AUTISM & NEURODEVELOPMENT DISORDERS: FROM GENETIC DISCOVERIES TO INTERVENTIONS

June 17–June 21, 2024

Arranged by

Eunjoon Kim, Korea Advanced Institute of Science and Technology
Zilong Qiu, Shanghai Jiao Tong University
Jonathan Sebat, University of California, San Diego
Toru Takumi, Kobe University School of Medicine
Xiang Yu, Peking University
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<td>Monday</td>
<td>7:00 pm</td>
<td><strong>Keynote Speaker</strong></td>
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<td>1 Developmental and Circuit Mechanisms I</td>
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<td>Tuesday</td>
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<td>2 Autism Genetics</td>
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<td><strong>Poster Session</strong></td>
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<td><em>Chinese Tea and Beer Tasting</em></td>
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<td>3 Molecular, Cellular, Synaptic Mechanisms I</td>
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<td><strong>Visit to Old Suzhou</strong></td>
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<td>5 Clinical / Translational Studies I</td>
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<td>Cocktails and Banquet</td>
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<td>Friday</td>
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<td>8 New Models and Translational Studies</td>
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Oral presentation sessions are located in the CSHA Auditorium. Poster session and Chinese Tea & Beer Tasting are in the Lake Front Hall. Cocktail social hour is held outside in the Suz Garden. Old Suzhou visits depart from the CSHA lobby.

*optional tour requires additional fee.

Meal locations and times are as follows:
- Lunch: Main Cafeteria 12:00am - 1:30pm
- Dinner: Main Cafeteria 6:00pm - 7:30pm
- Banquet: Suz Garden 7:00pm

More information will be available at CSHA office.

(Map at the end of this abstract book)
PROGRAM

MONDAY, June 17—7:00 PM

SESSION 1 DEVELOPMENTAL AND CIRCUIT MECHANISMS I

Chairperson: Zilong Qiu, Shanghai Jiao Tong University School of Medicine, Shanghai, China

KEYNOTE SPEAKER

Advancements in neurodevelopmental disease models using genetically-modified marmosets
Hideyuki Okano [35'+10']
Presenter affiliation: Keio University, Kawasaki, Japan; RIKEN, Wako, Japan.

Break

Oxytocin and autism—Insights from PVH oxytocin neuron inputs and outputs
Xiang Yu [20'+5']
Presenter affiliation: Peking University, Beijing, China.

Abnormal theta oscillation induces social deficits via attenuating synaptic density
Shuai-Shuai Wang, Ying-Mei Lu [10'+5']
Presenter affiliation: Nanjing Medical University, Nanjing, China.

TUESDAY, June 18—9:00 AM

SESSION 2 AUTISM GENETICS

Chairperson: Jonathan Sebat, University of California, San Diego, La Jolla, California, USA

Dissecting the genetic, biological and phenotypic heterogeneity of the autism spectrum
Jonathan Sebat [20'+5']
Presenter affiliation: University of California, San Diego, La Jolla, California.
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<tr>
<th>Title</th>
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<tr>
<td>Genetics of autism spectrum disorder in Chinese population</td>
<td>Kun Xia</td>
<td>School of Life Sciences, Central South University Changsha, Hunan, China; Hengyang Medical School, University of South China, Hengyang, Hunan, China.</td>
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<td>Abnormal cortical dynamics during behavioral transition in 15q11-13 CNV mice</td>
<td>Nobuhiro Nakai</td>
<td>Kobe University, Kobe, Japan.</td>
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<td>Integrative analyses of de novo mutations in 62,661 trios with autism and developmental delay</td>
<td>Shilin Gao, Xiaoli Rao, Yue Xu, Panhui Tian, Chaoyi Shan, Jiaqi Li, Rong Zhang, Tianyun Wang</td>
<td>Neuroscience Research Institute, School of Basic Medical Sciences, Peking University, Beijing, China.</td>
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<td>Break</td>
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<td>Deciphering the genetic architecture of psychiatric disorders leveraging the diversity of the human genome</td>
<td>Hailiang Huang</td>
<td>Broad Institute of MIT and Harvard, Cambridge, Massachusetts; Massachusetts General Hospital, Boston, Massachusetts; Harvard Medical School, Boston, Massachusetts.</td>
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<td>The polygenetic architecture of autism</td>
<td>Jing Zhang, Jakob Grove, Caitlin E. Carey, Jack M. Fu, F K. Satterstrom, Susan S. Kuo, Ajay Nadig, Swapnil Awasthi, Kaitlin E. Samocha, Anders D. Børglum, Elise B. Robinson</td>
<td>Broad Institute of MIT and Harvard, Cambridge, Massachusetts; Massachusetts General Hospital, Boston, Massachusetts.</td>
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<td>CRISPR screens in assembloids reveal autism spectrum disorder genes that interfere with human interneuron development</td>
<td>Xiangling Meng, David Yao, Kent Imaizumi, Xiaoyu Chen, Kevin Kelley, Noah Reis, Mayuri Thete, Michael Bassik, Sergiu Pasca</td>
<td>Stanford University, Stanford, California.</td>
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Protein phosphatase-1 and 2A in health and neurodevelopmental disorders
Houhui Xia, Karl Foley, Abigail Mayer, Cody McKee, Angus Nairn, Stefan Strack, Veerle Janssens
Presenter affiliation: University of Rochester, Rochester, New York.

TUESDAY, June 18—2:00 PM

POSTER SESSION

Low-dose IL-2 improves neuronal mitochondrial function, reduces oxidative stress, and ameliorates autism symptoms
Penghao Yao, Xia Cao
Presenter affiliation: The Second Affiliated Hospital of Kunming Medical University, Kunming, China.

Low-dose IL-2 therapy reverses Teff/Treg imbalance and improves core symptoms in BTBR mice
Meng Li, Xia Cao
Presenter affiliation: The Second Affiliated Hospital of Kunming Medical University, Kunming, China.

Association of the retinol to all-trans retinoic acid pathway with autism spectrum disorder
Yu-Ru Feng, Qian Zhang, Jing-Kun Miao, Ting Yang, Jie Chen, Hong-Yu Chen, Qiu-Hong Mou, Xue-Li Xiang, Dan Long, Qiu-Hong Wei, Yuan Wu, Ting-Yu Li
Presenter affiliation: Children's Hospital of Chongqing Medical University, Chongqing, China.

Disruption of developmental spontaneous neuronal activity mimics autism spectrum disorder model in Drosophila
Sarani Dey, Sharba Bandyopadhyay, Abhijit Das
Presenter affiliation: Indian Institute of Technology Kharagpur, Kharagpur, India.

Srcap haploinsufficiency induced autistic-like behaviors in mice through disruption of Satb2 expression
Chaodong Ding, Wei Zhou, Yuhua Shi, Shifang Shan, Yiting Yuan, Yuefang Zhang, Fei Li, Zilong Qiu
Presenter affiliation: Songjiang Research Institute, Shanghai, China; Institute of Neuroscience, Shanghai, China.
Effective in vivo RNA base editing via engineered cytidine deaminase APOBECs fused with PUF proteins
Wenjian Han, Bo Yuan, Xiaojuan Fan, Weike Li, Zefeng Wang, Zilong Qiu
Presenter affiliation: Shanghai Jiao Tong University School of Medicine, Shanghai, China.

Alteration of parvalbumin (PV) expression and activity of cortical PV neurons by azadiradione
Sudipta Jana, Bhaskarjyoti Giri, Sagarka Das, Sharbar Bandopadhayay, Nihar R. Jana
Presenter affiliation: IIT Kharagpur, Kharagpur, India.

Early postnatal blockade of GABAergic receptor induces autism-like behavioral phenotypes in mice
Se Jin Jeon, Chan Young Shin
Presenter affiliation: Hallym University, Chuncheon, South Korea.

CSDE1 mediates neurogenesis via post-transcriptional regulation of cell cycle
Xiangbin Jia, Kun Xia, Hui Guo
Presenter affiliation: Central South University, Changsha, China.

Deletions of Cacna2d3 in parvalbumin expressing neurons leads to autistic-like phenotypes in mice
Wei Shao, Hang Zheng, Liang Jing, Kai Wang, Xiao Jiang
Presenter affiliation: Anhui Medical University, Hefei, China.

Postnatal age-differential ASD-related transcriptomic, synaptic, and behavioral deficits in Myt1l-mutant mice
Seongbin Kim, Jae Jin Shin, Yeji Yang, Hyoseon Oh, Hyo Jin Kang, Jin Young Kim, Eunjoon Kim
Presenter affiliation: Korea Advanced Institute for Science and Technology, Daejeon, South Korea.

Sexually dimorphic behavior, neuronal activity and gene expression in Ash1l mutant mice
Jisoo Kim, Seoyeong Kim, Seungjoon Lee, Yunho Lee, Yeji Yang, Muwon Kang, Soowon Lee, Young Woo Noh, Hyun Kim, Seong-Gi Kim, Hyojin Kang, Jin Young Kim, Eunjoon Kim
Presenter affiliation: Korea Advanced Institute of Science and Technology (KAIST), Daejeon, South Korea.
Gene dosage-differential sexual dimorphism in CHD8-mutant mice
Presenter affiliation: Korea Advanced Institute for Science and Technology (KAIST), Daejeon, South Korea.

Language subtypes in young autistic children and the influence of parental education, educational environment and diet
Qin Li, Weihua Zhao, Rong Zhang, Keith M. Kendrick
Presenter affiliation: Chengdu University of Traditional Chinese Medicine, Chengdu, China.

An EED/PRC2-H19 loop regulates cerebellar development
Pei-Pei Liu, Xiao Li, Lin-Fei Jiao, Zhao-Qian Teng, Yun-Gui Yang, Chang-Mei Liu
Presenter affiliation: Institute of Zoology, Chinese Academy of Sciences, Beijing, China.

Autism-like behaviors and impaired spine pruning in a Pten haploinsufficiency mouse model
Laixin Liu, Yuanyuan Zhang, Jiaqi Shen, Xiang Yu
Presenter affiliation: Peking University, Beijing, China; Peking University, Academy for Advanced Interdisciplinary Studies, China.

Reduced cortical connectivity and multisensory integration in the Shank3Δ14–16 mice
Seung-Mi Oh, You-Hyang Song, Hae-Yong Park, Jun-Ho Song, Jae-Hyun Kim, Eunjoon Kim, Se-Bum Paik, Seung-Hee Lee
Presenter affiliation: KAIST, Daejeon, South Korea; Institute for Basic Science, Daejeon, South Korea.

Neural mechanisms and intervention of impaired somatosensory processing in autism-associated Shank3 mutant dogs
Qi Shi, Liang Wu, Baolong Ren, Kun Guo, Yong-hui Jiang, Yong Q. Zhang, Li Hu
Presenter affiliation: Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, Beijing, China.
Microbial engineering paves new ways in neurodevelopment therapy
Jing Wang, Weijun Feng, Bing Han
Presenter affiliation: Children’s Hospital of Fudan University, Shanghai, China.

Ash1l dysfunction in microglia induces autistic-like social behavior defects
Yuze Yan, Gang Zhou, Cheng Zhang, Hong Xie, Ji-Song Guan
Presenter affiliation: ShanghaiTech University, Shanghai, China.

Dysfunction of the primary visual cortex leads to visual impairments in a Grin2b+/C456Y mouse model of ASD
Jong-Yeon Yoo, Ilsong Choi, Eunjoon Kim, Seung-Hee Lee
Presenter affiliation: Korea Advanced Institute of Science and Technology (KAIST), Daejeon, South Korea; Institute for Basic Science (IBS), Daejeon, South Korea.

TUESDAY, June 18—3:00 PM
Chinese Tea and Beer Tasting

TUESDAY, June 18—7:00 PM

SESSION 3  MOLECULAR, CELLULAR, SYNAPTIC MECHANISMS I

Chairperson: Eunjoon Kim, Korea Advanced Institute of Science and Technology, Daejeon, Korea

A novel transcription regulatory mechanism underlying brain development
Irina Voineagu [20'+5']
Presenter affiliation: University of New South Wales, Sydney, Australia.

NMDAR dysfunction in mouse models of autism spectrum disorders
Eunjoon Kim [20'+5']
Presenter affiliation: IBS, Daejeon, South Korea; KAIST, Daejeon, South Korea.
Turnover and replacement—From microglia with love
Bo Peng [10’+5’]
Presenter affiliation: Fudan University, Shanghai, China. 34

Reversal of neurological defects in a mouse model of microcephaly-capillary malformation syndrome
Meixin Hu, Jun Li, Jingxin Deng, Chunxue Liu, Yingying Liu, Huiping Li, Weijun Feng, Xiu Xu [10’+5’]
Presenter affiliation: Children’s Hospital of Fudan University, Shanghai, China. 35

Break

Ash1-expressing microglia gates social behavior
Yuze Yan, Gang Zhou, Cheng Zhang, Hong Xie, Ji-Song Guan [20’+5’]
Presenter affiliation: ShanghaiTech University, Shanghai, China. 36

Automated analysis of rodent behavior using IntelliProfiler—a potential tool for studying neurodevelopmental disorder-like model mice
Shohei Ochi, Sander van der Graaf, Hitoshi Inada, Noriko Osumi [10’+5’]
Presenter affiliation: Tohoku University Graduate School of Medicine, Sendai, Japan. 37

MSL1 is involved in intellectual disability by facilitating acetylation of H4K16 through enriching histone H4 and acetyl-coenzyme A with liquid-liquid phase separation
Kan Yang, Zilong Qiu, Fei Li [10’+5’]
Presenter affiliation: Shanghai Jiao Tong University School of Medicine, Shanghai, China. 38
SESSION 4  MOLECULAR, CELLULAR, SYNAPTIC MECHANISMS II

Chairperson: Zilong Qiu, Shanghai Jiao Tong University School of Medicine, Shanghai, China

Neuronal gene regulation by alternative mRNA isoforms
Yalan Yang, Runwei Yang, Xiaochang Zhang [20'+5']
Presenter affiliation: The University of Chicago, Chicago, Illinois. 39

Organoid model of neonatal brain hypoxic injury uncovers circadian regulation of synapse engulfment in astrocytes
Li Li, Jong Bin Choi, Chi Hong Shin, Anna Voss, Erin M. Gibson, Julia A. Kaltschmidt, Steven A. Sloan, Won-Suk Chung, Anca M. Pasca [20'+5']
Presenter affiliation: Stanford University, Palo Alto, California. 40

Prefrontal-thalamic information processing during social interaction
Yang Zhan, Bailu Si, Xinnian Wang, Surui Xu [10'+5']
Presenter affiliation: Shenzhen Institute of Advanced Technology, CAS, Shenzhen, China. 41

Proteomic study of cell signaling in the primary cilium in brain development and diseases
Xiaoliang Liu, Eva Cai, Jingyi Zhang, Oscar Torres Gutierrez, Xuecai Ge [10'+5']
Presenter affiliation: University of California, Merced, Merced, California. 42

Break

Effectiveness of bumetanide treatment in children aged 3 to 6 years with autism spectrum disorder
Fei Li [20'+5']
Presenter affiliation: Xinhua Hospital, Shanghai Jiao Tong University School of Medicine, Shanghai, China. 43

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Inhibiting proBDNF to mature BDNF conversion leads to ASD-like phenotypes in vivo
Feng Yang, He You, Toshiyuki Mizui, Yasuyuki Ishikawa, Keizo Takao, Tsuyoshi Miyakawa, Xiaofei Li, Ting Bai, Kun Xia, Lingling Zhang, Dizhou Pang, Yiran Xu, Changliang Zhu, Masami Kojima, Bai Lu [10'+5']
Presenter affiliation: Beijing Tiantan Hospital, Beijing, China.

Neurodevelopmental abnormalities of human 15q11-13 chromosome duplication autism mouse model and potential intervention strategies
Chuan Xing, Tian-Jia Song, Yu-Yang Guo, Yi-Xuan Zhang, Pei-Yuan Jia, Dan Zhang, Han Zhang, Xiang Yu [10'+5']
Presenter affiliation: Peking University, Beijing, China.

WEDNESDAY, June 19—2:00 PM
Visit to Old Suzhou

WEDNESDAY, June 19—7:00 PM

SESSION 5  CLINICAL / TRANSLATIONAL STUDIES I

Chairperson: Xiang Yu, Peking University, Beijing, China

Translational research approach to social orienting deficits in autism—The role of superior colliculus-ventral tegmental pathway
Camilla Bellone [20'+5']
Presenter affiliation: University of Geneva, Geneva, Switzerland.

Hypo-arousal or hyperarousal? The mechanisms underlying social information processing in autism
Li Yi, Qiandong Wang, Ci Song, Zhuo R. Han [20'+5']
Presenter affiliation: Peking University, Beijing, China.

Break

Discovering translational biomarkers in neurodevelopmental conditions—EEG profile in mouse models of idiopathic and syndromic autism
Ning Cheng [10'+5']
Presenter affiliation: University of Calgary, Calgary, Canada.
Distinguishing autistic from typical developing children using multiple eye-tracking tasks
Dan Xu, Linghong Huang, Xiangqin Wang, Yanan Qing, Menghan Zhou, Lei Liu, Xiaojiao Yang, Weihua Zhao, Qin Li, Jiao Le, Keith M. Kendrick [10'+5']
Presenter affiliation: University of Electronic Science and Technology of China, Chengdu, China.

Developing oxytocin as a therapeutic intervention for autism spectrum disorder
Keith M. Kendrick [20'+5']
Presenter affiliation: University of Electronic Science and Technology of China, Chengdu, China.

Clinical phenotype and genetic characteristics of patients with SHANK3 gene variants
Chunxue Liu, Jingxin Deng, Yi Wang, Xiu Xu [10'+5']
Presenter affiliation: Children's Hospital of Fudan University, Shanghai, China.

THURSDAY, June 20—9:00 AM

SESSION 6 DEVELOPMENTAL AND CIRCUIT MECHANISMS II

Chairperson: Eunjoon Kim, Korea Advanced Institute of Science and Technology, Daejeon, Korea

PQBP1 regulates social novelty through modulating glutamate signaling in nucleus accumbens medial shell D1-MSNs
Song Li, Zi-Chao Zhang, Junhai Han [20'+5']
Presenter affiliation: Southeast University, Nanjing, China.

Neural circuit mechanisms of empathy impairments in autism spectrum disorders
Boxing Li [20'+5']
Presenter affiliation: Sun Yat-sen University, Guangzhou, China.

Dentate gyrus morphogenesis is regulated by an autism risk gene trio function in granule cells
Mengwen Sun, Xiaoxuan Sun, Dai Zhang, Jun Li [10'+5']
Presenter affiliation: Peking University Sixth Hospital, Peking University Institute of Mental Health, Beijing, China; Peking University, Beijing, China.
Altered auditory cortical representation of context specific vocalization sequences in a mouse model of autism spectrum disorders
Srishti Jain, Purba Mandal, Swapna Agarwalla, Sharba Bandyopadhyay [10'+5']
Presenter affiliation: IIT Kharagpur, Kharagpur, India. 55

Break

Sensory and multisensory deficits in mouse models of autism
Seung-Hee Lee [20'+5']
Presenter affiliation: KAIST, Daejeon, South Korea; IBS, Daejeon, South Korea. 56

Basal forebrain circuitry for social interaction behavior
Han Xu [20'+5']
Presenter affiliation: Zhejiang University, Hangzhou, China. 57

Spontaneous neuronal activity induced transcriptional regulation mediated by Mef2 in the origin of autism spectrum disorder
Sarani Dey, Sharba Bandyopadhyay, Abhijit Das [10'+5']
Presenter affiliation: Indian Institute of Technology Kharagpur, Kharagpur, India. 58

Cntnap3 mutation impairs claustral function leading to abnormal social behavior
Zimeng Li, Zhuolei Jiao, Kan Yang, Zhifang Chen, Xiaohong Xu, Zilong Qiu [10'+5']
Presenter affiliation: Shanghai Jiaotong University School of Medicine, Shanghai, China; Chinese Academy of Sciences, Shanghai, China. 59

THURSDAY, June 20—2:00 PM

SESSION 7  CLINICAL / TRANSLATIONAL STUDIES II

Chairperson: Toru Takumi, Kobe University School of Medicine, Kobe, Japan

Modeling autism
Toru Takumi [20'+5']
Presenter affiliation: Kobe University School of Medicine, Kobe, Japan. 60
Connectopathy in the frontotemporal network of a schizophrenia rat model—Implications for auditory hallucinations
Hiroyuki Nawa, Manavu Tohmi, Hisaaki Namba [20'+5']
Presenter affiliation: School of Pharmaceutical Sciences, Wakayama Medical University, Wakayama, Japan. 61

Clinically integrated research platforms for transformational science in neurodevelopment
Adam J. Guastella [20'+5']
Presenter affiliation: University of Sydney, Sydney, Australia. 62

Shank3 loss-of-function combined with abnormal nurturing environment led to active-but-odd social deficits-involvement of oxytocin system
Ming J. Li, Yu F. Wu, Xue W. Wang, Xing Y. Lan, Yong Zhang, Rong Zhang [10'+5']
Presenter affiliation: Peking University, Beijing, China; Ministry of Education/National Health Commission, Beijing, China; Peking University Health Science Center, Beijing, China. 63

Application of nanotechnology for brain vascular targeting drug delivery
Jiukuan Hao [10'+5']
Presenter affiliation: University of Houston, Houston, Texas. 64

Facial characteristics description and classification based on 3D images of Fragile X syndrome in a retrospective cohort of young Chinese male
Jieyi Chen, Siyuan Du, Xinran Dong, Wenhao Zhou, Qiong Xu [10'+5']
Presenter affiliation: Children's Hospital of Fudan University, Shanghai, China. 65

THURSDAY, June 20—6:00 PM

COCKTAILS and BANQUET
SESSION 8  NEW MODELS AND TRANSLATIONAL STUDIES

Chairperson:  Xiang Yu, Peking University, Beijing, China

Love, death, and oxytocin—The challenges of mouse maternal care  
Robert C. Froemke  [20'+5']  
Presenter affiliation: NYU Grossman School of Medicine, New York, New York.

Face processing impairment in autism-associated Shank3 mutant dogs  
Yong Q. Zhang  [20'+5']  
Presenter affiliation: Chinese Academy of Sciences, Beijing, China.

Anterior cingulate cortex-related functional hyperconnectivity underlies sensory hypersensitivity in Grin2b-mutant mice  
Soowon Lee, Won Beom Jung, Heera Moon, Geun Ho Im, Young Woo Noh, Wangyong Shin, Yong Gyu Kim, Jee Hyun Lee, Seok Jun Hong, Yongwhan Jung, Sunjoo Ahn, Seong-Gi Kim, Eunjoon Kim  [10'+5']  
Presenter affiliation: Korea Advanced Institute of Science and Technology, Biological Sciences, South Korea.

Break

Whole-brain in vivo base editing reverses autistic-like behavioral in Mef2c mutant mice  
Wei-Ke Li, Shu-Qian Zhang, Tian-Lin Cheng, Zi-Long Qiu  [20'+5']  
Presenter affiliation: Shanghai Jiao Tong University School of Medicine, Shanghai, China.

Atypical face processing in autism-associated Shank3 mutant dogs  
Siqi Yuan, Chenyu Pang, Liang Wu, Li Yi, Kun Guo, Yong Q Zhang, Shihui Han  [10'+5']  
Presenter affiliation: Chinese Academy of Sciences, Beijing, China; University of the Chinese Academy of Sciences, Beijing, China.

Deciphering the molecular mechanisms of MIR137 dysregulation in autism spectrum disorder  
Ying Cheng  [10'+5']  
Presenter affiliation: Yunnan University, Kunming, China.