Poster Programme

Poster Session 1
Tuesday, 22nd May 2018 – 16:45-18:15
Room – Reception Hall 1 and Gallery

[P1.001] **Ghrelin promotes the phosphorylation of the GluN1 and GluN2B subunits of the N-methyl-D-aspartate receptor in the immature hippocampus**
B. Muniz, J. Cuellar, L. Berrout, M. Isokawa,* University of Texas Rio grande Valley, USA

[P1.002] **Role of Cx35 containing gap junctions in recruiting chemical synapses**
S. Jabeen*[1,2], G. Yadav[2], V. Thirumalai[2],[1]*Manipal Academy of Higher Education, India,* [2]*National Centre for Biological Sciences, India*

[P1.003] **Kit ligand-cKit signaling negatively regulates activity-dependent thalamocortical axon branching**
Y. Hayano[1], T. Araki[1], K. Sasaki[1], Y. Miyasaka[1], T. Nakasone[2], Y. Hata[2], N. Yamamoto*[1], [1]*Osaka University, Japan,* [2]*Tottori University, Japan*

[P1.004] **A translational repression complex in developing mammalian neural stem cells that regulates neuronal specification**
S. Zahr*[1,5], G. Yang[2], H. Kazan[3], M. Borrett[1,5], S. Yuzwa[1], A. Voronova[4], D. Kaplan[1,5], F. Miller[1,5], [1]*Hospital for Sick Children, Canada,* [2]*University of Calgary, Canada,* [3]*Antalya Bilim University, Turkey,* [4]*University of Alberta, Canada,* [5]*University of Toronto, Canada*

[P1.006] **Role of T-type calcium channels in axonal arborization of cortical chandelier cells**
A. Steinecke, H. Taniguchi*, *Max Planck Florida Institute for Neuroscience, USA*

[P1.007] **Gene regulatory networks underlying cell fate specification of a *C. elegans* sensory/inter/motor neuron-type**
W. Heo*, H. Hwang, K. Kim, *DGIST, Republic of Korea*

[P1.008] **Embryonic development of the murine cerebello-thalamic tract**
D.B. Dumas*[1], S.V. Gornati[1], Y. Adolfs[2], R.J. Pasterkamp[2], F.E. Hoebeek[1,2], [1]*Erasmus MC Rotterdam, The Netherlands,* [2]*UMC Utrecht, The Netherlands*

[P1.009] **Maternal obesity during pregnancy increases the population of orexigenic neurons in the lateral hypothalamic area**
H.R. Twigg*, C.L. Jasoni, *University of Otago, New Zealand*

[P1.010] **Regulation of apical dendritic patterning of neocortical pyramidal neurons**
Y. Gonda*[1,2], T. Seki[1], C. Hanashima[2,3], [1]*Tokyo Medical University, Japan,* [2]*RIKEN CDB, Japan,* [3]*Waseda University, Japan*

[P1.011] **Olfactory sensory neurons regulate maturation of olfactory bulb neurons independently of neuronal activity**
S. Aihara*, T. Imai, *Kyushu University, Japan*

[P1.012] **Effect of long-term transcutaneous electrical stimulation of spinal cord on postural stability of young individuals**
E. Mukhametova*, A. Militscova, T. Baltina, *Kazan Federal University, Russia*

[P1.013] **Assessment of functional rescue of MeCP2 dysfunction-induced defects by MEA**
D-L. Ma*[1], E. Chin[1], X-Y. Zhang[1], J. Cook[2], A. Van Dongen[1], E. Goh[1,3], [1]*Duke-NUS Medical School, Singapore,* [2]*University of Wisconsin-Milwaukee, USA,* [3]*National Neuroscience Institute, Singapore*

[P1.014] **Activity of Cajal-Retzius cells regulates their distribution and survival: impact on cortical wiring**
I. Genescu*[1], M. Keita[1], F. Rijli[2], G. Lopez-Bendito[3], A. Pierani[4], S. Garel[1], [1]*PSL Research University, France,* [2]*Friedrich Miescher Institute for Biomedical Research, Switzerland,* [3]*Universidad Miguel Hernández-Consejo Superior de Investigaciones Científicas (UMH-CSIC), Spain,* [4]*Université Paris Diderot, Sorbonne Paris Cité, France*

[P1.015] **The different pattern of mtDNA copy number change by brain region at the trimethyltin treatment in the primary mouse neuron**
S. Kim*, E-H. Jang, *Eulji University, Republic of Korea*

[P1.016] **Long associational projections of *Plxnd1*-expressing cortical neurons are formed by interstitial collaterals from the callosally-projecting primary axonal shaft**
Y. Oka*, Y. Lin, S.Y.X. Tiong, T. Sasaki, M. Doi, T. Iguchi, M. Sato, *Osaka University, Japan*

[P1.018] **Single-cell molecular connectomics of somatosensory cortex circuit assembly**
E.K. Klingler*[1], J.P. Prados[1], J.K. Kebschull[2], A.Z. Zador[2], A.D. Dayer[1], D.J. Jabaudon[1,3], *[1]Geneva University, Switzerland, [2]Cold Spring Harbor Laboratory, USA, [3]Geneva University Hospital, Switzerland*

[P1.019] **Hyaluronate-binding proteins in the rat brain during development and under immobilization stress**
Y.V. Babets*, O.O. Dovban, G.O. Ushakova, *Oles Honchar Dnipro National University, Ukraine*

[P1.020] **Blockage of transient receptor potential channels, in particular TRPC3 and V3, has proven to have an effect on neural plasticity in the passive avoidance task learning model in 1 day old chicks**
A. Krolik*, A. Ziembowicz, J. Lenart, E. Salinska, *Polish Academy of Sciences, Poland*

[P1.021] **Thalamic contributions to the developmental acquisition of state-dependent cortical activity**
Y. Murata*, M.T. Colonnese, *George Washington University, USA*

[P1.022] **An in vitro assay to study the interactions between thalamocortical axons and the neocortex**
M. Bose*, S. Pal, S. Tole, *Tata Institute of Fundamental Research, India*

[P1.023] **Thalamocortical-dependent cortical neuron identity in mouse barrel cortex**
T.R. Young*, A. Matsui, S.S. Kikuchi, M. Ogawa, T. Shimogori, *RIKEN Center for Brain Science, Japan*

[P1.024] **Onecut transcription factors control the development of sensory neurons in the dorsal root ganglia**
G. Masgutova*, A. Harris, F. Clotman, *Université Catholique de Louvain, Belgium*

[P1.025] **Neuromodulator induced bidirectional changes in ocular dominance in the mouse primary visual cortex**
S.Z. Hong*[1], S. Huang[2], A. Kirkwood[1], *[1]Johns Hopkins University, USA, [2]Hussman Institute for Autism, USA*

[P1.026] **Behavioral assessment of USH2A KO mice**
P.A. Perrino*[1], A.R. Rendall[1], D.F. Newbury[2], J.J. LoTurco[1], A.N. Buscarello[1], R.H. Fitch[1], *[1]University of Connecticut, USA, [2]University of Oxford, UK*

[P1.027] **Arousal-dependent tuning in Rett syndrome**
P. Artoni*[1], A. Piffer[1], G. Ewall[2], T.K. Hensch[1,2], M. Fagiolini[1], *[1]Harvard Medical School, USA, [2]Harvard University, USA*

[P1.028] **Nogo-B is the major form of Nogo at the midline and likely mediates crossing of commissural axons via NgR upregulation in the mouse spinal cord**
L. Wang*[1], C. Yu[1], S.O. Chan[2], *[1]Sun Yat-sen University, China, [2]The Chinese University of Hong Kong, China*

[P1.029] **Ontogeny and connectivity of thalamic inhibitory interneurons**
P. Jager*[1], O. Brock[1], G. Moore[2], J. Partanen[3], S. Brickley[2], A. Delogu[1], *[1]King's College London, UK, [2]Imperial College London, UK, [3]University of Helsinki, Finland*

[P1.030] **Exposure to a maternal n-3 fatty acid-deficient diet during brain development decreases the gene expression of enzymes involved in DHA incorporation into neuronal phospholipids in rat offspring**
G.J. Chen*, S.C. Cheng, H.M. Su, *National Taiwan University, Taiwan*

[P1.031] **Exposure to a maternal n-3 fatty acid-deficient diet during development decreases the DHA levels and neuronal plasticity related gene expression in rat offspring brain**
H.R. Cai*, H.M. Su, *National Taiwan University, Taiwan*

[P1.032] **Changes in laterality of spinofugal projections caused by spinal cord deletion of DCC during development**
F.B.B. Bourojeni*[1,2], R.V.S. da Silva[1,2], I.A.O. Orfi[1], H.U.Z. Zeilhofer[3], A.K. Kania[1,2], *[1]Institut de Recherches Cliniques de Montréal (IRCM), Canada, [2]McGill University, Canada, [3]Swiss Federal Institute of Technology (ETH), Switzerland*

[P1.033] **The effect of omega-3 fatty acids on visual function and plasticity in mice**
E. Centofante*[1], L. Anez-Bustillos[1], N. Hodgson[1,2], T.K. Hensch[1,2], M. Puder[1], M. Fagiolini[1], [1]*Boston Children's Hospital, USA,* [2]*Harvard University, USA*

[P1.034] **Left-lateralized brain activity is necessary for vocal learning in zebra finches**
A.H. Pagliaro*, H.C. Piristine, J.S. Lord, S.M.H. Gobes, *Wellesley College, USA*

[P1.035] **Development of rat ultrasonic vocalizations: from infancy to adulthood**
R.A. Stark*, M.J. Lelekach, S.M. Pellis, R.L. Gibb, *University of Lethbridge, Canada*

[P1.036] **Clinical aspects of children with developmental stuttering**
T.H. Eom, *The Catholic University of Korea, Republic of Korea*

[P1.037] **Paternal aging affects developmental patterns of ultrasonic vocalization in C57BL6/J mice**
L. Mai*[1], R. Kimura[1], K. Kanno[2], H. Inada[1], N. Osumi[1], [1]*Tohoku University, Japan,* [2]*Kagoshima University, Japan*

[P1.038] **Brain-on-a-chip: Altered neuronal network development in neural cells derived from patients with autism and intellectual disability**
M. Frega, K. Linda, B. Mossink, T. Klein Gunnewiek, D. Schubert, N. Nadif Kasri*, *Donders Institute for Brain Cognition and Behaviour, The Netherlands*

[P1.039] **Eml1 is involved in primary cilium assembly at early stages of cortical development**
A. Uzquiano*[1,2], D. Romero[1,2], A. Houllier[1,2], F. Dingli[3], G. Arras[3], D. Loew[3], N. Bahi-Buisson[4,5], F. Francis[1,2], [1]*Institut du Fer à Moulin, INSERM UMRS 839, France,* [2]*Sorbonne Universités, Université Pierre et Marie Curie, France,* [3]*PSL Research University, Centre de Recherche, Laboratoire de Spectrométrie de Masse Protéomique, 26 rue d'Ulm, 75248 Cedex 05, Paris, France,* [4]*Paris Descartes—Sorbonne Paris Cité University, France,* [5]*INSERM UMR 1163, Embryology and Genetics of Congenital Malformations, France*

[P1.040] **Perturbed interneuron development in a mouse model of maternal immune activation**
N.A. Vasistha*, M. Pardo-Navarro, J. Gasthaus, D.M. Weijers, K. Khodosevich, *University of Copenhagen, Denmark*

[P1.041] **Paternal aging affects gene expression of offspring's brain possibly via epigenetic mechanism involving a transcriptional repressor REST**
N. Osumi*[1], R. Kimura[1], T. Kikkawa[1], K. Yoshizaki[2], S. Oki[3], K. Mochizuki[1], H. Inada[1], N. Aoki[1], Y. Matsui[1], [1]*Tohoku University, Japan,* [2]*Institute for Developmental Research, Aichi, Japan,* [3]*Kyushu University, Japan*

[P1.042] **Caudalised brain organoids for modelling human brain development and drugs activity**
M. Cherepkova[1], S. Molchanova[1], E. Pörsti[1], S. Abdurakhmanova[1], D. Balboa[1], R. Gainetdinov[2], P. Piepponen[1], T. Taira[1], T. Otonkoski[1], M.M. Bespalov*[1], [1]*University of Helsinki, Finland,* [2]*St. Petersburg State University, Russia*

[P1.043] **Deregulated autophagy leads to changes in synaptic functioning in an iPSC-derived model for Koolen-de Vries syndrome**
K. Linda*, E.I. Lewerissa, A. Verboven, M. Frega, S.H.C. van Gestel, T. KleinGunnewiek, D.A. Koolen, B.B. de Vries, N. Nadif Kasri, *Radboud University Medical Center, The Netherlands*

[P1.044] **Memory impairment in astrocyte-specific *Tsc1* knockout mice was recovered by Rheb inhibition**
T. Shimada*, H. Sugiura, K. Yamagata, *Tokyo Metropolitan Institute of Medical Science, Japan*

[P1.045] **TDP-43 in the pathogenesis of frontotemporal lobar degeneration**
K.J. Tsai, *National Cheng Kung University, Taiwan*

[P1.046] **Neuronal network damage in mouse model of extremely preterm infants with brain injury**
K. Deguchi*[1,3], K. Kubo[3], K. Inoue[2], K. Nakajima[3], [1]*Deguchi Pediatric Clinic, Japan,* [2]*National Institute of Neurology & Psychiatry, Japan,* [3]*Keio University School of Medicine, Japan*

[P1.047] **Hydrogen sulfide prevented the developmental impairments of rats with prenatal hyperhomocysteinemia**
O. Yakovleva, A. Ziganshina, A. Arslanova, N. Khaertdinov, G. Ziyatdinova, G. Sitdikova*, *Kazan Federal University, Russia*

[P1.048] **The conditional ko approach: cre/lox technology in human neurons**
C. Patzke*, T.C. Sudhof, *Stanford, USA*

[P1.049] **KCTD13 promotes neural progenitor proliferation and neurogenesis**
D-L. Ma[1], E.W.M. Chin[1], M.K. Ramlee[1], L-F. Poon[1], S. Li[1], E.L.K. Goh*[1,2], *[1]Duke-NUS Medical School, Singapore, [2]National Neuroscience Institute, Singapore*

[P1.050] **The extracellular matrix protein LGALS3BP regulates basal radial glial cells generation and human cortical development**
C. Kyrousi*[1], A. O'Neill[2], L. Coquand[3], I. Buchsbaum[1], R. Di Giaimo[1], A.D. Baffet[3], S.P. Robertson[4], S. Cappello[1], *[1]Max-Planck Institute of Psychiatry, Germany, [2]Institute of Stem Cell Research, German Research Center for Environmental Health, Helmholtz Center, Germany, [3]Institut Curie, PSL Research University, France, [4]Dunedin School of Medicine, New Zealand*

[P1.051] **A neurophysiologic model of MELAS disease carrying m3243A>G heteroplasmy, using human inducible pluripotent stem cell derived excitatory cortical neurons**
T.M. Klein Gunnewiek*[1,2], D. Cassiman[3], E. Morava[3], N. Nadif Kasri[1,2], L.T. Kozicz[1,2], *[1]Radboud University Medical Centre, The Netherlands, [2]Donders Institute for Brain, Cognition and Behaviour, The Netherlands, [3]University Hospital Leuven, Belgium*

[P1.052] **Investigating cellular dynamics during neurodevelopment using live-imaging**
W-K. Chan*, T. Pratt, D. Price, J. Mason, *University of Edinburgh, UK*

[P1.053] **Electroacupuncture ameliorates PTSD symptoms in rats by enhancing hippocampal neurogenesis via the Nrf2/antioxidant signal pathway**
C-H. Zhou*, S-S. Xue, D. Wu, Z-W. Peng, H-N. Wang, *Xijing Hospital, China*

[P1.054] **Maternal obesity in mouse alters brain epigenetic regulation, amygdalar glutamatergic activity, and anxiety-like behaviour of offspring**
K.A. Glendining*, L.C. Fisher, C.L. Jasoni, *University of Otago, New Zealand*

[P1.055] **LTP maturation after neonatal proinflamatory stress: Intact mechanisms of consolidation**
I.V. Kudryashova*, A.O. Manolova, M.Y. Stepanichev, N.V. Gulyaeva, *Institute of higher nervous activity and neurophysiology RAS, Russia*

[P1.056] **Role of 5-HT on the development of the prefrontal to raphe circuit**
J. Olusakin*[1,2], M. Soiza-Reilly[1,2], P. Gaspar[1,2], *[1]Institut du Fer a Moulin, INSERM-U839, France, [2]UPMC, France, [3]ENP, France*

[P1.057] **Blocking connexin 43 in the infralimbic cortex induces anhedonia and abolishes histaminergic neuron activation during motivated behavior in rats**
M.E. Riveros*, M.A. Retamal, *Universidad del Desarrollo, Chile*

[P1.058] **Schizophrenia risk gene DLG2 contributes to cortical neural development from hESCs**
B. Sanders*, E.J. Shin, *Cardiff University, UK*

[P1.059] **Disturbances of behavior and stress response in male and female rats in a model of perinatal reprogramming induced by neonatal proinflammatory stimulation**
M.Y. Stepanichev*, A.O. Manolova, S.V. Freiman, M.V. Onufriev, N.A. Lazareva, N.V. Gulyaeva, *Russian Academy of Sciences, Russia*

[P1.060] **Dysregulation of brain serotonergic systems in BALB/c mice: relevance for autism and anxiety**
J.M. Payet*[1], E. Burnie[1], N.J. Sathananthan[1], A.M. Russo[1], A.J. Lawther[1], S. Kent[1], C.A. Lowry[2], M.W. Hale[1], *[1]La Trobe University, Australia, [2]University of Colorado Boulder, USA*

[P1.061] **Prenatal cold stress alters morphology of noradrenergic neurons: An immunohistochemical study by using rat model**
K. Ikemoto, *Iwaki Kyoritsu General Hospital, Japan*

[P1.062] **Haploinsufficiency of *dab1* causes upward shift and invasion of superficial-layer neurons into the cortical layer I and splitting of the CA1 pyramidal cell layer**
T. Honda*, K. Nakajima, *Keio University, Japan*

[P1.063] **ApoER2 controls not only neuronal migration but also termination of migration in the developing cerebral cortex**
Y. Hirota*[1], K. Kubo[1], T. Fujino[2], T.T. Yamamoto[3], K. Nakajima[1], *[1]Keio University, Japan, [2]Ehime University, Japan, [3]Tohoku University, Japan*

[P1.064] **From inside-out to outside-in: new insights into the cortical lamination development of reelin-deficient mice**

N. Mingo Moreno*[1,2], R.J. Wagener[3], J.F. Staiger[1,2], [1]*UMG - University Medicine Göttingen, Germany,* [2]*Center Nanoscale Microscopy and Molecular Physiology of the Brain, Germany,* [3]*University of Geneva, Switzerland*

[P1.065] **The role of the left intraparietal sulcus (IPS) in tactile enumeration - Behavioral and neuroanatomical findings**
Z.Z. Cohen*[1], I. Arend[1], K. Yuen[2], S. Naparstek[1], Y. Gliksman[1], R. Veksler[1], A. Henik[1], [1]*Ben-Gurion University of the Negev, Israel,* [2]*Johannes Gutenberg University Medical Center, Germany*

[P1.066] **Glutamate, glutamine and GABA levels in the rat hippocampus in two models of autism measured by MRS, NMR and HPLC methods**
D. Diamandakis*, E. Zieminska, W. Hilgier, J. Orzel, B. Toczylowska, J.W. Lazarewicz, *Polish Academy of Sciences, Poland*

[P1.067] **Folding of the cerebral cortex requires Cdk5 in upper-layer neurons in gyrencephalic mammals**
Y. Shinmyo*, Y. Terashita, T.A. Dinh Duong, T. Horiike, M. Kawasumi, K. Hosomichi, A. Tajima, H. Kawasaki, *Kanazawa University, Japan*

[P1.068] **The developmental differences of explicit and implicit motor learning between left and right handedness**
K. Deng*, Y. Deng, J. Chan, J. Yan, *Shenzhen University, China*

[P1.069] **Gyrification of the cerebral cortex requires FGF signaling in the mammalian brain**
N.M. Matsumoto*, Y.S. Shinmyo, Y.I. Ichikawa, H.K. Kawasaki, *Kanazawa University, Japan*

[P1.070] **Sleep problems and family functioning in infants at high-risk for ADHD and their association with attention development**
M. Downes*, J. Keating, J. Bramham, *University College Dublin, Ireland*

[P1.071] **Developmental differences in adaptation to visual perturbation in two-segment movement**
J.M. Wu*, J.S.Y. Chan, J.H. Yan, *Shenzhen University, China*

[P1.072] **Early developmental long-lasting exposure to methylphenidate: New insights into attention-deficit/hyperactivity disorder**
V. Coelho-Santos*, F. Cardoso, R.A. Leitão, C.A. Fontes-Ribeiro, A.P. Silva, *Institute of Pharmacology and Experimental Therapeutics and Institute for Biomedical Imaging and Life Sciences (IBILI), Faculty of Medicine, University of Coimbra, Portugal*

[P1.073] **Transcriptional regulation of Nfix by NFIB drives astrocytic maturation with the developing spinal cord**
E. Matuzelski*[1], J. Bunt[1], D. Harkins[1], J.W.C. Lim[1], R.M. Gronostajski[2], L.J. Richards[1], L. Harris[1], M. Piper[1], [1]*University of Queensland, Australia,* [2]*State University of New York at Buffalo, USA*

[P1.075] **Proneural genes *Ascl1* and *Neurog2* are required for differentiation of ventromedial hypothalamic neurons during embryonic development**
S. Aslanpour K*[1,2], C. Schuurmans[3], D.M. Kurrasch[1,2], [1]*University of Calgary, Canada,* [2]*Alberta Children Hospital Research Institute, Canada,* [3]*University of Toronto, Canada*

[P1.076] **Hominin-specific NOTCH2 paralogs expand human cortical neurogenesis through regulation of Delta/Notch interactions**
I.K. Suzuki*, D. Gacquer, R. Van Heurck, *University of Brussels (ULB), Belgium*

[P1.077] **Distinct gene expression patterns resulting from prenatal pesticide exposure in autism spectrum disorder**
J.J. DeWitt*[1], P.M. Hecht[2], R.J. Schmidt[3], L. Delwiche[3], S. Letovsky[4,5], B. Durbin-Johnson[6], D.B. Campbell[3], I. Hertz-Picciotto[7], [1]*University of Iowa Carver College of Medicine, USA,* [2]*Braeburn Pharmaceuticals, USA,* [3]*UC Davis School of Medicine, USA,* [4]*LabCorp, USA,* [5]*Boston University, USA,* [6]*UC Davis Bioinformatics Core, USA,* [7]*Michigan State University, USA*

[P1.078] **Canonical BMP signaling regulates the timing of neurogenesis and Bergmann glial development in cerebellum**
T.C. Ma*[1], K.I. Vong[1], K.M. Kwan[1,2], [1]*The Chinese University of Hong Kong, Hong Kong,* [2]*Partner State Key Laboratory of Agrobiotechnology (CUHK), Hong Kong*

[P1.079] **Heterozygosity for *nuclear factor one-X* in mice reveals Sotos syndrome 2 characteristics**

S. Oishi*[1], D. Harkins[1], N. Kurniawan[2], M. Kasherman[3], M. Langguth[4], T.J. Burne[4,5], M. Piper[1], [1]*The University of Queensland, Australia,* [2]*The Centre for Advanced Imaging, Australia,* [3]*The Eskitis Institute for Drug Discovery, Australia,* [4]*The Queensland Brain Institute, Australia,* [5]*Queensland Centre for Mental Health Research, Australia*

[P1.080] **Dystrophin short isoform, Dp71, is regulated by phosphorylation and ubiquitin-proteasome system in neuronal cells**
T. Fujimoto*, T. Yaoi, S. Fushiki, K. Itoh, *Kyoto Prefectural University of Medicine, Japan*

[P1.081] **Increased cortical thickness in the right middle occipital gyrus in early high-proficient Cantonese-Mandarin bilinguals**
L. Tu*[1], M. Niu[2], X. Pan[2], B. Jiang[3], R. Huang[2], [1]*Jinan University, China,* [2]*South China Normal University, China,* [3]*Sun Yat Sen University, China*

[P1.082] **Neuronal birthdate tagging: Cre-ER mouse lines for birthtime-dependent classification and manipulation of neuron subsets**
T. Hirata, *National Institute of Genetics, Japan*

[P1.083] **An rRNA methyltransferase: Fibrillarin is essential for brain development**
Q. Wu*, F. Matsuzaki, *RIKEN CDB, Japan*

[P1.084] **Foxg1 overexpression in neocortical pyramids stimulates dendrite elongation via Hes1 and pCreb1 upregulation**
S. Chiola*[1], M.D. Do[2], L. Centrone[1], A. Mallamaci[1], [1]*SISSA, Italy,* [2]*University of Medicine and Pharmacy, Viet Nam*

[P1.085] **Cell cycle and cell fate decision: role of the cdc25b g2/m regulator in mammalian neurogenesis**
M. Roussat*, F. Pituello, S. Bel-Vialar, *Université de Toulouse, France*

[P1.086] **Standard *Cre* lines display spatiotemporally variable recombination with respect to the floxed *Ldb1* allele in the dorsal telencephalon of embryonic mice**
V. Kinare[1], T. Pramanik*[2], S. Tole[2], [1]*Sophia College for Women, India,* [2]*Tata Institute of Fundamental Research, India*

[P1.087] **Longitudinal diffusion tensor imaging revealed nerve fiber alterations in *Aspm* mutated microcephaly model mice**
H. Ogi*[1], N. Nitta[2], S. Tando[1], A. Fujimori[2], I. Aoki[2], S. Fushiki[1], K. Itoh[1], [1]*Kyoto Prefectural University of Medicine, Japan,* [2]*National Institute of Radiological Sciences, National Institutes for Quantum and Radiological Science and Technology, Japan*

[P1.088] **Mechanisms underlying termination of tangential neuronal migration investigated by a RNA-seq based approach**
A. Masuda, H. Nakaoka, A. Toyoda, T. Hirata, Y. Zhu*, *National Institute of Genetics, Japan*

[P1.089] **Vsx1 and Chx10 paralogs sequentially secure V2 interneuron identity during spinal cord development**
S. Debrulle[1], C. Baudouin[1], M. Hidalgo-Figueroa[1], B. Pelosi[1], C. Francius[1], K. Ronellenfitch[2], R.L. Chow[2], F. Tissir[1], S.K. Lee[3], F. Clotman*[1], [1]*Université Catholique de Louvain, Belgium,* [2]*University of Victoria, Canada,* [3]*Oregon Health and Science University, USA*

[P1.090] **Unkempt is a novel downstream regulator of mTOR signaling in mammalian neurogenesis**
E. Vinsland*[1], P. Baskaran[1], A.R. Tee[2], J.M. Bateman[1], [1]*King's College London, UK,* [2]*Cardiff University, UK*

[P1.091] **A critical role for *HnrnpU* during mouse cortical development**
T. Sapir*[1], T. Levy[1], O. Devinsky[2], D.B. Goldstein[3], O. Reiner[1], [1]*The Weizmann Institute of Science, Israel,* [2]*NYU Langone School of Medicine, USA,* [3]*Columbia University, USA*

[P1.092] **Intravenous infusion of mesenchymal stem cells alters metabolites in the brain and ameliorates neonatal stroke in mice**
M. Tsuji*[1], E. Tanaka[1,2], Y. Ogawa[1], T. Mukai[3], T. Shimonaka[2], Y. Sato[4], T. Hamazaki[2], R. Fujii[2], T. Nagamura-Inoue[3], H. Shintaku[2], [1]*National Cerebral and Cardiovascular Center, Japan,* [2]*Osaka City University, Japan,* [3]*The University of Tokyo, Japan,* [4]*Nagoya University Hospital, Japan*

[P1.093] **Single-cell quantitative assessment of mesencephalic dopaminergic populations during early mouse fetal brain development**

W. Luan*[1], L. Hammond[2], S.A. Alexander[3], S. Ali[1], D.W. Eyles[1,3], [1]*University of Queensland, Australia,* [2]*Columbia University, USA,* [3]*Queensland Centre for Mental Health Research, Australia*

[P1.094] **Obesity during pregnancy in the mouse alters the Netrin-1 responsiveness of fetal arcuate nucleus NPY neurons**
C.L. Jasoni*[1], T.R. Sanders[1,2], K.A. Glendining[1], [1]*University of Otago, New Zealand,* [2]*National Institute for Deafness and Other Communication Disorders (NICDC), USA*

[P1.095] **The role of Id genes in mammalian developing cochlea**
S. Sakamoto*, T. Tateya, R. Kgeyama, *Kyoto University, Japan*

[P1.096] **Homogeneous midbrain organoids from human pluripotent stem cells**
T.H. Kwak*, J.H. Kang, S. Hali, C.Y. Shin, D.W. Han, *Konkuk University School of Medicine, Republic of Korea*

[P1.097] **The evolution of early mother-infant interactions in human and non-human primates**
V. Sclafani*[1,2], L. De Pascalis[2,3], L. Bozicevic[2,3], S.J. Suomi[4], P.F. Ferrari[5], L. Murray[2], [1]*University of Reading Malaysia, Malaysia,* [2]*University of Reading, UK,* [3]*University of Liverpool, UK,* [4]*The National Institute of Child Health and Human Development, USA,* [5]*Université Claude Bernard, Lyon, France*

[P1.098] **Neural tube closure responsible membrane channel TRPM7 N- terminal domain interacts with calmodulin**
A. Frtus*, M. Vargova, K. Bousova, J. Teisinger, *Czech Academy of Sciences, Czech Republic*

[P1.099] **Novel calmodulin binding site on N-terminus of TRPM6, a regulator of the neural tube closure**
M. Vargova*, A. Frtus, K. Bousova, J. Teisinger, *Academy of Sciences of the Czech Republic, Czech Republic*

[P1.100] **Methylglyoxal suppresses the translation of *Notch1* mRNA to alter neural precursor cell homeostasis in the developing mouse cortex**
D. Rodrigues[2], F. Ishraque[1], S.L. Erickson[1], H. Liu[1], J.U. Perez[1], J. Ellis[2], D.R. Kaplan[2], G. Yang*[1], [1]*University of Calgary, Canada,* [2]*The Hospital for Sick Children, Canada*

[P1.101] **The mTOR pathway orchestrates the expression of gene regulatory networks during neuronal differentiation**
M. Schüle, T. Butto, S. Dewi, J. Krummeich, D. Strand, S. Strand, S. Schweiger, J. Winter*, *University Medical Center of the Johannes Gutenberg University, Germany*

[P1.102] **Temporal shift of signal dependence for progenitor specification in telencephalon from mouse embryonic stem cells**
M. Nasu*, S. Esumi, N. Tamamaki, *Kumamoto University, Japan*

[P1.103] **Holoprosencephaly in LRP2 deficient C57BL/6N mice is rescued on FVB/N background**
N. Mecklenburg*[1], F. Kreuchwig[1], A. Laier[1], J. Görne[1], W. Chen[2], N. Hübner[1], A. Hammes[1], [1]*Max-Delbrück-Center for Molecular Medicine, Germany,* [2]*Southern University of Science and Technology of China, China*

[P1.104] **Celsr2 regulates neuronal dendritic development and neural function**
B. Chen, X. Li, C. Li, Y. Huang, Y. Qu*, *Jinan University, China*

[P1.105] ***Effect of maternal immune activation with lipopolysaccharide on pre- and early postnatal development of oligodendrocytes, myelin and microglia in the spinal cord***
K.W. McDermott*[1], R.C. Anderson[1], T. Foley[2], J. Radford[2], J. Allardyce[1], S. O'Halloran[1], G.W. O'Keeffe[2], [1]*University of Limerick, Ireland,* [2]*University College Cork, Ireland*

[P1.106] **Live imaging of human basal radial glial cells in fetal brain slices and dissociated in vitro cultures**
L. Coquand*[1], F. Guimiot[2], G.S. Victoria[1], V. Fraisier[1], A. Baffet[1], [1]*PSL research university, France,* [2]*Hôpital universitaire Robert Debré, France*

[P1.107] **Social stress during the neonatal period differentially affects memory processes according to the developmental stage of male rats**
N. Uriarte*, V. Atahaide Garcia, M.J. Zuluaga, V. Cardozo, G. Bedó, D. Agrati, A. Ferreira, *Universidad de la República, Uruguay*

[P1.108] **Retromer complex acts downstream mTOR kinase in dendritic arbor development**

K. Kiselewska[1], M. Blazejczyk[1], M. Bakun[2], M. Dadlez[2], L. Johannes[3], J. Jaworski*[1], [1]*International Institute of Molecular and Cell Biology, Poland,* [2]*Institute of Biochemistry and Biophysics PAS, Poland,* [3]*Institut Curie, France*

[P1.109] **Mitochondrial dynamics in the regulation of cortical neurogenesis**
R. Iwata*, P. Vanderhaeghen, *University of Brussels (ULB), Belgium*

[P1.110] **Prenatal nicotine exposure is associated in young children with abnormal connectivity of resting-state cognitive control networks**
J.C. Ipser*[1], C. Wedderburn[1,4], A. Roos[1], K.L. Narr[1], R.P. Woods[1], S. Joshi[1], H.J. Zar[1], D.J. Stein[1], K.A. Donald[1], [1]*University of Cape Town, South Africa,* [2]*University of California, Los Angeles, USA,* [3]*Stellenbosch University, South Africa,* [4]*London School of Hygiene & Tropical Medicine, UK,* [5]*South African Medical Research Council, South Africa*

[P1.111] ***Gabrb3*** **heterozygosity-associated ASD genetic susceptibility interacts with maternal immune activation in the mouse neocortex**
H.M. Moon*[1], P.A. Carpentier[1], V. Saravanapandian[1], U. Haditsch[1], J. Su[1], M. Chin[1], K. Muench[1], A. Bormann[2], G. Subramayam[3], T.D. Palmer[1], [1]*Stanford University, USA,* [2]*Cal State University, Fullterton, USA,* [3]*San Jose State University, USA*

[P1.112] **Beta III Spectrin is required for the dendrite growth guided by axonal bundles in cerebellar circuits**
K. Fujishima*, M. Yamada, Y. Nishida, J. Kurisu, M. Kengaku, *Kyoto University, Japan*

[P1.113] **Rolipram, a PDE-IV inhibitor protects against experimental Parkinsonism in mice**
N. Kumar*, R.K. Khanna, *Vivekananda Global University, India*

[P2.087] **Testing the Lhx2:Ldb1 interaction in neuron-glia cell fate specification in the embryonic hippocampus**
T. Khan*[1], V. Kinare[2], L. D' Souza[1], G. Godbole[1], H. Padmanabhan[1,3], Z. Khatri[1], U. Maheshwari[1], B. Muralidharan[1], S. Tole[1], [1]*Tata Institute of Fundamental Research, India,* [2]*Sophia College for Women, India,* [3]*Harvard University, USA*

[P2.118] **Modulating cortical asymmetry: the transdiagnostic reduction of depressive and anxiety symptoms utilising a novel therapeutic approach**
R.W. Beck*[1], J. Laugharne[2], W. Woldman[3], R. Laugharne[4], B. McLean[5], M.T. Beck[6], C. Mastropasqua[1], R. Shankar[4], R. Jorge[1], [1]*Institute of Functional Neuroscience, Australia,* [2]*University of Western Australia, Australia,* [3]*University of Exeter, UK,* [4]*University of Exeter Medical School, UK,* [5]*Royal Cornwall Hospital, UK,* [6]*Institute of Functional Neuroscience, Canada*

Poster Session 2
Thursday, 24th May 2018 – 18:00-19:30
Room – Reception Hall 1 and Gallery

[P2.001] **A tunable microtubule targeting system that shapes dendrite arbor topology**
A. Moore*[1], L-F. Yoong[1], H-K. Lim[1], S. Lackner[1], P. Hong[2], [1]*RIKEN BSI, Japan,* [2]*Brandeis University, USA*

[P2.002] **Effect of gap junction blockade in the hippocampus of rats after neonatal anoxia**
S.H. Takada*, N.M.M. Dias, J.M. Ikebara, D.S. Cardoso, T.A.S. Bretherick, P.P. Martins, A.H. Kihara, *Universidade Federal do ABC, Brazil*

[P2.003] **Nck2 in spinal motor axon guidance**
M.Y. Chang[2], T.J. Kao*[1], [1]*Taipei Medical University, Taiwan,* [2]*Min-Sheng General Hospital, Taiwan*

[P2.004] **Lhx1/5 is critical in controlling dendritogenesis and spine morphogenesis of Purkinje cells via regulation of Espin**
N.C. Lui[1], W.Y. Tam[1], J. Huang[3], C.C. Wang[1], L. Jiang[1,2], W.H. Yung[1], K.M. Kwan*[1,2], [1]*The Chinese University of Hong Kong, Hong Kong,* [2]*Partner State Key Laboratory of Agrobiotechnology (CUHK), China,* [3]*University of Hong Kong, Hong Kong*

[P2.005] **Development of left-right asymmetric structure in the *Drosophila* brain**
S. Sakamura*[1], F. Hsu[2], A-S. Chiang[2], K. Matsuno[1], [1]*Osaka University, Japan,* [2]*National Tsing Hua University, Taiwan*

[P2.006] **Roles of N-cadherin in columnar unit organization in the Drosophila brain**

O. Trush*, C. Liu, M. Sato, *Kanazawa University, Japan*

[P2.007] **Genome stability by DNA polymerase β is required for neuronal differentiation in the postnatal cortex**

A. Uyeda[1], K. Onishi[1], T. Hirayama[1,2], T. Yagi[1,2], N. Yamamoto[1], N. Sugo*[1], [1]*Osaka University, Japan,* [2]*Japan Agency for Medical Research and Development (AMED), Japan*

[P2.008] **MIM regulation of actin-nucleating formin DAAM1 determines dendritic protrusion morphology and final dendritic configuration of Purkinje cells**

K.K. Galbraith*[1], H. Mizuno[1], K. Fujishima[1], S.J. Lee[2], T. Uemura[2], K. Sakimura[3], M. Mishina[4], N. Watanabe[1], M. Kengaku[1], [1]*Kyoto University, Japan,* [2]*University of Tokyo, Japan,* [3]*Niigata University, Japan,* [4]*Ritsumeikan University, Japan*

[P2.009] **The analysis of the functional state of spinal circuit during a two month period after spinal cord injury**

D.I. Silantyeva*, E.I. Yamalitdinova, M.E. Baltin, T.V. Baltina, *Kazan Federal University, Russia*

[P2.010] **The influence of electric stimulation of the ulnar nerve on evoked potentials recorded in calf muscles**

A.D. Militskova*, L.M. Bikchentaeva, G.G. Yafarova, I.A. Lavrov, *Kazan Federal University, Russia*

[P2.011] **GSK3B-mediated phosphorylation of MCL1 regulates axonal autophagy to promote Wallerian degeneration**

S. Wakatsuki*, T. Araki, *National Institute of Neuroscience, National Center of Neurology and Psychiatry, Japan*

[P2.012] **Induction of neuronal apoptosis in a Drosophila model of traumatic brain injury**

M.T. Bounajem*[1], B. Frost[1], [1]*Joe R. and Teresa Lozano Long School of Medicine, UT Health San Antonio, USA,* [2]*Barshop Institute for Longevity and Aging Studies, USA*

[P2.013] **Sensory sensitivity and behavior of rats with hyperhomocysteinemia in the model of chronic migraine**

G.F. Burkhanova*, E.V. Gerasimova, G.F. Sitdikova, *Kazan Federal University, Russia*

[P2.014] **The effects of sulfur-containing amino acids on the spontaneous neuronal activity in the hippocampus of neonatal rats**

E. Gataulina, E. Kurmasheva, G. Sitdikova, A. Yakovlev*, *Kazan Federal University, Russia*

[P2.015] **Susceptibility to cortical spreading depression of rats with prenatal hyperhomocysteinemia**

E.V. Gerasimova*, G.F. Burkhanova, K.A. Chernova, A.V. Zakharov, N.N. Khaertdinov, G.F. Sitdikova, *Kazan Federal University, Russia*

[P2.016] **Clustered protocadherins except three PcdhγC isoforms are necessary for generating functional neuronal circuits**

K. Takemoto*, H. Kobayashi, S. Hasegawa, Y. Inoue, T. Hirabayashi, T. Yagi, *Osaka university, Japan*

[P2.017] **Cadherin-13 deficiency increases dorsal raphe 5-HT neuron density and prefrontal cortex innervation in the developing mouse brain**

A. Forero*[1], O. Rivero[1], S. Wäldchen[1], H.P. Ku[1], Y. Gärtner[1], J. Waider[1], R. Blum[1], M. Sauer[1], K.P. Lesch[1,2], [1]*University of Würzburg, Germany,* [2]*Maastricht University, The Netherlands*

[P2.018] **Identifying new genes playing a role in severe heterotopia: the unsuspected role of Dlgap4 in radial glial cells**

D.M. Romero*[1], N. Bahi-Buisson[2], K. Poirier[3], A.G. Le Moing[4], J. Chelly[5], J.F. Deleuze[6], F. Francis[1], [1]*Sorbonne Université, Université Pierre et Marie Curie, France,* [2]*Université Paris Descartes, France,* [3]*INSERM U1016, Université René Descartes, France,* [4]*Service de neurologie pédiatrique, CHU Amiens, France,* [5]*IGBMC-CNRS UMR7104, INSERM U964, France,* [6]*CEA/DSV/Institut de Génomique, Centre National de Genotypage, France*

[P2.019] **Extracellular Pax6 regulates tangential migration of Cajal-Retzius cells**

H. Kaddour*[1,2], E. Coppola[2,3], M. Volovitch[1], A. Di Nardo[1], A. Prochiantz[1], A. Pierani[2,3], [1]*College de France, France,* [2]*Imagine Institute, France,* [3]*Center of Psychiatry and Neuroscience, France*

[P2.020] **Semaphorin 6A-Plexin A2/A4 signaling between neurons and radial glial cells is required for proper positioning of superficial layer neurons in the mouse cerebral cortex**

Y. Hatanaka*[1,5], T. Kawasaki[2], T. Abe[3], G. Shioi[3], T. Kohno[4], M. Hattori[4], A. Sakakibara[5], Y. Kawaguchi[1], T. Hirata[2], [1]*National Institute for Physiological Sciences, Japan*, [2]*National Institute of Genetics, Japan*, [3]*RIKEN Center for Life Science Technologies, Japan*, [4]*Nagoya City University, Japan*, [5]*Chubu University, Japan*

[P2.021] **The kinesin KIF21B modulates neuronal migration in the developing cerebral cortex both in mice and human**
L. Asselin*[1], P. Tilly[1], S. Heide[2], D. Héron[2], C. Depienne[3], B. Yalcin[1], J. Godin[1], [1]*Institut de Génétique et de Biologie Moléculaire et Cellulaire (IGBMC), France*, [2]*Hôpital de la Pitié-Salpêtrière, Paris VI, France*, [3]*University Hospital Essen, Germany*

[P2.022] **Dynamics and function of CXCR4 in formation of the granule cell layer during hippocampal development**
Y. Mimura-Yamamoto[1], H. Shinohara[1], T. Kashiwagi[1], T. Sato[1], S. Shioda[2], T. Seki*[1], [1]*Tokyo Medical University, Japan*, [2]*Hoshi University, Japan*

[P2.023] **Assembly of inhibitory circuitry by *FoxG1*, a gene associated with autism spectrum disorders**
G.M. Miyoshi*[1,2], Y.U. Ueta[1], H.O. Osaki[1], G.F. Fishell[2], M.M. Miyata[1], [1]*Tokyo Women's Medical University, Japan*, [2]*New York University, USA*

[P2.024] **Unified control of neuronal delamination and oRG generation by Lzts1**
A. Kawaguchi, *Nagoya University, Japan*

[P2.025] **Layer and area-specific radial migration modes in the primate are modulated by direction of vesicular traffic**
D. Delaunay*[1], E. Gautier[1], V. Cortay[1], D. Patti[1], N. Doerflinger[1], C. Mayere[1], P. Giroud[1], C. Huissoud[1,2], K. Knoblauch[1], H. Kennedy[1], C. Dehay[1], [1]*Université Claude Bernard Lyon 1, France*, [2]*Hôpital Croix Rousse, Service Obstetrique, France*

[P2.026] **Altered functional organization of cortical circuits in a rat model of subcortical band heterotopia**
J-B. Manent*[1,2], V. Plantier[1,2], F. Watrin[1,2], E. Buhler[1,2], I. Bureau[1,2], A. Represa[1,2], [1]*INSERM, France*, [2]*Aix-Marseille University, France*

[P2.027] **The protein tyrosine phosphatase receptor delta PTPRD regulates neural precursor cell biology during embryonic cortical development**
G.I. Cancino*[1,2], H. Tomita[2], C.L. Woodard[2], C.C. Rioseco[2], B.G. Neel[3], D.R. Kaplan[2], F.D. Miller[2], [1]*Universidad Mayor, Chile*, [2]*The Hospital for Sick Children, Canada*, [3]*New York University Langone Health, USA*

[P2.028] **Molecular basis of nuclear dynamics in migrating neurons of developing brain**
Y. Wu*, H. Umeshima, M. Kengaku, *Kyoto University, Japan*

[P2.029] **Reelin C-terminal region regulates hippocampal layer formation**
K. Ishii*, T. Kohno, M. Hattori, *Nagoya City University, Japan*

[P2.030] **Projection neurons instruct region-specific interneuron distribution during cortical development**
H-W. Hsing*, Z-H. Zhuang, S-J. Chou, *Academia Sinica, Taiwan*

[P2.031] **Correct laminar positioning in the neocortex influences proper dendritic and synaptic development**
F.S. Martineau[1], S. Sahu[1], V. Plantier[1], E. Buhler[1], F. Schaller[1], L. Fournier[1], H. Kawasaki[2], A. Represa[1], F. Watrin*[1], J-B. Manent[1], [1]*Aix-Marseille Université, France*, [2]*Kanazawa University, Japan*

[P2.032] **Influence of mTOR hyperactive mutants on brain development**
B. Tarkowski*, K. Kuchcinska, J. Weslawski, A. Koscielny, J. Jaworski, *International Institute of Molecular and Cell Biology in Warsaw, Poland*

[P2.033] **Oligophrenin1 (OPHN1), a synaptic protein implicated in intellectual disability, regulates neuronal migration in the mouse neocortex**
Y. Saillour*[1,2], C-L. Wang[3], Y-T. Yang[3], N. Gallo[3], L. Bouriette[1,2], A. Christophe[1,2], N. Lebrun[1,2], L. Van Aelst[3], P. Billuart[1,2], [1]*Université Paris Descartes, France*, [2]*INSERM U1016, France*, [3]*Cold Spring Harbor Laboratory, USA*

[P2.034] **Changes in Wnt-dependent neuronal migration patterns contributed to the evolution of mammalian neocortex**

T. Nomura*[1], C. Ohtaka-Maruyama[2], H. Gotoh[1], K. Ono[1], [1]*Kyoto Prefectural University of Medicine, Japan,* [2]*Tokyo Metropolitan Institute of Medical Science, Japan*

[P2.035] **Clathrin-independent endocytosis regulates neuronal maturation and migration**
T. Kawauchi[1,2], [1]*Institute of Biomedical Research and Innovation, Japan,* [2]*Keio University School of Medicine, Japan*

[P2.036] **Area-specific laminar organization is regulated by thalamocortical axons through axon-derived NRN1 and VGF in developing neocortex**
H. Sato*[1], J. Hatakeyama[1], T. Iwasato[2], N. Yamamoto[3], K. Shimamura[1], [1]*Kumamoto Uinversity, Japan,* [2]*National Institute of Genetics, Japan,* [3]*Osaka University, Japan*

[P2.037] **Human forebrain endothelial cells for cell-based therapy of neuropsychiatric disorders**
D. Datta*[1,2], S. Subburaju[1,2], S. Kaye[2], A. Vasudevan[1,2], [1]*Harvard Medical School, USA,* [2]*McLean Hospital, USA*

[P2.038] **Subtype specification of cortical neurons by the extracellular environment**
K. Oishi*, K. Nakajima, *Keio University School of Medicine, Japan*

[P2.039] **Dynamic temporal coupling between progenitor and post-mitotic neuron identity during corticogenesis**
E. Magrinelli[1], C. Glangetas[1], C. Bellone[1], D. Jabaudon*[1,2], [1]*University of Geneva, Switzerland,* [2]*Geneva University Hospital, Switzerland*

[P2.040] **The role of the microRNA-122 in the migration and maturation of superficial cortical neurons**
U. Tomasello*[1], L. De Vevey[1], E. Klingler[1], M. Niquille[1], J. Prados[1], D. Jabaudon[1,2], V. Borrell[3], A. Dayer[1,2], [1]*Geneva University, Switzerland,* [2]*Geneva University Hospital, Switzerland,* [3]*Universidad Miguel Hernandez, Spain*

[P2.041] **A novel genome-integrating vector system for the study of neural development**
T. Kumamoto*, B. Raphaëlle, S. Tozer, F. Maurinot, C. Vaslin, M. Le, S. Nedelec, K. Loulier, J. Livet, *Sorbonne Université, France*

[P2.042] **LIS1 takes the RISC to modulate chromatin dynamics and alternative splicing in priming**
A. Kshirsagar*[1], T. Olender[1], E. Karzbrun[1], T. Levy[1], K. Kaibuchi[2], J. Hanna[1], O. Reiner[1], [1]*Weizmann Institute of Science, Israel,* [2]*Nagoya University Graduate School of Medicine, Japan*

[P2.043] **The expression profile of long non-coding RNA in microglia derived exosomes and relationship to Parkinson's disease**
Y. Liang*, D. Lin, T. Zhou, *The Sun Yat-sen Memorial Hospital of Sun Yat-sen University, China*

[P2.044] **Epigenetic roadmap of central and peripheral neurodegenerationin DNMT1 mutation knock-in mice**
C.J.K. Klein*[1], M.X. Xu[1], X.D. Duan[2], W.W. Wang[2], S.B. Baheti[1], C.S. Sun[1], P.J.D. Dyck[1], Y.W. Wu[1], Z.S. Sun[1], [1]*Mayo CLinic, USA,* [2]*China-Japan Friendship Hospital, China*

[P2.045] **Olive biophenols inhibited cholinesterase and protected oxidative stress induced human neuroblastoma SH-SY5Y cells**
S.H. Omar, *Endeavour College of Natural Health, Australia*

[P2.046] **Oligodendrocyte development in the postembryonic and adult zebrafish CNS**
H-K. Kim*, S. Kim, D-W. Lee, E. Kim, I. Jeong, B. Kim, H-C. Park, *Korea Univ. Ansan Hospital, Republic of Korea*

[P2.047] **mtSOD1-induced myelin degeneration contributes ALS pathogenesis**
S. Kim*, A-Y. Chung, J.E. Na, E. Kim, I. Jeong, H-K. Kim, D-W. Lee, W. Sun, I.J. Rhyu, H-C. Park, *Korea university, Republic of Korea*

[P2.048] **Identification and functional investigation of mammalian piRNA-pathway in adult hippocampal neurogenesis**
C. Gasperini*, M. Pons Espinal, R. Cossu, M. Scarpato, S. Gustincich, D. De Pietri Tonelli, *Istituto Italiano di Tecnologia, Italy*

[P2.049] **Functional integration of *in vivo* induced neurons in the mouse cerebral cortex**
N. Marichal*[1], S. Péron[1], M. Karow[1,2], B. Berninger[1], [1]*Johannes Gutenberg University Mainz, Germany,* [2]*Ludwig Maximilian University Munich, Germany*

[P2.050] **MiR-135a-5p is critical for physical exercise-dependent regulation of proliferation in hippocampal adult neurogenesis**

M. Pons-Espinal[1], C. Gasperini[1], M.J. Marzi[2], T.L. Walker[3,4], K. Fabel[3,4], F. Nicassio[2], G. Kempermann[3,4], D. De Pietri Tonelli*[1], *[1]Istituto Italiano di Tecnologia, Italy, [2]Istituto Italiano di Tecnologia, Center for Genomic Science, Italy, [3]German Center for Neurodegenerative Diseases (DZNE), Germany, [4]Technische Universität Dresden, Germany*

[P2.051] **Effect of Bacopa on hind limb movement post spinal cord injury**
R. Sarda*, R. Sinha, M. Sherpa, A. Gupta, *Sikkim Manipal Institute of Medical Sciences, India*

[P2.052] **Intrinsic and systemic regulation of embryonic and adult neurogenesis**
I. Crespo-Enriquez[1], H. Shimojo[2], I. Imayoshi[2], R. Kageyama[2], F. Guillemot[3], N. Urban*[1], *[1]Institute of Molecular Biotechnology Austria (IMBA), Austria, [2]Kyoto University, Japan, [3]The Francis Crick Institute, UK*

[P2.054] **Enhanced lysosomal degradation in the quiescent state of neural stem cells**
T. Kobayashi*, W. Piao, I. Imayoshi, R. Kageyama, *Kyoto University, Japan*

[P2.055] **Modulation of mitochondrial complex I/III activity underpins lutein enhanced neural differentiation**
K. Xie*, J. Rong, S. Ngo, A. Sheppard, *University of Auckland, New Zealand*

[P2.056] **Functions of the p57 imprinted allele in mouse neocortical development**
Y. Imaizumi*, T. Watanabe, S. Furutachi, D. Kawaguchi, Y. Gotoh, *The University of Tokyo, Japan*

[P2.057] **Roles of lysosomes in embryonic neural stem/progenitor cells**
N. Yuizumi*, Y. Harada, D. Kawaguchi, S. Furutachi, Y. Gotoh, *The University of Tokyo, Japan*

[P2.058] **Role of the cdk inhibitor p57^{kip2} in regulating the fate of embryonic neural progenitor cells**
Y. Harada*, S. Furutachi, D. Kawaguchi, Y. Gotoh, *The University of Tokyo, Japan*

[P2.059] **The functional analysis of *Auts2* in the cerebral corticogenesis**
K. Shimaoka*[1], K. Hori[1], A. Sakamoto[1], M. Abe[2], K. Sakimura[2], M. Hoshino[1], *[1]NIN, NCNP, Japan, [2]Univ. of Niigata, Japan*

[P2.060] **GABA$_A$ receptor activation by maternally-derived taurine underlies the temporal regulation of cellular properties of the neural progenitors in the mouse developing cortex**
S. Tochitani*[1,2], T. Furukawa[3,4], T. Ito[5], Y. Matsushima[6], T. Kojima[7], H. Matsuzaki[2], A. Fukuda[3], *[1]Suzuka University of Medical Science, Japan, [2]University of Fukui, Japan, [3]Hamamatsu University School of Medicine, Japan, [4]Hirosaki University Graduate School of Medicine, Japan, [5]Fukui Prefectural University, Japan, [6]Tokyo University of Agriculture, Japan, [7]Toyohashi University of Technology, Japan*

[P2.061] **Induction of outer radial glia causes severe microcephaly in the *Aspm* mutant mice**
I. Fujita*[1], T. Suetsugu[1], C. Kishida[1], Y. Tsunekawa[1], D. Konno[1], A. Fujimori[2], F. Matsuzaki[1], *[1]CDB, Riken, Japan, [2]NIRS, Japan*

[P2.062] **The role of Auts2 in the morphogenesis of the dentate gyrus**
S. Egusa*[1], K. Hori[1], A. Sakamoto[1], M. Abe[2], K. Sakimura[2], Y. Go[3], M. Hoshino[1], *[1]NCNP, Japan, [2]Univ. of Niigata, Japan, [3]NIPS, Japan*

[P2.063] **Premigratory neurons mechanically limit interkinetic nuclear migration to secure progenitor cells' apical cytogenesis**
T. Kawaue*, Y. Watanabe, T. Miyata, *Nagoya University, Japan*

[P2.064] ***Intersectin 1* is a target of NFIX during granule neuron precursor cell differentiation within the postnatal cerebellum**
J. Fraser[1], A. Essebier[1], A. Brown[2], R. Davila[1], A. Sengar[3], K. Ensbey[4], B. Day[4], M. Boden[1], T.J. Harvey*[1], M. Piper[1], *[1]University of Queensland, Australia, [2]Stanford University, USA, [3]The Hospital for Sick Children, Canada, [4]QIMR Berghofer Medical Research Institute, Australia, [5]University of New York at Buffalo, USA*

[P2.065] **Chromatin regulation of neural stem cell fate during neocortical development**
Y. Kishi*, M. Tsuboi, N. Kuwayama, Y. Hirabayashi, Y. Gotoh, *The University of Tokyo, Japan*

[P2.066] **The role of Betacellulin in embryonic neural stem cells**
S. Yoshimochi*, J. Hatakeyama, H. Takemoto, R. Matsushita, K. Shimamura, *Kumamoto University, Japan*

[P2.067] **Dominant negative regulation of ascl1 protein by id4 maintains adult neural stem cell quiescence**
I. Blomfield*[1], B. Rocamonde[2], E. Huillard[2], F. Guillemot[1], N. Urbán[3], [1]*The Francis Crick Institute, UK,* [2]*ICM - Institut du Cerveau et de la Moelle épinière, France,* [3]*IMBA - Institute of Molecular Biotechnology GmbH, Austria*

[P2.068] **Mib1 prevents Notch cis-inhibition to defer differentiation and preserve neuroepithelial integrity during neural delamination**
C. Baek[1], L. Freem[2], R. Goiame[1], H. Sang[2], X. Morin*[1], S. Tozer[1], [1]*Ecole Normale Supérieure, Inserm, CNRS, France,* [2]*The Roslin Institute and Royal School of Veterinary Studies, UK*

[P2.070] **Glycine regulates the survival and development of neuronal stem cells**
A. Bekri*[1,2], E. Samarut[1], P. Drapeau[1], [1]*Research Center of CHUM, Neurosciences axis, Canada,* [2]*Montreal university, Canada*

[P2.071] **The human specific gene *NOTCH2NL* promotes proliferation of basal progenitors in embryonic mouse neocortex**
A. Pinson*[1], M. Florio[1,2], M. Heide[1], M. Hiller[1,3], W.B. Huttner[1], [1]*Max Planck Institute of Molecular Cell Biology and Genetics, Germany,* [2]*Harvard Medical School, USA,* [3]*Max Planck Institute for the Physics of Complex Systems, Germany*

[P2.072] **Human-specific gene *ARHGAP11B* promotes basal progenitor amplification and induces cortical expansion in transgenic mouse neocortex**
L. Xing*[1], T. Namba[1], A. Pinson[1], M. Florio[1,2], M. Sarov[1], W.B. Huttner[1], [1]*Max Planck Institute of Molecular Cell Biology and Genetics, Germany,* [2]*Harvard Medical School, USA*

[P2.073] **A novel population of Hopx-dependent human-like basal radial glial cells in the developing mouse neocortex**
S. Vaid, J.G. Camp, A-K. Heninger, M. Sarov, B. Treutlein, W.B. Huttner, T. Namba*, *Max Planck Institute, Germany*

[P2.074] **Cell cycle control by Rb during adult neurogenesis: direct implications on progenitor proliferation and neuronal survival inside the adult mammalian brain**
R. Naser[1], R. Vandenbosh[2], S. Omais[1], C. Jaafar[1], A. Clark[2], B.C. Fong[2], D. Hayek[1], A. Saliba[1], R.S. Slack[2], N. Ghanem*[1], [1]*American University of Beirut, Lebanon,* [2]*University of Ottawa, Canada*

[P2.075] **Disruption of Tsukushi function leads to the hydrocephalus by aberrant neurogenesis in the brain**
K. Ohta*, S.A.I. Ahmad, M.B. Anam, N. Ito, *Kumamoto University, Japan*

[P2.076] **Seizure severity-dependent selective vulnerability of the granule cell layer and aberrant neurogenesis in the rat hippocampus**
T. Uemori*, K. Toda, T. Seki, *Tokyo Medical University, Japan*

[P2.077] **Adolescence neurogenesis and schizophrenia: a new therapeutic opportunity?**
A. Iannitelli*[1], A. Quartini[2], F. Pacitti[1], P. Tirassa[3], G. Bersani[2], [1]*University of L'Aquila, Italy,* [2]*Sapienza University of Rome, Italy,* [3]*National Research Council, Italy*

[P2.078] **Interleukin-6 regulates adult neural stem cell numbers during normal and abnormal postnatal development**
M.A. Storer*[1], D. Gallagher[1], M.P. Fatt[1], J.V. Simonetta[1,2], D.R. Kaplan[1,2], F.D. Miller[1,2], [1]*Hospital for Sick Children, Canada,* [2]*University of Toronto, Canada*

[P2.079] **The importance of suppressing canonical wnt signaling within the developing telencephalic midline**
M. Chatterjee*[1], S. Pal[1], M.M. Taketo[2], S. Tole[1], [1]*Tata Institute of Fundamental Research, India,* [2]*Kyoto University, Japan*

[P2.080] **Analyses of *Cyclin D2* mRNA transportation mechanism in radial glial cells during corticogenesis**
T. Kikkawa*[1], Y. U Inoue[2], T. Inoue[2], N. Osumi[1], [1]*Tohoku University Graduate School of Medicine, Japan,* [2]*National Center of Neurology and Psychiatry, Japan*

[P2.081] **Transcriptomics and behavioral analysis of a transgenic mouse in which the choroid plexus has been transformed into neuronal tissue by constitutive activation of canonical wnt signaling**
V. Suresh*[1], M. Chatterjee[1], M.M. Taketo[2], S. Tole[1], [1]*Tata Institute for Fundamental Research, India,* [2]*Kyoto University, Japan*

[P2.082] **Characterization of a discrete olig2-expressing astrocyte sub-type in the developing spinal cord**
D. Ohayon*, N. Esacalas, P. Cochard, B. Glise, C. Danesin, C. Soula, *Centre de Biologie du Développement, UMR5547 CNRS/UPS, France*

[P2.083] **Developmental emergence of adult neural stem cells as revealed by single-cell transcriptional profiling**
M.J. Borrett*[1,3], S.A. Yuzwa[1], B.T. Innes[3], A. Voronova[1], T. Ketela[2], D.R. Kaplan[1,3], G.D. Bader[3], F.D. Miller[1,3], *[1]Hospital for Sick Children, Canada, [2]University Health Network, Canada, [3]University of Toronto, Canada*

[P2.084] **Decline in Olig2-dependent NG2 glial cell fate plasticity with age**
H. Zuo[1], W.M. Wood[1], A. Sherafat[1], R.A. Hill[1], Q.R. Lu[1,2], A. Nishiyama*[1], *[1]University of Connecticut Storrs, USA, [2]Cincinnati Children's Hospital Medical Center, USA*

[P2.085] **Analysis of *δ-catenin* as a novel autism spectrum disorder (ASD) gene in early development of the mammalian telencephalon**
S.H. Chun*, T. Kikkawa, T. Sato, N. Osumi, *Tohoku University, Japan*

[P2.086] **Notch signaling dynamics for the asymmetric cell fate determination in the mouse neurogenesis**
S. Mase*[1,2], Y. Tsunekawa[1], A. Shitamukai[1], F. Matsuzaki[1,2], *[1]RIKEN, Japan, [2]Kyoto University, Japan*

[P2.088] **Baf chromatin remodelling complexes regulate differentiation of neural progenitors in late brain development**
K.A. Kiszka*[1,2], C. Kerimoglu[3], M. Pirouz[4], A. Fischer[3], J.F. Staiger[1,2], T.C. Tuoc[1,2], *[1]University Medical Center Göttingen, Germany, [2]Center for Nanoscale Microscopy and Molecular Physiology of the Brain, Germany, [3]German Center for Neurodegenerative Diseases, Germany, [4]Harvard Medical School, USA*

[P2.089] **The role of *Fgf8* for development of the anterior telencephalon**
T. Sato*[1], T. Kikkawa[1], T. Saito[2], K. Itoi[1], N. Osumi[1], *[1]Tohoku University, Japan, [2]Chiba University, Japan*

[P2.090] **Temporal control of neurogenesis by eph/ephrin signaling**
A. Kischel*[1], M-A. Fawal[1], T. Jungas[1], C. Audouard[1], J. Iacovoni[2], A. Davy[1], *[1]Université Paul Sabatier, France, [2]Université de Toulouse, France*

[P2.091] **Feedback signaling from neuron to neural stem cell**
A. Shitamukai*[1], D. Konno[1], T. Shimogori[2], A. Goto[3], H. Kiyonari[4], S. Takada[5], M. Matsuda[3], F. Matsuzaki[1], *[1]RIKEN CDB, Japan, [2]RIKEN BSI, Japan, [3]Kyoto University, Japan, [4]RIKEN CLST, Japan, [5]National Institute for Basic Biology, Japan*

[P2.092] **Cortical intermediate GABAergic neuron progenitors divide symmetrically to produce similar GABAergic neuron pairs**
S.E. Esumi*[1], M.N. Nasu[1], K.M. Miike[1], T.S. Seki[4], Y.Y. Yanagawa[2], K.S. Sakimura[3], N.T. Tamamaki[1], *[1]Kumamoto University, Japan, [2]Gunma University, Japan, [3]Niigata University, Japan, [4]Tokyo Medical University, Japan*

[P2.093] **Overexpression of Hes1 leads to prolonged neocortical neurogenesis and expansion of neural stem cell reservoir in postnatal brain**
T. Ohtsuka*, R. Kageyama, *Kyoto University, Japan*

[P2.094] **Region-specific roles of SOX9 during brain neuroepithelial progenitor differentiation**
A. Caramello*, K. Rizzoti, C. Galichet, R. Lovell-Badge, *The Francis Crick Institute, UK*

[P2.095] **A novel G-protein Coupled Receptor involved in the pattern formation of the central nervous system**
A. Yatsuzuka, A. Nishi-Hori, M. Kadoya, N. Sasai*, *Nara Institute of Science and Technology, Japan*

[P2.096] **Control of the cell fate in the developing neocortex by protein phosphorylation**
M. Ambrozkiewicz*[1], E. Borisova[2], A. Rusanova[2], V. Tarabykin[1,2], *[1]Charité – Universitätsmedizin Berlin, Germany, [2]Lobachevsky State University of Nizhny Novgorod, Russia*

[P2.097] **Transcriptional mechanisms underlying the establishment of sensory areas**
P. Hou*, C. Hanashima, *Waseda University, Japan*

[P2.098] **Triggering astrocyte differentiation by cyclin-dependent kinase inhibitor in the neural stem cell**
W. Lee*, Y. Kosodo, *Korea Brain Research Institute, Republic of Korea*

[P2.099] **Histone 3 lysine 79 methylation carries information of neuronal progenitor differentiation in the CNS**
H. Franz, A. Villarreal, P. Bovio, A. Gray de Christoforis, T. Vogel*, *Albert-Ludwigs-University Freiburg, Germany*

[P2.100] **A mechanism of region-specific neocortical overgrowth relevant to autism spectrum disorder**
D. Kawaguchi*[1], D. O'Leary[2], Y. Gotoh[1], *[1]The University of Tokyo, Japan, [2]The Salk Insittute, USA*

[P2.101] **Functions of lincRNAs in physiological neurogenesis and induced reprogramming of astrocytes-to-neurons**
C. Nakajima*[1], S. Thakurela[2], V. Tiwari[2], B. Berninger[1], *[1]University Medical Center Johannes Gutenberg University Mainz, Germany, [2]Institute of Molecular Biology (IMB), Germany*

[P2.102] **Dmrt transcription factors orchestrate the cerebral cortical development *via* integrating positional information in neural progenitors**
D. Konno*, F. Matsuzaki, *RIKEN, Japan*

[P2.103] **Neural activity training: rehabilitative treatments to improve neural circuits functions**
P. Crispiani, E. Palmieri*, *University Macerata, Italy*

[P2.104] **Minor spliceosome inactivation in the developing mouse cortex causes self-amplifying radial glial cell death and microcephaly**
M. Baumgartner*[1], A.M. Olthof[1], G.S. Aquino[1], C. Lemoine[2], K. Hyatt[1], R.N. Kanadia[1], *[1]University of Connecticut, USA, [2]University of Illinois, USA*

[P2.105] **HIF1a role in early neural commitment and development**
J. Vecera*[1], V. Konir[1], J. Kudova[2], V. Sumberova[1], L. Kubala[2], E.R. Andersson[3], J. Pachernik[1], *[1]Masaryk University, Czech Republic, [2]Institute of Biophysics, Czech Republic, [3]Karolinska Institutet, Sweden*

[P2.106] **Prenatal neurogenesis induction therapy normalizes brain structure and functions in Down syndrome mice**
A. Nakano-Kobayashi*[1], T. Awaya[1], I. Kii[1], Y. Sumida[2], Y. Okuno[1], K. Wanezaki[1], S. Yoshida[2], H. Inoue[1], T. Hosoya[2], M. Hagiwara[1], *[1]Kyoto University, Japan, [2]Tokyo Medical and Dental University, Japan*

[P2.107] **Developing de novo gene targeting methods**
Y. Tsunekawa*[1], R. Terhune[1,2], K. Suzuki[1], E. Kim[3], E. Callaway[3], J. Belmonte[3], F. Matsuzaki[1,2], *[1]Riken Center for Developmental Biology, Japan, [2]Kyoto University Global Frontier in Life Science, Japan, [3]Salk Institute for Biological Studies, USA*

[P2.108] **The amygdalar and hippocampal functions in zebrafish**
K. Kawakami, *National Institute of Genetics, Japan*

[P2.109] **Forebrain *Ptf1a* is required for sexual differentiation of the brain**
T. Fujiyama*[1,2], H. Funato[1,3], M. Hoshino[2], *[1]WPI-IIIS, University of Tsukuba, Japan, [2]National Institute of Neuroscience, NCNP, Japan, [3]Toho University, Japan*

[P2.110] **Association between rhythm/exercise intervention and execution function and neural plasticity in children with ASD**
M. Morinaga*[1], T. Yamamoto[2], *[1]General incorporated association LITTO-LABO, Japan, [2]Tezukayama University, Japan*

[P2.111] **Usp9x-null mice show corpus callosum dysgenesis and cortical dysplasia**
M.A. Kasherman*[1,2], S.A. Wood[1], M. Piper[2], *[1]Griffith University, Australia, [2]University of Queensland, Australia*

[P2.112] **The heat shock protein 72 –mediated heat tolerance in primary hypothalamic neurons**
C.P. Chang*, C.C. Chio, M.T. Lin, K.C. Lin, *Chi Mei Medical Center, Taiwan*

[P2.113] **Human umbilical cord mesenchymal stem cells attenuate ischemic stroke in rats by inhibiting cerebral formation of hypertrophic microglia/macrophages**
M.T. Lin*[1], Y.C.Y. Hsuan[2], C.P. Chang[1], *[1]Chi Mei Medical Center, Taiwan, [2]Meridigen Biotech Co., Ltd., Taiwan*

[P2.114] **The emergence of network inefficiencies in infants with autism spectrum disorder**

J.D. Lewis*[1], A.C. Evans[1], J.R. Pruett, Jr[2], K.N. Botteron[2], R.C. McKinstry[2], L. Zwaigenbaum[3], A. Estes[4], D.L. Collins[1], P. Kostopoulos[1], G. Gerig[5], *[1]McGill University, Canada, [2]Washington University School of Medicine, Canada, [3]University of Alberta, Canada, [4]University of Washington, USA, [5]New York University, USA*

[P2.116] **Schwann cell lamellipodia regulate cell-cell interactions and phagocytosis**
J. Tello Velasquez*, J.A. St John, L. Nazareth, J.A.K. Ekberg, *Griffith University, Australia*

[P2.117] **Novel roles of Fgf signaling in the development of chick hindbrain**
J. Hatakeyayama*, K. Shimamura *Kumamoto University, Japan*

[P2.119] **Selective myelinatoin of primary motor neurons mediated by Nrg1type3-ErbB2/3 signaling in the zebrafish PNS**
D-W. Lee*, E.M. Kim, I.Y. Jeong, H-K. Kim, B.A. Kim, S.H. Kim, H-C. Park, *Korea university, Republic of Korea*

[P2.120] **Analysis of spexin 1/2 expression suggests potential roles of spexin neuropeptides in the zebrafish CNS**
E. Kim*, I. Jeong, J.Y. Seong, H-C. Park, *Korea University, Republic of Korea*

[P2.122] **Spatial genome organization in the developmental brain**
Y. Fujita*, T. Yamashita, *Osaka University, Japan*

[P2.123] ***AKT1* promoter methylation in the peripheral blood of Malaysian schizophrenia patients**
E. Laere*, S.F. Tee, P.Y. Tang, *Universiti Tunku Abdul Rahman, Malaysia*

[P2.124] **Perceptions of social dominance in bipolar disorder**
S-H. KIM, *Yong-in Mental Hospital, Republic of Korea*

[P2.125] **BNF is related to cardiovascular function in adolescents**
M.A. Alomari*, N.A. Al-Sheyab, *Jordan University of Science and Technology, Jordan*

[P2.126] **Regulation of Neurogenin 2 proneural activity via the Polycomb protein Mbt1 in cortical progenitors**
S. Han*[1,2], G. Wilkinson[2], S. Li[2], Y. Ilnytskyy[3], L. Adnani[1,2], R. Dixit[1,2], D. Zinyk[1,2], J. Biernaskie[2], I. Kovalchuk[3], C. Schuurmans[1,2], *[1]Sunnbryook Research Institute, Canada, [2]University of Calgary, Canada, [3]University of Lethbridge, Canada*

[P2.127] **Developmental parcellation of the striatal complex into the dorsal and ventral striatum of the mouse brain**
S-Y. Chen[1], K-M. Lu[1], H-A. Ko[1], T-H. Huang[1], J.H-J. Hao[1], H-Y. Kuo[1], Y-T. Yan[2], S.L-Y. Chang[3], S. Evans[4], F-C. Liu*[1], *[1]National Yang-Ming University, Taiwan, [2]Academia Sinica, Taiwan, [3]China Medical University, Taiwan, [4]University of California San Diego, USA*

[P2.128] **JAK/STAT guarantees robust differentiation of neural stem cells by shutting off biological noises in the developing fly brain**
M. Sato*[1], T. Yasugi[1], Y. Tanaka[2], T. Miura[3], M. Nagayama[2], S. Ei[2], *[1]Kanazawa University, Japan, [2]Hokkaido University, Japan, [3]Kyushu University, Japan*

[P1.005] **Testing functional consequences of Lhx2 over-expression mediated hippocampal neurogenesis**
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Withdrawn:
P1.017, P1.074, P2.053, P2.069, P2.115, P2.121