

## SCIENTIFIC PROGRAM

### SESSION LECTURE

No.40

**Brain Health**  
**Room: Swallow Room 1**

**Co-Chairs:**  
**Yongjun Wang**



**Ulf Per-Erik Eriksson**



#### Day 1 October 19th (Saturday) 14:00 – 18:00

Time	Speaker	Title
Moderators:	<b>Yongjun Wang</b> Beijing Tiantan Hospital, Capital Medical University <b>Ulf Per-Erik Eriksson</b> Karolinska Institutet, Stockholm	
14:00-14:30	<b>Qingming Luo</b> Hainan University	Visualizing Brain-wide Networks at Single-Neuron Resolution with Micro-Optical Sectioning Tomography
14:30-15:00	<b>Yizheng Wang</b> Fudan University	TRPC6 and the Diagnosis of Alzheimer's Disease
15:00-15:30	<b>Ulf Per-Erik Eriksson</b> Karolinska Institutet	Exploring novel signalling pathways affecting stroke pathophysiology and outcome
15:30-15:50	<b>Brief Recess</b>	
Moderators:	<b>Zixiao Li</b> Beijing Tiantan Hospital, Capital Medical University <b>Junhong Zhou</b> Harvard University	
15:50-16:20	<b>Jean-Philippe Hugnot</b> University of Montpellier Institut de Génomique Fonctionnelle (IGF) Jinfeng Laboratory	Adult Neural Stem Cells: From Repair to Tumorigenesis - Insights into Signal Cord Neural Stem Cells and Diffuse Adult Gliomas
16:20-16:50	<b>Wanjin Chen</b> The First Affiliated Hospital of Fujian Medical University	Identification of novel disease-causing genes and conceptual treatment of neurogenetic diseases
16:50-17:20	<b>Yong Shen</b> University of Science and Technology of China	Alzheimer's Disease: what we know and what we don't know? New evidence from pathology and pathogenesis
17:20-17:50	<b>Xiao Yang</b> Institute of Life Histology, Academy of Military Medical Sciences	Mechanisms of cerebrovascular dysfunction leading to central nervous system diseases
17:50-18:00	<b>Zixiao Li</b> Beijing Tiantan Hospital, Capital Medical University	Wrap-up session



### Yongjun Wang

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President of Beijing Tiantan Hospital, Capital Medical University. He is engaged in research related to the etiology and pathogenesis of cerebrovascular disease, and the establishment of key prevention and treatment technologies and systems. He was the first to promote the Stroke Unit in China, and led the release of the first cerebrovascular disease guidelines and industry standards in China.



### Qingming Luo

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President of Hainan University. His research interests focus on multi-scale optical bioimaging and cross-level information integration. His group exploited a series of fluorescence resonance energy transfer (FRET) probes to dynamic monitoring the protease activity in living cells, invented a fast fluorescence microscopy imaging, made fundamental contributions to segmentation and identification of the cyrosection images of Virtual Chinese Human (VCH) and constructed a new 3D anatomical structural datasets of VCH with the smallest voxel resolution.



### Junhong Zhou

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PhD, instructor in Medicine of Harvard University. His research interests include the analysis of nonlinear dynamics of neurophysiological signals related to human cognition and motor control. He has developed expertise in the application of nonlinear signal processing techniques to the physiological signals relating to human locomotor control and the non-invasive techniques to image and stimulate specific brain networks involved in the control of balance when standing and walking.



### Wanjin Chen

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Chief physician and professor of the First Affiliated Hospital of Fujian Medical University. He specialized in rare neurological diseases, neurogenetic diseases and cerebrovascular diseases. His group have discovered several new genes responsible for neurogenetic diseases and used Cas9-mediated SMN2- ISSs disruption in SMA iPSCs and mice to treat aberrant splicing diseases.



### Yong Shen

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Distinguished Chair Professor of University of Science and Technology of China (USTC). His research interests include elucidation of new molecular pathways of neuron survival during neurodegenerative process and discovery of novel therapies for, particular in Alzheimer's disease. He also focuses on the identification and development of biomarkers for early precise diagnosis of Alzheimer's disease and related cerebral small vessel diseases.



### Ulf Per-Erik Eriksson

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Professor Ulf Eriksson is a renowned vascular biochemist at Karolinska Institutet, heading the Vascular Biology Division. His research focuses on growth factors and vascular biology, with over 180 publications and 25 patents. A member of the Nobel Assembly since 2012, he has received numerous awards, including the Distinguished Professor Award from the Swedish Research Council.



### Yizheng Wang

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Academician of the Chinese Academy of Sciences and professor of Fudan University. His main research interests include neurological diseases, vision and brain-like computing. He is engaged in neurobiological research, systematically studying the mechanisms by which ion channels and ion homeostasis affect the survival and development of neurons, as well as their pathological significance in neurological disorders. and leads a team to carry out brain-like computation research inspired by biological vision.



### Jean-Philippe Hugnot

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Full Professor of Neurosciences and Cellular Biology at the University of Montpellier. Lead researcher of the " Brain plasticity, stem cells and low grade gliomas " team. Additional affiliations with the Institut de Génétique Fonctionnelle (IGF) in Montpellier, France, and Jinfeng Laboratories in Chongqing, China. Renowned for research on spinal cord, cancer stem cells, and the Kv8.1 potassium channel subunit. Author of over 80 scientific articles. Recipient of fellowships from the European Molecular Biology Organization (EMBO) and the French Ministry of Health.



### Zixiao Li

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Deputy Director of the Neurology Centre of Beijing Tiantan Hospital, Capital Medical University. He has long been engaged in the research of key technologies and strategies for medical quality improvement of cerebrovascular diseases. He has established clinical key technical indicators affecting the medical quality of cerebrovascular disease in China, created a medical quality improvement compound strategy to promote the translation of diagnostic and treatment key technologies to the clinic, and set up a national efficient promotion platform.



### Xiao Yang

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Senior Investigator at State Key Laboratory of Medical Proteomics. She has been a lab chief between 2001 and 2017. Her lab established the earliest platform for generating conditional gene-knockout mice in China. The primary interest of her laboratory is to understand the mechanisms of tissue homeostasis and diseases, including how dysfunctional cerebrovasculature contributes to central nervous system diseases. She has published over 180 articles in SCI-indexed journals with an H-index of