

## SCIENTIFIC PROGRAM

### SESSION LECTURE

No.42

Animal Models on Human Diseases

Room: Dong Yu Grand Ballroom 2

Cochair:  
Qin Chuan



#### Day 2 October 20th (Sunday) 09:00 – 12:30

Time	Speaker	Title
09:00-09:30	<b>Qin Chuan</b> Institute of Laboratory Animal Sciences, Chinese Academy of Medical Sciences&Peking Union Medical College, China	TBD
09:30-10:00	<b>Zhang Chen</b> Capital Medical University, China	Restoration of FMRP expression rescues visual deficits in a mouse model of fragile X syndrome
10:00-10:30	<b>Xu Qi</b> Neuroscience Center, Chinese Academy of Medical Sciences&Peking Union Medical College, China	Leveraging Non-Human Primate Models for Advancing Brain Disease Research and Drug Development
10:30-11:00	<b>Tea Break</b>	
11:00-11:30	<b>Yang Qingwu</b> Neurology department, the Second Affiliated Hospital of the Army Medical University, China	Advances and Challenges in Stroke Research Using Animal Models
11:30-12:00	<b>Liu Yong</b> School of Artificial Intelligence, Beijing University of Posts and Telecommunications, China	Characterization and Mechanistic of Brain Abnormalities in Alzheimer's Disease Based on Multi-source Heterogeneous Imaging Data
12:00-12:30	<b>Zhao Yaofeng</b> China Agricultural University	National Research Facility for Model Pigs



### Qin Chuan

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Qin Chuan is a member of Chinese Academy of Medical Science (CAMS), permanent professor and doctoral supervisor of Peking Union Medical College, senior scientist of Institute of Laboratory Animal Sciences, CAMS&PUMC, vice-president of Chinese Women Scientists, president of Chinese Association for Laboratory Animal Sciences (CALAS), director of National Technical Committee 281 on Laboratory Animal of Standardization Administration of China and National Human Disease Animal Model Resource Center.



### Zhang Chen

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Dr. Zhang Chen obtained his Bachelor's Degree from the University of Science and Technology of China in 1998 and subsequently completed his Ph.D. at the Institute of Neuroscience, Chinese Academy of Sciences in 2023. Following a six-year postdoctoral training in Dr. Thomas Südhof's laboratory, he established his own research group at Peking University in 2010. In 2018, Dr. Zhang transitioned to Capital Medical University, where he currently serves as a Professor and Vice President. He is also serving as Co-Chief Editor of the 'Neuroscience' Journal (the official journal of the International Brain Research Organization). His research focuses on elucidating the molecular mechanisms underlying synaptic formation and regeneration, with a particular focus on their implications in the pathogenesis and progression of Alzheimer's disease.



### Xu Qi

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Professor Xu is tenured faculty member at the Chinese Academy of Medical Sciences and serves as the Deputy Director of the Neuroscience Center. With over 20 years of experience, Professor Xu has been at the forefront of cutting-edge neuroscience research, focusing on the pathogenesis of major brain disorders such as depression, Alzheimer's disease, and epilepsy. Her laboratory is renowned for its multidisciplinary approach, combining molecular genetics, electrophysiology, optical imaging, optogenetics, and advanced behavioural assays. This comprehensive methodology enables her to explore the molecular, cellular, physiological, and circuit-level mechanisms and identify key targets and neural networks involved in neurological diseases. By effectively bridging clinical patient studies with disease models in rodents and non-human primates, Professor Xu's research offers valuable insights into the mechanisms underlying complex neurological conditions.



### Yang Qingwu

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Qingwu Yang is the Director of Neurology department at the Second Affiliated Hospital of the Army Medical University. He is a Professor, Chief Physician, and Doctoral Supervisor, he serves as the Deputy Dean of the Institute of Brain and Intelligence Research of the Army Medical University and a senior researcher at the Chongqing Institute for Brain and Intelligence. He is a recipient of the National Science Fund for Distinguished Young Scholars, Chang Jiang Scholars Program of Ministry of Education of China, National "Ten Thousand People Plan" Leading Talents, outstanding scientist of the Chongqing Talent Plan, and a State Council Special Allowance Expert. He serves as a member of the Chinese Society of Neurology and President of the Chongqing Stroke Society. He is an associate editor, executive editor, and editor of 12 Chinese and International journals, including Translation Stroke Research, Frontier in Neuroscience, Stroke Vascular Neurology, Brain Hemorrhages, Chinese Journal of Neurology, and Brain (Chinese Edition). With extensive experience in diagnosing and treating critical and difficult diseases in neurology and neuroradiology, his main area of research is in the basic and clinical translational research of acute cerebrovascular disease prevention and treatment. In recent years, as the first person in charge, he has presided over more than 20 research projects at all levels, such as the National Science Fund for Distinguished Young Scholars, the National Natural Science Foundation Major and Key program, and the National Program on Key Basic Research Project (973 Program). As a corresponding author, he has published more than 80 papers in high-impact journals such as NEJM, JAMA, JAMA Neurology, Circulation, Ann Neurol, Prog Neurobiol, Stroke, J Immunol, J Biol Chem.



### Liu Yong

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Professor, School of Artificial Intelligence, Beijing University of Posts and Telecommunications. Dr. Yong Liu received his PhD from the Institute of Automation, Chinese Academy of Sciences (CASIA) in 2008 and his MSc from Beijing University of Technology in 2005. From June 2008 to January 2021, he worked as an assistant/associate/full professor at CASIA. He was a visiting scholar from April 2011 to March 2012 in the Brain Mapping Unit at the University of Cambridge, where he worked with Professor Ed Bullmore. Dr. Yong Liu has authored over 100 peer-reviewed journal articles (including eClinicalMedicine, Advanced Science, Brain, Biological Psychiatry, Science Bulletin, Neurolmage) and has an h-index of 52. In recent years, his work has focused on studying generalizable, reproducible, and neuroscientifically interpretable imaging biomarkers for Alzheimer's Disease based on multi-center and multi-modal imaging.



### Zhao Yaofeng

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Dr. Zhao has been serving as a professor at China Agricultural University since 2006. He received his Ph.D. degree in Animal Genetics in 1998 at China Agricultural University. From 1998 to 2006, he did his postdoctoral work in Karolinska Institute, Sweden. Over the past twenty years, Dr. Zhao has focused his studies on animal immunogenetics. Until now, he has published more than 130 papers in peer-reviewed international journals. In 2007, he was awarded the National Science Fund for Distinguished Young Scholars by the National Science Foundation of China. He is now the director of the State Key Laboratory of Animal Biotech Breeding, president of Chinese Society of Agricultural Animal Biotechnology