

Poster Program

Thursday 10 November, 10:30 – 12:00

Friday 11 November, 09:50 – 10:50

[P001]	Synaptic defects in human neurons derived from autism spectrum disorders patients A. Muotri, <i>University of California, USA</i>
[P002]	A large autism cohort reveals genomic imbalances associated with many known syndromic deletions and also those linked to potentially novel neurodevelopmental genes S. Aradhya*, D. Riethmaier, E. Butler, S. Sperber, J. Meck, G. Richard, <i>GENEDX, USA</i>
[P003]	High prevalence of the cerebral folate receptor autoantibody in autism and significant response to folic acid treatment R. Frye ¹ , D. Rossignol ² , ¹ <i>University of Texas, USA</i> , ² <i>International Child Development Resource Center, USA</i>
[P004]	Mitochondrial dysfunction in children with autism: Relationships between complex activity, oxidative stress and autistic behaviors R. Frye ¹ , J. James ² , B. Malmberg ¹ , H. Taylor ¹ , R. De la Torre ¹ , ¹ <i>University of Texas Health Science Center Houston, USA</i> , ² <i>University of Arkansas Medical School, USA</i>
[P005]	Evidence for a central auditory processing marker of autism R. Rembrandt*, H. Pratt, <i>Technion, Israel</i>
[P006]	Long non-coding RNAs are dysregulated in autism post-mortem prefrontal cortex and cerebellum M.N. Ziats ^{1,2} , O.M. Rennert ¹ , ¹ <i>Laboratory of Clinical Genomics, USA</i> , ² <i>University of Cambridge, UK</i> , ³ <i>Baylor College of Medicine, USA</i>
[P007]	Maternal immune activation chronically alters cytokine levels in the postnatal offspring P.A. Garay ¹ , E. Hsiao ² , P.H. Patterson ² , A.K. McAllister ¹ , ¹ <i>University of California, USA</i> , ² <i>California Institute of Technology, USA</i>
[P008]	Rapid retrograde signals driven by mTORC1-dependent local protein synthesis in dendrites F. Henry*, A. Perex, C. Carruthers, M. Sutton, <i>University of Michigan, USA</i>
[P009]	Neuroanatomical differences in a mouse model of rett syndrome J. Ellegood*, J.P. Lerch, R.M. Henkelman, <i>Hospital for Sick Children, Canada</i>
[P010]	Power law scaling of neuronal maturation gene expression programs: A possible link to autism spectrum disorders M.D. Alter*, M.J. Gandal, A. Nesbitt, R.D. McCurdy, <i>University of Pennsylvania, USA</i>
[P011]	Autistic-like phenotype of mice haploinsufficient for the autism candidate gene <i>Neurobeachin</i> J.W. Creemers*, K. Nuytens, I. Gantois, P. Stijnen, R. D'Hooge, <i>K.U. Leuven, Belgium</i>
[P012]	Impaired cerebellar synaptic transmission and plasticity in a mouse model of autism C. Piochon ¹ , T. Takumi ¹ , C. Hansel ¹ , ¹ <i>University of Chicago, USA</i> , ² <i>Hiroshima University, Japan</i>
[P013]	Characterization of human iPS cell-derived neurons from patients with timothy syndrome on organotypic rat slices R. Mao*, S. Pasca, T. Portmann, <i>Stanford University, USA</i>
[P014]	Hyperconnectivity and slow synapses during early development of medial prefrontal cortex in a mouse model for mental retardation and autism G.T. Silva ¹ , A. Loebel ² , M. Guigliano ^{3,4} , C.P. de Kock ¹ , H.D. Mansvelder ¹ , R.M. Meredith ¹ , ¹ <i>VU University Amsterdam, The Netherlands</i> , ² <i>Ludwig-Maximilians-University, Germany</i> , ³ <i>University of Antwerp, Belgium</i> , ⁴ <i>Brain Mind Institute, Switzerland</i>
[P015]	Home cage observations of interactions between low sociability BTBR T+ tf/J juvenile mice reared with high sociability C57BL/6J juvenile mice B.A. Babineau*, M. Yang, J.N. Crawley, <i>National Institute of Mental Health, USA</i>
[P016]	Neocortical excitation/inhibition balance in information processing and social dysfunction O. Yizhar ^{1,2} , L. Fenno ¹ , T.J. Davidson ¹ , D.J. O'Shea ¹ , V.S. Sohal ^{1,3} , K. Deisseroth ¹ , ¹ <i>Stanford University, USA</i> , ² <i>Weizmann Institute of Science, Israel</i> , ³ <i>University of California, USA</i>
[P017]	Autism severity is associated with child and maternal <i>MAOA</i> genotypes I.L. Cohen ¹ , X. Liu ² , M.E.S. Lewis ³ , A. Chudley ⁴ , C.F. Gibson ² , M. Gonzalez ¹ , ¹ <i>NYS Institute for Basic Research in DD, USA</i> , ² <i>Queens University, Canada</i> , ³ <i>University of British Columbia, Canada</i> , ⁴ <i>University of Manitoba, Canada</i>
[P018]	Molecular mechanism(s) of autism susceptibility candidate 2 (<i>AUTS2</i>) in regulating gene expression as part of a novel polycomb complex Z. Gao*, D. Reinberg, <i>New York University, School of Medicine, USA</i>
[P019]	Oxytocin receptor localization in the BTBR mouse model of autistic-like behavior S.M. O'Neill*, D.T. Stephenson, R.H. Ring, D.G. Smith, S.K. Leonard, <i>Neuroscience Research Unit, Pfizer Global Research & Development, USA</i>
[P020]	Specific inhibitor of p70 Ribosomal S6 Kinase (<i>S6K1</i>), PF-4708671, partially rescues phenotypes caused by <i>PTEN</i> deficiency M. Beyna*, A.W. Probert, E.R. Guilmette, J.E. Finley, M. Bohanon, K. Mou, <i>Neuroscience Research Unit, USA</i>

[P021]	Autism-relevant behavioral phenotypes in Engrailed-2 mutant mice J. Brielmaier ^{*1} , J.L. Silverman ¹ , P.G. Matteson ³ , J.H. Millonig ³ , E.D. Bloom ² , J.N. Crawley ¹ , ¹ National Institute of Mental Health, USA, ² UMDNJ-Robert Wood Johnson Medical School, USA, ³ Center for Advanced Biotechnology & Medicine, USA
[P022]	PI3K/mTOR signaling and protein synthesis as therapeutic target and biomarker in fragile X syndrome C. Gross [*] , M. Nakamoto, X. Yao, K. Ye, S. Warren, G. Bassell, <i>Emory University, USA</i>
[P023]	A novel model of human 15q-duplication syndrome: Neuron-specific impairment of inter-chromosomal pairing and transcription S. Horike ^{*1} , D.H. Yasui ² , W. Powell ² , J.M. LaSalle ² , M.M. Horike ¹ , ¹ Kanazawa University, Japan, ² UC Davis, USA
[P024]	Evaluation of phenotypes relevant to autism and Phelan-McDermid Syndrome in Shank3 mutant mice M. Yang ^{*1} , O. Bozdagi ⁴ , M. Scattoni ² , J. Silverman ¹ , J. Buxbaum ⁴ , J. Crawley ¹ , ¹ National Institute of Mental Health, USA, ² Department of Cell Biology and Neuroscience, Italy, ³ Phillips-University of Marburg, Germany, ⁴ Seaver Autism Center for Research and Treatment, USA
[P025]	mGluR5 blockade reverses autism-relevant phenotypes in the BTBR mouse model of autism J.L. Silverman ^{*1} , M.N. Karras ¹ , S.J.S. Rizzo ² , D.G. Smith ² , R.H. Ring ² , J.N. Crawley ¹ , ¹ National Institute of Mental Health, USA, ² Pfizer, USA
[P026]	Metabolic imbalance associated with DNA hypomethylation and oxidative DNA/protein damage in children with autism J. James [*] , S. Melnyk, G. Fuchs, E. Schulz, M. Lopez, S. Kahler, <i>University of Arkansas for Medical Sciences, USA</i>
[P027]	Pathway analysis of highly recurrent copy number variants in disorders of cognitive development reveals novel functions for implicated genes M.F. Pescosolido ^{1,2} , E.M. Morrow ^{*1,2} , ¹ Brown University, USA, ² Brown University Medical School, USA
[P028]	Abstract spatial reasoning as an autistic strength J.L. Stevenson ^{*1} , M.A. Gernsbacher ² , ¹ Ursinus College, USA, ² University of Wisconsin-Madison, USA
[P029]	Movement variability as an objective classification tool for autism spectrum disorders E.B. Torres ^{*1} , R.W. Isenhour ¹ , D.N. Metaxas ¹ , J.V. Jose ² , ¹ Rutgers University, USA, ² Indiana University, USA
[P030]	Autism-like behaviors in SCN1A mutant mice and their complete rescue by low-dose benzodiazepine treatment S. Han [*] , C. Tai, R.E. Westernbroek, C. Cheah, T. Scheuer, W.A. Catterall, <i>University of Washington, USA</i>
[P031]	Integrated model of mTOR signaling E.A. Trifonova ^{*1} , R. Sharipov ¹ , ¹ Institute of Cytology and Genetics, Siberian Branch of Russian Academy of Sciences, Russia, ² Institute of Systems Biology, Siberian Branch of Russian Academy of Sciences, Russia
[P032]	C-fos-based whole-brain analysis of social behavior-evoked neural activation in mouse models of autism Y. Kim [*] , K.U. Venkataraju, P. Osten, <i>Cold Spring Harbor Lab, USA</i>
[P033]	Increased risk of Autism Spectrum Disorders in boys with XYY J. Ross ^{*1} , D. Roeltgen ¹ , N. Tartaglia ² , F. Hoefl ³ , S. Levy ⁴ , J. Miller ⁴ , ¹ Thomas Jefferson University, USA, ² University of Colorado School of Medicine, USA, ³ Stanford University School of Medicine, USA, ⁴ Children's Hospital of Philadelphia Center for Autism Research, USA
[P034]	Modeling an autism risk factor in mice leads to permanent changes in the immune system E. Hsiao [*] , S. McBride, J. Chow, S. Mazmanian, P. Patterson, <i>California Institute of Technology, USA</i>
[P035]	Translational profiling of serotonergic neurons identifies BRUNOL6 as a candidate gene for autism J.D. Dougherty ^{*1} , L. Sonnenblick ² , G. Coppola ² , A.G. Ercan-Sencicek ⁵ , B.S. Abrahams ³ , D.H. Geschwind ² , ¹ Departments of Genetics and Psychiatry, Washington University School of Medicine, USA, ² UCLA, USA, ³ Albert Einstein, USA, ⁴ Rockefeller University, USA, ⁵ Yale University, USA
[P036]	Maternal inflammation and the fetal basal forebrain L. Pratt ^{*1} , L. Ni ² , G.M. Jonakait ² , ¹ Rutgers University/Newark, USA, ² New Jersey Institute of Technology, USA
[P037]	When seeing does not lead to feeling: Absent neural response to increasing animacy experience in high-functioning autism B. Kuzmanovic ^{1,2} , L. Schilbach ^{3,2} , A. L. Georgescu ² , N. S. Santos ² , N. J. Shah ⁴ , G. Bente ⁷ , G. R. Fink ^{5,6} , K. Vokeley ^{2,5} , ¹ Institute of Neurosciences and Medicine – Ethics in the Neurosciences (INM-8), Research Center Juelich, Germany, ² Department of Psychiatry and Psychotherapy, University Hospital Cologne, Germany, ³ Max-Planck Institute for Neurological Research, Germany, ⁴ Institute of Neurosciences and Medicine – Medical Imaging Physics (INM-4), Research Center Juelich, Germany, ⁵ Institute of Neurosciences and Medicine – Cognitive Neurology (INM-3), Research Center Juelich, Germany, ⁶ Department of Neurology, University Hospital Cologne, Germany, ⁷ Department of Psychology, University of Cologne, Germany
[P038]	Auditory processing, sequence learning and language in autism: A new intervention strategy based on the "auditory scaffolding hypothesis" G.N.L. Smith ^{*1} , C.M. Conway ¹ , M.A. Grempe ² , ¹ Saint Louis University, USA, ² Washington University, USA
[P039]	Building a modular database for autism research C.C. Swanwick [*] , A. Kumar, E.C. Larsen, S.N. Basu, R. Kollu, S.B. Basu, <i>MindSpec, USA</i>
[P040]	Transgenic overexpression of Ube3a, modeling 15q11-13 duplication, produces autism-like behavior and reduced glutamatergic synaptic transmission in mice S.E.P. Smith ^{*1,2} , Y.D. Zhou ^{1,2} , G. Zhang ^{1,2} , Z. Jin ^{1,2} , D.C. Stoppel ^{1,2} , M.P. Anderson ^{1,2} , ¹ Harvard Medical School, USA, ² Beth Israel Deaconess Medical Center, USA
[P041]	Altered targeting of SALM1 in hippocampal neurons: Implications for autism G.K. Seabold ^{*1,2} , P.Y. Wang ¹ , R.S. Petralia ¹ , K. Chang ¹ , A. Zhou ¹ , Y.X. Wang ¹ , ¹ Laboratory of Neurochemistry, USA, ² Laboratory of Kidney and Electrolyte Metabolism, USA

[P042]	Phenotypic correlates of genomic dosage anomalies in 15q11.2 L.J. Starr ^{*1} , G.B. Schaefer ² , J.N. Sanmann ¹ , C.R. Ellis ¹ , D.L. Pickering ¹ , W.G. Sanger ¹ , ¹ University of Nebraska Medical Center and the Munroe-Meyer Institute for Genetics and Rehabilitation, USA, ² University of Arkansas for Medical Sciences and Arkansas Children's Hospital, USA
[P043]	Adapting movement variability in a virtual environment to increase kinaesthetic sensing in ASD R.W. Isehower ^{*1} , D.N. Metaxas ¹ , J.V. José ² , E.B. Torres ¹ , ¹ Rutgers University, USA, ² Indiana University, USA
[P044]	Y chromosomes, ASD, and the brain: Neuroanatomy in XYY syndrome J. Ross ^{*1} , D. Roeltgen ¹ , F. Hoeft ² , S. Lai ¹ , A. Reiss ² , ¹ Thomas Jefferson University, USA, ² Stanford University School of Medicine, USA
[P045]	Class 5 Semaphorins regulate hippocampal circuitry formation and function S.H. Wang ^{*1} , Y. Duan ² , J. Song ¹ , R. Matsuoka ¹ , K. Christian ¹ , ¹ Johns Hopkins University School of Medicine, USA, ² University of Michigan School of Medicine, USA
[P046]	CD38 in an Italian sample of Autism Spectrum Disorder (ASD) G. Zaccarello ^{*1,5} , A. Chillemi ^{1,5} , R. Fusco ^{1,5} , E. Brunetti ¹ , R.P. Ebstein ⁸ , F. Malavasi ^{1,4} , ¹ University of Torino, Italy, ² University of Torino, Italy, ³ University of Torino, Italy, ⁴ University of Torino, Italy, ⁵ University of Torino Medical School, Italy, ⁶ Department of Cellular Biotechnologies and Hematology, Italy, ⁷ Hebrew University Medical School, Jerusalem, Israel, ⁸ University of Singapore, Singapore
[P047]	Increased ENGRAILED2 levels are correlated with autism risk S. Kamdar ¹ , J. Choi ¹ , Y. Lin ² , P.G. Matteson ¹ , L.M. Brzustowicz ⁴ , J.H. Millonig ^{*1,3} , ¹ Center For Advanced Biotechnology and Medicine, USA, ² Cancer Institute of New Jersey, USA, ³ Department of Neuroscience and Cell Biology, UMDNJ-Robert Wood Johnson Medical School, USA, ⁴ Department of Genetics, Rutgers University, USA
[P048]	Discovery of a common X-linked inborn error of carnitine biosynthesis in autistic and control males A.L. Beaudet ^{*1} , P.B.S.C. Soper ¹ , S. Violante ^{2,3} , E.L. Crawford ⁴ , R. Luo ⁵ , B. Sadikovic ¹ , ¹ Baylor College of Medicine and Texas Children's Hospital, USA, ² University of Amsterdam, The Netherlands, ³ Universidade de Lisboa, Portugal, ⁴ Vanderbilt University, USA, ⁵ University of California, USA, ⁶ Yale University School of Medicine, USA, ⁷ University of Illinois at Chicago, USA, ⁸ Baylor College of Medicine, USA
[P049]	Prickle2 null mice display abnormal synaptic morphology and display autistic like behavior L.S. Sowers [*] , L.L. Loo, B.C. Campbell, D.M. Mohapatra, J.W. Wemmie, A.B. Bassuk, ^{University of Iowa, USA}
[P050]	Thorase-GRIP1 interactions and autism M.J. Keuss ^{*1} , T. Wang ² , R.L. Huganir ² , D. Wirtz ¹ , T.M. Dawson ² , V.L. Dawson ² , ¹ Johns Hopkins University, USA, ² Johns Hopkins University School of Medicine, USA
[P051]	Defining the subcellular specificity of fenobam, the metabotropic glutamate receptor, mGluR5, antagonist Y.J. Jong, C. Hogan, V. Kumar, K.L. O'Malley [*] , ^{Washington University School of Medicine, USA}
[P052]	fMRI fingerprint of the BTBR inbred mice C. Risterucci [*] , A. Bruns, M. von Kienlin, E. Borroni, W. Spooren, M. Saxe, ^{F. Hoffmann-La Roche Ltd, Switzerland}
[P053]	Molecular diversity of SHANK3 and Shank3 complete deficiency mice X. Wang [*] , L. Chung, A. Bey, L. Zhu, Y.H. Jiang, ^{Duke University, USA}
[P054]	The adenomatous polyposis coli protein (APC) is required for normal learning, social behavior and synaptic plasticity J. Mohn [*] , C. Palka, S.Y. Lee, F. Guedj, A. Pirone, M. Jacob, ^{Tufts University, USA}
[P055]	IGF-1 reverses LTP deficits in a shank3-deficient mouse O. Bozdagi [*] , T. Sakurai, T. Anderson, S. Patil, D. Papapetrou, X. Wang, ^{Mount Sinai School of Medicine, USA}
[P056]	Absence of Engrailed 2 (En2), the Autism Spectrum Disorder (ASD) associated gene, alters hippocampal neurogenesis and apoptosis M. Genestine ^{*1} , L. Lin ¹ , Y. Yang ¹ , S. Prem ¹ , J.H. Millonig ² , E.D. Bloom ¹ , ¹ Dept of Neuroscience & Cell Biology UMDNJ-RWJMS, USA, ² Center for Advanced Biotechnology and Medicine, USA
[P057]	Activity-dependent regulation of arc and mTOR in a model of the autism spectrum disorder TSC H.S. Bateup ^{*1} , C.L. Denefrio ¹ , C.A. Johnson ¹ , J.L. Saulnier ¹ , B.L. Sabatini ^{1,2} , ¹ HHMI, USA, ² Harvard Medical School, USA
[P058]	Absence of autism associated gene engrailed 2 (En2) produces abnormal forebrain monoamines and structures and depression-like behaviors E.D. Bloom ^{*1,4} , L. Lin ^{1,5} , P.G. Matteson ² , J. Silverman ¹ , J.N. Crawley ³ , J.H. Millonig ^{1,2} , ¹ Neuroscience & Cell Biology, Robert Wood Johnson Medical School, USA, ² Center for Advanced Biotechnology and Medicine, UMDNJ-Robert Wood Johnson Medical School, USA, ³ Laboratory of Behavioral Neuroscience, USA, ⁴ Robert Wood Johnson Medical School, USA, ⁵ Graduate School of Biological Sciences, USA
[P059]	Gabrb3 shRNA transgenic mice exhibit deficits across multiple ASD-related behavioral domains W. Dietz ¹ , K. Masterson ¹ , L.B.K. Herzog ^{*1,2} , ¹ Children's Memorial Research Center Program in Human Molecular Genetics Northwestern University Feinberg School of Medicine, USA, ² Department of Psychiatry and Behavioral Sciences, Northwestern University Feinberg School of Medicine, USA
[P060]	Naturalistic afferent activity fails to engage synaptic cortactin-related signaling in a mouse model of fragile X syndrome R.R. Seese ^{*1} , A.H. Babayan ¹ , J.C. Lauterborn ¹ , A.M. Katz ¹ , G. Lynch ^{1,2} , C.M. Gall ^{1,3} , ¹ Anatomy & Neurobiology, USA, ² Psychiatry & Human Behavior, USA, ³ Neurobiology & Behavior, USA
[P061]	Timothy syndrome mutation recapitulates autistic triad traits in Mice P.L. Bader ^{*1} , M. Faizi ² , L.H. Kim ¹ , S.F. Owen ¹ , G.C. Bett ¹ , R.W. Tsien ¹ , ¹ Stanford University School of Medicine, USA, ² Stanford University School of Medicine, USA, ³ University at Buffalo, USA

[P062]	Implication of the β1-adrenergic receptor in social recognition L. Coutellier*, N.L. Saw, C. Tun, M. Shamloo, <i>Stanford University, USA</i>
[P063]	Identification of potentially etiologic copy number variations in adults with intellectual disability and autistic spectrum disorders using array comparative genomic hybridization A. Vahabzadeh*, C. Lese Martin ² , D.M.D. Luca ² , J. Cubells ^{1,2} , ¹ Emory University Department of Psychiatry and Behavioral Sciences, USA, ² Emory University Department of Human Genetics, USA
[P064]	Functional evaluation of autism-related mutations in SLC9A9/NHE9 K. Kondapalli*, A. Hack ¹ , M. Schushan ² , N.B. Tal ² , A.Q. Hinojosa ¹ , R. Rao ¹ , ¹ The Johns Hopkins University School of Medicine, USA, ² Tel-Aviv University, Israel
[P065]	Riluzole for drug-refractory irritability in autism L.K. Wink, B.A. Adler, M.C. Early, K.A. Stigler, C.J. McDougale, C.A. Erickson*, <i>Indiana University School of Medicine, USA</i>
[P066]	Dendritic filopodia and excitatory synapses are stabilized during development by seizure-related gene 6 (Sez-6) J.M. Gunnensen*, N.L. Carroddus ¹ , J.M. Barwood ² , J.M. Mateos ³ , P. Sonderegger ³ , M.J. Kennedy ⁴ , ¹ The University of Melbourne, Australia, ² Florey Neuroscience Institutes, Australia, ³ The University of Zürich, Switzerland, ⁴ University of Colorado Denver, USA, ⁵ Pfizer, USA
[P067]	Autism from Psymtology's viewpoint (Inorganic viruses theory) M.A. Taheri, <i>Association of Faradarmani & Psymtology, Iran</i>
[P068]	Genotype phenotype interactions of epilepsy in children and adolescents with autism spectrum disorders M. Byrd, J. Paolicchi, G. Barnes*, <i>Vanderbilt University, USA</i>
[P069]	Opposite dysregulation of synaptic protein synthesis and plasticity in fragile X syndrome and tuberous sclerosis complex E.K. Osterweil*, B.D. Auerbach, M.F. Bear, <i>Picower Institute, USA</i>
[P070]	Evaluation of Pax6 mutant rat as a model for autism N. Osumi, <i>Tohoku University School of Medicine, Japan</i>
[P071]	Acetaminophen metabolites modulate central serotonin transmission and social behavior through cannabinoid receptors G.G. Gould*, J.G. Hensler, A. Giuffrida, A. Seillier, T.T. Gu, S.T. Schultz, <i>The University of Texas Health Science Center at San Antonio, USA</i>
[P072]	Regulation of serotonin neurotransmission in mouse behavioral models of social interaction impairment G.G. Gould*, R.E. Horton, J.G. Hensler, M.A. Javors, W. Koek, L.C. Daws, <i>University of Texas Health Science Center at San Antonio, USA</i>
[P073]	The relationship of epileptiform discharges to behaviour and cognition in a putative mouse model of autism and epilepsy M. Byrd, P. Winzenburger, G. Barnes*, <i>Vanderbilt University, USA</i>
[P074]	Method for automatic social behavioral phenotyping of cohort mouse colonies A. Weissbrod ¹ , L. Hertzberg ² , A. Yitzhaky ² , E. Domany ² , T. Kimchi*, ¹ Department of Neurobiology, Weizmann Institute of Science, Israel, ² Department of Physics of Complex Systems, Weizmann Institute of science, Israel
[P075]	Correlation between early clamping of the umbilical cord and the raise in autism prevalence F. Strata*, I. Stoianov ² , V. Vincenti ³ , ¹ Department of Neuroscience, Section of Physiology, University of Parma, Italy, ² Department of General Psychology, University of Padova, Italy, ³ Department of Otolaryngology, Head and Neck Surgery, University of Parma, Italy
[P076]	Chemical genetic identification of NDR1/2 kinase substrates AAK1 and Rabin8 uncovers their roles in controlling dendrite arborization and synapse maturation S.K. Ultanir*, N.T. Hertz, G. Li, K.M. Shokat, L.Y. Jan, Y.N. Jan, <i>UCSF, USA</i>
[P077]	Haploinsufficiency of Gtf2i, a gene deleted in Williams-Buren Syndrome, leads to increases in social interactions T. Sakurai*, ^{1,2} N.P. Dorr ¹ , N. Takahashi ¹ , L.A. McInnes ¹ , G.A. Elder ¹ , J.D. Buxbaum ¹ , ¹ Mount Sinai School of Medicine, USA, ² Kyoto University Graduate School of Medicine, Japan
[P078]	Identification of Tbx1, a 22q11.2 gene, as a risk factor for autism spectrum disorder in a mouse model T. Hiramoto ¹ , G. Suzuki ¹ , Y. Satoh ² , R. Kucherlapati ³ , Y. Watanabe ² , N. Hiroi*, ¹ Albert Einstein College of Medicine, USA, ² National Defense Medical College, Japan, ³ Brigham and Women's Hospital, USA
[P079]	The pathogenesis of autism spectrum disorder: Fetal brain exposure to maternal antibody L. Brimberg*, P.K. Gregersen, B. Diamond, <i>The Feinstein Institute for Medical Research, USA</i>
[P080]	Transgenic expression of mammalian neuroligin rescues the phenotypes of C. elegans neuroligin-deficient (nlg-1) mutants J.B. Rand*, ^{1,2} J.W. Hunter ^{1,2} , G.P. Mullen ¹ , E.A. Mathews ¹ , J.M. Heatherly ^{1,2} , ¹ Oklahoma Medical Research Foundation, USA, ² University of Oklahoma Health Science Center, USA
[P081]	Mammalian species that forage solitarily constitute an animal model for autism J.E. Reser, <i>University of Southern California, USA</i>
[P082]	Identification of an astrocyte-derived factor that promotes the formation of excitatory synapses containing GluA1 AMPA glutamate receptors N.J. Allen*, M.L. Howe, L.C. Foo, C. Chakraborty, B.A. Barres, <i>Stanford University, USA</i>

[P083]	New therapeutic agents to attenuate memory deficits in <i>fmr1</i> hemizygous mice C.A. Pavón ^{1,7} , J.R.B. Acosta ^{2,7} , L. Davidovic ^{3,7} , A.B. Garcia ⁴ , R. de la Torre ^{1,7} , M. Musilli ^{5,7} , O. Stork ^{2,7} , M. Dierssen ^{1,7} , ¹ Institute Center for Genomic Regulation, and IMIM (Hospital del Mar Research Institute), Spain, ² Institute of Biology, Otto von Guericke University Magdeburg, Germany, ³ IMPC-CNRS, France, ⁴ Department of Neuropharmacology, Spain, ⁵ Instituto Superiore de Sanita, Italy, ⁶ Erasmus University, The Netherlands, ⁷ The E-RARE network CURE-FXS, Spain
[P084]	An oxytocin receptor gene polymorphism found in autistic patients impairs receptor internalization and signal transduction W.J. Ma*, M. Hashii, H. Higashida, S. Yokoyama, Department of Biophysical Genetics, Kanazawa University Graduate School of Medicine, Japan
[P085]	Global and regional multimodal neuroimaging markers of the neurobiology of autism: Development and cognition K.M. Hasan, I.S. Walimuni, R.E. Frye*, University of Texas Health Science Center at Houston, United States Minor Outlying Islands
[P086]	Novel test for evaluating rigidity and compulsive behaviour: Implications for a mouse model of autism G. Karvat*, T. Kimchi, Weizmann Institute of Science, Israel
[P087]	CNV and homozygosity mapping in families with single or multiple autistic children indicate epistatic interactions among multiple genes M. Poot*, E. van Daalen ² , ¹ Department of Medical Genetics, The Netherlands, ² Department of Child and Adolescent Psychiatry, The Netherlands
[P088]	MeCP2 is critical within the striatum for normal locomotion, motor skill learning and striatal gene expression S.H. Su*, F.C. Kao ² , W.T. Kao ¹ , W.L. Liao ^{1,3} , ¹ Institute of Neuroscience, National Cheng-Chi University, Taiwan, ² Department of Psychology, National Cheng-Chi University, Taiwan, ³ Research Center for Mind, Brain and Learning, National Cheng-Chi University, Taiwan
[P089]	GSK3 signaling plays pleiotropic roles in regulation of neural development E.M. Hur, S. Jilafu, Y.T. Kim, F.Q. Zhou*, The Johns Hopkins University, USA
[P090]	GABAergic deficits induced by a loss-of-function mutation of neuroligin-2 identified from schizophrenia patients C. Sun ¹ , M.C. Cheng ² , R. Qin ¹ , C.H. Chen ³ , G. Chen* ¹ , ¹ University Park, USA, ² Department of Psychiatry, Taiwan, ³ Division of Mental Health and Addiction Medicine, Taiwan
[P091]	Control of excitatory CNS synaptogenesis by astrocyte-secreted proteins hevin and SPARC H. Kucukdereli ¹ , N.J. Allen ² , E.H. Sage ³ , B.A. Barres ² , C. Eroglu* ¹ , ¹ Duke University Medical Center, USA, ² Stanford University Medical Center, USA, ³ Benaroya Institute at Virginia Mason, USA
[P092]	Deficits in tonic inhibition in the pathology of autism spectrum disorders A.M. Abramian*, R.M. Hines, R. Revilla-Sanchez, S.J. Moss, Tufts University, USA
[P093]	Autistic-like behavior and cerebellar dysfunction in Purkinje cell <i>Tsc1</i> mutants P. Tsai* ¹ , C. Hull ² , J. Crawley ³ , W. Regehr ² , M. Sahin ¹ , ¹ Children's Hospital Boston, USA, ² Harvard Medical School, USA, ³ National Institute of Mental Health, USA
[P094]	Behavioral disorders in children with Specific Language Impairment (SLI) V. Maggio ¹ , N. Grañana ¹ , A. Richaudeau ¹ , S. Torres ¹ , A. Giannotti ¹ , A. Suburo* ² , ¹ Universidad Austral, Hospital Universitario, Argentina, ² Universidad Austral, Facultad de Ciencias Biomédicas, Argentina
[P095]	Genomic landscape of families with autism spectrum disorders S. Wadhawan* ¹ , X. Ji ¹ , K.J. Won ¹ , C.F. Lin ² , L.S. Wang ² , M. Bucan ^{1,2} , ¹ Dept. of Genetics, University of Pennsylvania, USA, ² Penn Center for Bioinformatics, University of Pennsylvania, USA
[P096]	Cumulative mutation load at PDZ4-6 of glutamate receptor interacting protein 2 in autism T. Niranjan ¹ , A. Adamczyk ¹ , R. Hugarir ² , T. Wang* ¹ , ¹ Institute of Genetic Medicine and Department of Pediatrics, The Johns Hopkins University, USA, ² Department of Neuroscience, Johns Hopkins University, USA
[P097]	Mice lacking glutamate receptor interacting proteins show an increase in sociability and social interaction R. Rose ¹ , R. Mejias ¹ , A. Adamczyk ¹ , R. Hugarir ² , T. Wang* ¹ , ¹ Institute of Genetic Medicine and Department of Pediatrics, The Johns Hopkins University, USA, ² Department of Neuroscience, USA
[P098]	Different correlation between structural brain connectivity strength and neuropsychological measures in high functioning autism H. Li ¹ , Z. Xue ¹ , T.M. Ellmore ² , B. Malmberg ² , R.E. Frye* ² , S.T. Wong ¹ , ¹ The Methodist Hospital Research Institute, USA, ² University of Texas Health Science Center, USA
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[P103]	<p>A mouse model for the human chromosome 16p11.2 copy number variation T. Portmann^{*1,2}, R. Mao^{1,2}, P. Bader^{3,4}, G. Panagiotakos^{1,2}, M. Shamloo^{4,5}, R. Dolmetsch^{1,2}, ¹<i>Department of Neurobiology, Stanford University, USA</i>, ²<i>School of Medicine, Stanford University, USA</i>, ³<i>Department of Molecular and Cellular Physiology, Stanford University, USA</i>, ⁴<i>Behavioral and Functional Neuroscience Laboratory, Stanford University, USA</i>, ⁵<i>Institute for Neuro-Innovation and Translational Neurosciences, Stanford University, USA</i></p>
[P104]	<p>Ciliary symptoms in autism, and autism in ciliopathies H.Y. Kroes*, B. Van der Zwaag, M. Poot, E.H. Brilstra, N.V. Knoers, <i>Department of Biomedical Genetics, University Medical Center Utrecht, The Netherlands</i></p>
[P105]	<p>Aggregating autism genomics data for secondary analysis and the reporting of results D. Hall^{*1}, S. Novikova¹, M. McAuliffe^{1,2}, G. Farber¹, ¹<i>National Institute of Mental Health, USA</i>, ²<i>NIH Center for Information Technology, USA</i></p>
[P106]	<p>IL1RAPL1 associated with mental retardation and autism organizes synapse formation by Trans-Synaptic interaction with PTPδ M. Mishina*, T. Yoshida, M. Yasumura, T. Uemura, S.J. Lee, <i>The University of Tokyo, Japan</i></p>
[P107]	<p>A learning-style theory for understanding autistic behaviors N. Qian*, R.M. Lipkin, <i>Columbia University, USA</i></p>
[P108]	<p>Learning and memory study of autism-related genes in drosophila S.Q. Wang^{*1}, L.Z. Wang¹, Y. Zhong^{1,2}, ¹<i>Tsinghua University, China</i>, ²<i>Cold Spring Harbor Lab, USA</i></p>
[P109]	<p>AutismKB: An evidence-based knowledgebase of autism genetics L.M. Xu*, J.R. Li, Y. Huang, M. Zhao, L. Wei, <i>Center for Bioinformatics, Peking University, China</i></p>
[P110]	<p>New interactome uncovers functional links between autism candidate genes X. Yang¹, R. Corominas², G.N. Lin², S. Kang², T. hao¹, L.M. Iakoucheva^{*2}, ¹<i>Dana-Faber Cancer Institute, USA</i>, ²<i>University of California San Diego, USA</i></p>
[P111]	<p>Fragile X mental retardation protein is dysregulated in tuberous sclerosis complex C.M. Bartley^{*1}, R.A. O'Keefe², A. Bordey¹, ¹<i>Yale School of Medicine, USA</i>, ²<i>Yale College, USA</i></p>
[P112]	<p>Behavioral effects of the loss of FMR1 and NLGN3 in two transgenic rat models for autism spectrum disorder S.M. Hamilton*, R. Paylor, <i>Baylor College of Medicine, USA</i></p>
[P113]	<p>The chromatin remodeler Snf2l regulates FoxG1-dependent progenitor cell expansion in the developing neocortex. M. Alvarez-Saavedra^{*1,2}, D.J. Yip^{1,2}, C.P. Corcoran^{1,2}, D.J. Picketts^{1,2}, ¹<i>University of Ottawa, Department of Cellular & Molecular Medicine, Faculty of Medicine, Canada</i>, ²<i>Ottawa Hospital Research Institute, Regenerative Medicine Program, Canada</i></p>
[P114]	<p>Bidirectional Regulation of Dendritic Voltage-gated Potassium Channels by the Fragile X Mental Retardation Protein H.Y. Lee*, W.P. Ge, W. Huang, Y. He, Y.N. Jan, L. Jan, <i>UCSF, USA</i></p>