sleep
10:45-11:05	Jiang-Fan Chen (Wenzhou Medical University)	40Hz flicker promotes sleep and glymphatic activity via adenosine signaling
11:00-11:20	Feng-Fei Ding (Fudan University)	Extracellular space and sleep-wake regulation
11:20-11:50	Zhi-Li Huang (Fudan University)	Orexin: 从基础研究到临床转化的成功范例 (中文)
11:50-12:20	Fang Han (Peking University People's Hospital)	Application of histamine H3 receptor antagonists in excessive daytime sleepiness (EDS)
12:20-14:00	Poster Session 1	

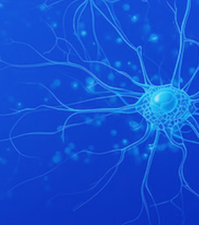




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## Session 2: Immunity System and Central lymphatic System

(Chair: Qing-Yun Li, Ruijin Hospital, Shanghai Jiao Tong University School of Medicine)

14:00-14:20	Qing-Yun Li (Ruijin Hospital, Shanghai Jiao Tong University School of Medicine)	OSA-mediated immune remodeling and comorbidities
14:20-14:40	Bin Wei (Fudan University)	Pathogens invasion and neurological activity regulated meningeal lymphatics
14:40-15:00	Rong Hu (First Affiliated Hospital of Army Medical University)	Deep cervical lymphovenous anastomosis in Alzheimer's Disease: clinical outcomes and preliminary mechanistic insights from mice models
15:00-15:20	Chun-Qing Zhang (Army Medical University)	Arrested lymphatic maturation coincides with cerebral lipid accumulation in epilepsy: uncovering a novel multi-cellular metabolic mechanism
15:20-15:40	Xiang Zhang (Huashan Hospital, Fudan University)	Focusing on inflammation: deciphering the role of IL-6 in neuroimmune and neurodegenerative diseases

## Session 3: Cerebrovascular Diseases

(Chair: Wei Wang & Ming-Huan Wang, Tongji Hospital, Huazhong University of Science and Technology)

15:40-16:00	Yi-Long Wang (Beijing Tiantan Hospital, Capital Medical University)	Skull bone marrow-dural-glymphatic traversal for CNS drug delivery
16:00-16:20	Min Lou (Second Affiliated Hospital of Zhejiang University Medical College)	Impaired meningeal lymphatics and glymphatic pathway in white matter hyperintensity
16:20-16:35	Jie-Min Jia (Westlake University)	Neurovascular coupling in health and stroke
16:35-16:50	Qin Hu (Renji Hospital, Shanghai Jiao Tong University School of Medicine)	Structural and functional remodeling of meningeal lymphatic vessels after ischemic stroke
16:50-17:05	Xiao-Hua Zhu (Tongji Hospital, Huazhong University of Science and Technology)	Preliminary exploration of sigma-1 receptor-targeted PET imaging in ischemic stroke
17:05-17:25	Xiao-Lin Chen (Beijing Tiantan Hospital, Capital Medical University)	Microplastics and nanoplastics in brain tumours and the healthy human brain
17:25-17:35	Coffee Break	

## Keynote Lecture 2

(Chair: Feng-Fei Ding, Fudan University)

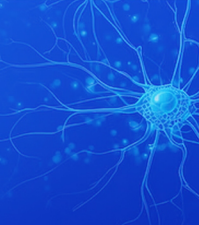
17:35-18:10	Maiken Nedergaard (University of Copenhagen)	Sleep, NE oscillations, and glymphatic flow: redefining brain waste clearance
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## 2<sup>nd</sup> DAY of the Symposium SUNDAY, January 11<sup>th</sup>, 2026

Location: Mingdao Building, Fenglin Campus of Fudan University  
(Address: No.131 Dong An Road, Xuhui District, Shanghai)

### Keynote Lecture 3

(Chair: Jin-Tai Yu Huashan Hospital, Fudan University & Peng Yuan, Fudan University)

8:30-9:05	Jaime Grutzendler (Yale University)	Thromboangioplasty: insights from live brain imaging
9:05-9:40	Steven A. Goldman (University of Rochester)	Glial rejuvenation using trans-glymphatic delivery of gene therapeutics
9:40-9:50	Coffee Break	

### Session 4: Neurodegenerative diseases

(Chair: Jin-Tai Yu, Huashan Hospital, Fudan University & Min Zhang, Tongji Hospital, Huazhong University of Science and Technology)

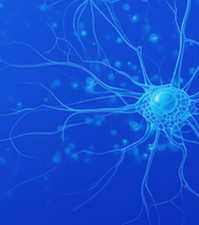
9:50-10:10	Jin-Tai Yu (Huashan Hospital, Fudan University)	Brain glymphatics and CSVD
10:10-10:30	Ming Xiao (Nanjing Medical University)	Central lymphatic system - new therapeutic targets for neurodegenerative diseases
10:30-10:50	Gang Wang (Renji Hospital, Shanghai Jiao Tong University School of Medicine)	MRI-based glymphatic metrics correlate with caudate nucleus dopaminergic deficits and independent of amyloid- $\beta$ pathway in Parkinson's disease: a PET/MRI study
10:50-11:10	Wei-Jye Lin (Sun Yat-sen Memorial Hospital, Sun Yat-sen University)	Calcium-driven metabolic remodeling in astrocytes impairs glymphatic-meningeal lymphatic drainage at early disease stage in a mouse model of Alzheimer's disease
11:10-11:30	Shi Tang (Shandong Provincial Hospital)	Orexin regulating the glymphatic system in Alzheimer's disease
11:30-13:40	Poster Session 2	





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## Session 5: CNS Tools and Translational Advances (Chair: Steven A. Goldman, University of Rochester)

13:40-14:00	Woo-Ping Ge (Chinese Institute for Brain Research)	Brain-blood metabolic exchange
14:00-14:20	Xiao-Peng Zong (Shanghai Tech University)	MRI study of posture-induced changes in CSF flow dynamics in human
14:20-14:40	Lin-Hui Wang (Soochow University)	High-resolution 3D demonstration of regional heterogeneity in the glymphatic system
14:40-15:00	Yi-Chi Su (Fudan University)	Lighting up the brain: next-generation bioluminescent tools for imaging neurochemical dynamics
15:00-15:15	Yi-Qun Wang (Fudan University)	Deep learning-enhanced volumetric and functional neural fluorescence imaging
15:15-15:25	Coffee Break	

## Session 6: Ocular Glymphatics and Cerebrospinal Fluid Biology (Chair: Wei Li, Shanghai Jiao Tong University School of Medicine & Zi-Bing Jin, Beijing Tongren Hospital, Capital Medical University)

### Cerebrospinal Fluid Biology

15:25-15:45	Hong-Yi Li (Beijing Hospital)	Human interstitial fluid circulatory system driven by heartbeat and respiration
15:45-16:05	Li-Cai Zhang (Xuzhou Medical University)	The discovery of CSF-contacting nucleus
16:05-16:20	Mao-Sheng Xia (The First Affiliated Hospital of China Medical University)	The new pathway of cerebrospinal fluid flow to peripheral organs

### Ocular Glymphatics

16:20-16:40	Wei Li (Shanghai Jiao Tong University School of Medicine)	Seeing in the cold-biology of hibernation and its applications
16:40-17:00	Min-Bin Yu (Zhongshan Ophthalmic Center, Sun Yat-Sen University)	The optic nerve glymphatic system: neural injury and protection in optic neuropathy
17:00-17:20	Xiao-Wei Wang (Beijing Tongren Hospital, Capital Medical University)	Ocular glymphatic system
17:20-17:35	Qiu-Chen Cao (The First Affiliated Hospital of Nanjing Medical University)	Brain-eye crosstalk: the ocular glymphatic window into neurodegenerative disease

Closing Remarks: Zhi-Li Huang (Fudan University)

