P1-1 Abnormal organization of pinceau in the cerebellum of Kirrel3-deficient mice
Tomoko Hisaoka  Dept. of Anatomy and Neurobiology, Wakayama, Japan

P1-2 Multiple functions of Meis1 in cerebellar granule cell development
Tomoo Owa  Dept of Biochemistry and Cellular Biology, National Institute of Neurosciences

P1-3 Deletion of exons encoding carboxypeptidase domain of Nna1 in mice results in Purkinje cell degeneration phenotype
Hirohide Takebayashi  Div of Neurobiol. & Anat., Niigata Univ., Niigata, Japan

P1-4 Irregular activation of IP3R1-mediated signaling through MAMs induces axonal swellings and subsequent cell death in Purkinje neurons in CST-/- mice
Tomoko Ishibashi  Department of Molecular Neurobiology, Tokyo University of Pharmacy and Life Sciences

P1-5 Reelin controls N-cadherin-dependent neuronal adhesion by a couple of mechanisms in the developing mouse cortex
Kanehiro Hayashi  Dept. of Anatomy, Keio University School of Medicine

P1-6 Analysis of subcellular distribution of Dab1 in cerebral neocortical excitatory neurons using highly sensitive tagging by genome editing

P1-7 Cohesin regulates neuronal network formation in the brain

P1-8 The upregulated expression mechanism of nur77 gene and its downstream target gene in early stage of the forskolin-induced differentiation in PC12 cells
Hirotoki Maruoka  Lab. of Neurobiology, Dept. of Life Science and Biotech., Fac. of Chemistry, Materials and Bioengineering, Kansai University

P2-1 Analysis of regulatory factors of G-protein-coupled receptors localization at the primary cilium
Sho Shikada  Dept Child Development & Mol Brain Sci, United Grad Sch Child Development, Osaka Univ

P2-2 TULP3 regulates the formation of primary cilia and the localization of ciliary membrane proteins in hTERT-RPE1
Sarina Han  Molecular Bra Sci, United Grad Sch of Child Develo p, Osaka Univ, Osaka, Japan

P2-3 Primary cilia length in energy balance signaling involved in melanin-concentrating hormone receptor
Tomoya Okada  Grad Schl of Integrated Arts and Sciences, Hiroshima University, Hiroshima, Japan
| P2-4 | Ciliary G-protein-coupled receptor MCHR1 and SSTR3 affects cilia length control via different mechanisms
Sakura Tomoshige Graduate School of Integrated Arts and Sciences, Hiroshima University |
| P2-5 | Rho-kinase regulates the Ras activity through phosphorylation of SynGAP1
Mengya Wu Dept. of Cell Pharmacol. Med., Univ. of Nagoya |

Poster 3
Glia
6 (Thu.) Sep. 17:50~18:50 Poster Room 1 (3F, Lounge)


| P3-1 | Insulin regulates expression of neprilysin and IDE in cultured astrocytes
| P3-2 | Intracellular labile zinc level is a determinant of vulnerability of cultured astrocytes to oxidative stress
Kazuki Nagasawa Dept. of Environ. Biochem., Kyoto Pharm. Univ. |
| P3-3 | Mechanism of thymidine incorporation into acid insoluble fraction via nucleoside transporters on oxidative stress DNA injury in Cultred Astrocytes
Koh-Ichi Tanaka Division of Pharmacology, Department of Pharmacy, School of Pharmacy, Hyugo University of Health Sciences, Hyogo, Japan / Department of Pharmacology, Hyogo College of Medicine, Hyogo, Japan / Department of Applied Pharmacology, Kagoshima University / Graduate School of Medical and Dental Sciences, Kagoshima, Japan |
| P3-4 | Mechanism of memory impairment in Astrocyte specific Tsc1 knockout mouse
Tadayuki Shimada Synaptic plasticity project, Tokyo Metropolitan Institute of Medical Science |
| P3-5 | Establishment of differentiation methods and its functional analysis of microglia-like cells from mice hematopoietic stem cells in peripheral blood
Eriko Kuroda Department of Clinical and Translational Physiology, Kyoto Pharmaceutical University, Kyoto, Japan |
| P3-6 | Donepezil suppresses intracellular Ca2+ mobilization through the PI3K pathway in rodent microglia
Yoshinori Haraguchi Department of Psychiatry, Faculty of Medicine, Saga University, Saga, Japan |
| P3-7 | Microglia enhance the functional maturation of blood-brain barrier by regulating the cytokine/chemokine dynamics
| P3-8 | Functional expression of TRP channels and their roles in oligodendrocyte precursor cells
| P3-9 | Electroconvulsive stimulation transiently enhances the permeability of the rat blood-brain barrier and induces astrocytic changes
Masanobu Ito Department of Psychiatry, Juntendo University Faculty of Medicine, Tokyo |
| P3-10 | The effect of carba-derivative of cyclic phosphatidic acid on microglial and astrocyte cells during the repair of a stab-wounded mouse cerebral cortex
**Poster 4**  
6 (Thu.) Sep. 17:50～18:50 Poster Room 1 (3F, Lounge)  
**Neurological Diseases 1**

Chair: Kazuya Iwamoto  
Department of Molecular Brain Science, Graduate School of Medical Sciences,  
Kumamoto University

| P4-1 | The effect of ar-turmerone on neuronal survival and axonal growth  
Yuya Saga  
Fac. Eng., Univ. Fukui |
| P4-2 | A molecular signal that controls tissue damage and repair in the brain white matter  
Hiromi Nagai  
| P4-3 | IVlg treatment is effective for the Lysolecithin-induced peripheral nerve demyelination of mice  
Akiko Hayashi  
Department of Molecular Neurobiology, Tokyo University of Pharmacy and Life  
Sciences, Japan |
| P4-4 | Involvement of gene expression changes via DNA and histone hypomethylation in folate deficiency-induced abnormal neuronal maturation  
Shoji Nishida  
Laboratory of Functional Biomolecules and Chemical Pharmacology,  
Faculty of Pharmaceutical Sciences, Setsunan University |
| P4-5 | A study on cerebrospinal fluid biomarkers for fronto-temporal lobar degeneration  
Yoko Tsuchimoto  
Biotech. and Life Sci., Tokyo Univ. of Agr and Tech.  
Department of Mental Disorder Research, National Institute of Neuroscience, NCNP, Japan |
| P4-6 | Role of microglia in astrogliopathy: a study of Alexander disease model  
Eiji Shigetomi  
Dept. Neuropharmacol., Interdisipl. Grad. Sch. of Med., Univ. Yamanashi,  
Yamanashi, Japan |
| P4-7 | Screening of familial ALS/FTLD causative genes identifies mechanism of TDP-43 aggregation in cultured neuronal cells  
Hidekazu Inami  
| P4-8 | Identification of MAM disruption as a general pathological mechanism in ALS  
Seiji Watanabe  

**Poster 5**  
6 (Thu.) Sep. 17:50～18:50 Poster Room 2 (5F, Lounge)  
**Schizophrenia 1**

Chair: Jun Miyata  
Department of Psychiatry, Graduate School of Medicine, Kyoto University

| P5-1 | Developing a method for detection of novel LINE-1 insertion using single brain cells  
Miki Bundo  
Molecular Brain Science, Kumamoto Univ. Kumamoto, Japan  
PRESTO JST, Saitama, Japan |
| P5-2 | Establishment of a new protocol for quantifying the copy number of active LINE-1 subfamilies in mice  
Ryota Kuroki  
Department of Molecular Brain Science, Graduate School of Medical Sciences,  
Kumamoto University, Kumamoto, Japan |
| P5-3 | Glutamatergic Neurometabolite Levels in Patients with Ultra Treatment-Resistant Schizophrenia: a Cross-sectional 3T Proton MRS study  
Shinichiro Nakajima  
Department of Neuropsychiatry, School of Medicine, Keio University, Tokyo, Japan  
Toronto, Canada |
P5-4 Smoking rates and number of cigarettes smoked per day in schizophrenia: A large cohort meta-analysis in a Japanese population
Kazutaka Ohi  Dept. of Neuropsychiatry, Kanazawa Med. Univ./Medical Research Institute, Kanazawa Med. Univ.

P5-5 Characteristics of resting-state EEG power spectrum in patients with chronic schizophrenia
Takahiro Miyazaki  Department of Neuropsychiatry, Keio University, Tokyo, Japan/Nishigahara Hospital, Tokyo, Japan

P5-6 Suppression of Centaurin gamma 1A rescues the reduced prepulse inhibition in Drosophila larval model of fragile X syndrome
Takako Morimoto  Lab of Neuroscience and Neurology, Sch of Life Sci, Tokyo Univ of Pharm and Life Sci

P5-7 Predictive Accuracy for Work Outcome in Patients with Schizophrenia: Examination Based on the Functioning Levels
Chika Sumiyoshi  Faculty of Human Development and Culture, Fukushima University, Fukushima, Japan

P5-8 Abnormalities of eye movement are associated with work hours in schizophrenia
Kentaro Morita  Department of Neuropsychiatry, Graduate School of Medicine, University of Tokyo, Tokyo, Japan

P5-9 A preliminarily study of near-infrared spectroscopy to measure a resting state activity in prefrontal cortex of schizophrenia
Masaya Yanagi  Department of Neuropsychiatry, Kindai University Faculty of Medicine, Osaka-sayama, Osaka, Japan

P5-10 Gamma-band auditory steady-state response is associated with plasma level of D-serine in schizophrenia
Kaori Usui  Department of Neuropsychiatry, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan

Poster 6  6 (Thu.) Sep. 17:50~18:50  Poster Room 2 (5F, Lounge)
Mood Disorders I

Chair: Ryota Hashimoto  Department of Pathology of Mental Diseases National Institute of Mental Health National Center of Neurology and Psychiatry

P6-1 Development of diagnostic method for postpartum depression using comprehensive DNA methylation analysis
Yukako Nakamura  Department of Psychiatry, Nagoya University Graduate School of Medicine

P6-2 Relation of the DGKH genotype with openness to experience, a premorbid personality trait of bipolar disorder
Yoshihiko Matsumoto  Department of Psychiatry, Yamagata University School of Medicine, Yamagata, Japan

P6-3 The alternation of the splicing patterns caused by a de novo mutation of UNC13B found in a patient with bipolar disorder
Kotori Jimbo  Faculty of Medicine, Nara Medical University, Nara, Japan/Laboratory for Molecular Dynamics of Mental Disorders, RIKEN Center for Brain Science, Saitama, Japan
| **P6-4** | Effects of return-to-work program on autonomic nervous system activity in workers on sick leave due to depression  
Saki Hattori  
Department of Psychiatry, Yokohama City University School of Medicine, Yokohama, Japan |
| **P6-5** | Carbonyl stress in mood disorder  
Mitsuhiro Miyashita  
Project for Schizophrenia Research, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan  
Department of Psychiatry, Tokyo Metropolitan Matsuzawa Hospital, Tokyo, Japan  
Takatsuki Clinic, Akishima, Japan  
Department of Psychiatry, Shinshu University School of Medicine, Matsumoto, Japan |
| **P6-6** | Oxidative stress and mitochondrial defects in the paraventricular thalamic nucleus of patients with bipolar disorder  
Mie Kubota-Sakashita  
Lab for MDMD, RIKEN CBS, Saitama, Japan |
| **P6-7** | Estimation of depression-like behaviors using a test battery in drug-induced model of common marmosets  
Hajime Yamanaka  
Systems Neuroscience, Primate Research Institute, Kyoto University, Inuyama, Japan |

**Poster 7**  
6 (Thu.) Sep. 17:50~18:50  
Poster Room 2 (5F, Lounge)

**Others**

Chair: Takahiro Shinkai  
Department of Psychiatry, University of Occupational and Environmental Health

| **P7-1** | Maternal Behavior of CD38 Knockout Dams is Improved by Social Support  
Takahiro Tsuji  
Department of Ophthalmology, Faculty of Medical Sciences, University of Fukui  
Department of Basic research on Social Recognition and Memory, Research Center for Child Mental Development, Kanazawa University, Kanazawa, Japan |
| **P7-2** | How lateralization indices of fMRI show concordances across language tasks  
Kayako Matsuo  

**P7-3**  
Moderation of sensitivity to parental behaviors during characterization of personality traits by mu-opioid receptor polymorphism  
Akihito Suzuki  
Department of Psychiatry, Yamagata University School of Medicine

**P7-4**  
Neurocognitive profile in Anorexia Nervosa  
Hiroko Tamiya  
Department of Psychiatry, Kobe University Graduate School of Medicine, Kobe, Japan

| **P7-5** | Effect of perampanel on acute itch in mice  
Ayaka Haruta-Tsukamoto  
Dept. of Psychiatry, Faculty of Medicine, Univ. of Miyazaki |
| **P7-6** | Development of innovative wide-view mapping of synaptic ensemble in the psychiatric model  
Kisho Obi  
Lab of medical neuroscience, Institute for Molecular and Cellular Regulation, Gunma University |
| **P7-7** | Biological mechanism of time discount disability in psychiatric disorders: a systematic review  
Elsalhy Muhammad  
Department of Neuropsychiatry, Keio University Graduate School of Medicine |
### Poster 8 Development 2

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<th>Poster 8</th>
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**Chair:** Makoto Kinoshita  
Department of Biological Science Nagoya University

- **P8-1**  
  **Role of LOTUS, a neural circuit formation factor in memory function**  
  Ryohei Nishida  
  Molecular Medical Bioscience Laboratory, Yokohama City University Graduate School of Medical Life Science, Yokohama, Japan

- **P8-2**  
  **Blockade by LOTUS, a neural circuit formation factor, of axonal growth inhibition induced by Nogo-PirB interaction**  
  Yuji Kurihara  

- **P8-3**  
  **The N-terminal region of soluble LOTUS forms a stable structure for secretion and functions in inhibition of Nogo receptor-mediated signaling**  
  Haruna Tezuka  
  Molecular Medical Bioscience Laboratory, Yokohama City University Graduate School of Medical Life Science

- **P8-4**  
  **Expression pattern of LOTUS, a neural circuit formation factor, in the central nervous system**  
  Yui Norisue  

- **P8-5**  
  **The soluble form of LOTUS suppresses BLyS-and CSPG-induced Nogo receptor signaling**  
  Yutaka Kawakami  
  Department of Medical Life Science, Yokohama City University Graduate School, Yokohama, Japan

- **P8-6**  
  **The role of AUTS2 gene in the corticogenesis**  
  Kazumi Shimaoka  
  Dept. of Biochem. & Cell. Biol., NCNP, Tokyo

- **P8-7**  
  **The role of Auts2 in the dentate gyrus development**  
  Saki Egusa  
  Dept. of Biochem. & Cell. Biol., NCNP, Tokyo

- **P8-8**  
  **CD38 is Required for Dendritic Organization in Visual Cortex and Hippocampus**  
  Hideo Matsuzaki  
  Research Center for Child Mental Development, University of Fukui

- **P8-9**  
  **SAM68-specific splicing controls proper 3'UTR isoform selection of interleukin 1-receptor accessory protein through ALE usage**  
  Takatoshi Iijima  
  Tokai University Institute of Innovative Science and Technology, Medical Division

### Poster 9 Cell Signaling 2

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<th>Poster 9</th>
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**Chair:** Itsuki Ajioka  
Tokyo Medical and Dental University

- **P9-1**  
  **MARK4 is activated via its phosphorylation by Cdk5**  
  Taro Saito  
  Dept Biol. Sci, Tokyo Met Univ

- **P9-2**  
  **Tyrosine phosphorylation of SIRP α as a cellular stress response correlated with intracellular Ca dynamics**  
  Daiki Jingu  

- **P9-3**  
  **PRMT1 regulates COPI vesicle transport via methylation of Scyl1 at cis-Golgi**  
  Genki Amano  
  Molecular Brain Science, United Graduate School of Child Development, Osaka University
| P9-4 | Effects of serotonin on the fetal movement-like activity in the spinal cord  
Akiko Arata  Dept.of Physiology, Hyogo College of Medicine |
| P9-5 | Expression of pro-inflammatory cytokines and their receptors in GT1-7 cells  

### Poster 10

**Synapses**

**Chair:** Yuchio Yanagawa  
Gunma University Graduate School of Medicine

| P10-1 | Effect of drebrin knockout on synaptic plasticity  
Tomoaki Shirao  Dept. of Neurobiology and Behavior, Gunma Univ. Grad. Sch. of Med., Maebashi, Japan |
| P10-2 | Drebrin interacts with the kinase domain of CaMKII β and stabilizes CaMKII α / β hetero-oligomer in the inner region of dendritic spines  
Hiroyuki Yamazaki  Department of Neurobiology and Behavior, Gunma University School of Medicine |
| P10-3 | Molecular mechanisms of proBDNF-induced dendritic spine shrinkage  
Toshiyuki Mizui  Molecular and Cellular Pathology Research Team, Biomedical Research Institute, AIST, Osaka, Japan |
| P10-4 | Chemico-genetic discovery of molecules underlying tripartite-synaptic function in vivo  
Tetsuya Takano  The Department of Cell Biology, Duke University Medical School |
| P10-5 | Branched sialylated N-glycans are accumulated in brain synaptosomes and interact with Siglec-H  
Takeshi Yoshimura  Dept. of Child Development and Mol. Brain Sci., United Grad. Sch. of Child Development, Osaka Univ./ Div. of Neurobiology and Bioinformatics, NIPS, NINS/ Dept. of Physiol. Sci., Sch. of Life Sci., SOKENDAI |

### Poster 11

**Memory, Emotion, Behavior 1**

**Chair:** Hiroyuki Okuno  
Kagoshima University Graduate School of Medical and Dental Sciences

| P11-1 | The pivotal role of PACAP-induced astrocyte-neuron lactate shuttle in fear memory acquisition and retrieval  
| P11-2 | The analysis of neuropsin dependent and independent late associative memory  
Yasuyuki Ishikawa  Department of Systems and Life Engineering, Maebashi Institute of Technology, Gunma, Japan |
| P11-3 | Abnormal neural activation patterns underlying working memory impairment in chronic phencyclidine-treated mice  
Yosefu Arime  Department of Biological Psychiatry and Neuroscience, Dokkyo Medical University School of Medicine |
| **P11-4** | Effect of post-reexposure administration of KNT-127 on extinction learning or reconsolidation of contextual fear memory in rats  
Hiroki Furuie  
Dept of Neuropsychopharmacol, NCNP, Tokyo, Japan |
| **P11-5** | Effect of NAD+ supplementation on mice behavior  
Maria Gerasimenko  
United Graduate School of Child Development, Osaka University, Kanazawa University, Hamamatsu University School of Medicine, Chiba University and University of Fukui |
| **P11-6** | Analysis of paternal aggression in ICR strain  
Anna Shabalova  
Research Center for Child Mental Development, Kanazawa University, Kanazawa, Japan |
| **P11-7** | The new analogs of oxytocin.: Activity, selectivity, and effects on behavior  
Stanislav Cherepanov  
Research Center for Child Mental Development, Kanazawa University |

**Poster 12**

**Neurological Diseases 2**

7 (Fri.) Sep. 16:10~17:10 Poster Room 1 (3F, Lounge)

Chair: Hiroko Baba  
Tokyo University of Pharmacy and Life Sciences

| **P12-1** | Pathophysiological changes of progranulin in activated microglia after cerebral ischemia  
Ichiro Horinokita  
School of Pharmacy, Tokyo University of Pharmacy and Life Sciences, Tokyo, Japan |
| **P12-2** | Brain water channel AQP4 involvement in normalization of extracellular potassium after acute ischemic stroke  
Hiromu Monai  
Ochanomizu Univ., Tokyo, Japan/ RIKEN CBS, Wako, Japan |
| **P12-3** | The role of newly-generated astrocytes and blood vessels in scaffold formation for neuroblasts migrating toward the injured region after ischemic stroke  
Kyoka Otake  
| **P12-4** | Effect of Nurr1 ligand amodiaquine on pathology of intracerebral hemorrhage in mice  
Keita Kinoshita  
Dept. of Chemico-Pharmacological Sciences, School of Pharmacy, Univ. of Kumamoto |
| **P12-5** | Changes in expression of BDNF pro-peptide and p75NTR during aging  
Konomi Matsui  
Molecular and Cellular Pathology Research Team, Biomedical Research Institute, AIST, Osaka, Japan |
| **P12-6** | Quantitative analysis of myeloperoxidase (MPO) and brain-derived neurotrophic factor (BDNF) in plasma and saliva in aged  
Masayo Shamoto-Nagai  
Dept. of Health and Nutrition, Faculty of Psychological & Physical Science, Aichi Gakuin Univ. |
| **P12-7** | Traumatic brain injury in aged Drosophila induces hyperactivation of innate immunity  
Tomoya Tanaka  
Department of Applied Biology, Kyoto Institute of Technology, Kyoto, Japan |
| **P12-8** | Pathophysiological analysis of inherited leukodystrophy with defective myeline lipid metabolism and its therapeutic application to the demyelinating diseases  
Yasushi Enokido  
Dept. of Pathol., Inst. of Dev. Res., Aichi Human Service Center |
### Schizophrenia 2

**Chair:** Yoichiro Takayanagi  
Department of Neuropsychiatry, University of Toyama

| P13-1 | Review of the findings which suggest Niemann-Pick disease type C in the patients with schizophrenia  
Kumiko Fujii  
Department of Psychiatry, Dokkyo Medical University School of Medicine, Tochigi, Japan |
| P13-2 | The comparison of the trazodone monotherapy with the ramelteon and trazodone combination therapy on the management of delirium: A retrospective study  
Takao Ishii  
The Department of Neuropsychiatry, School of Medicine, Sapporo Medical University, Sapporo, Japan |
| P13-3 | Glutathione Levels in Patients with Schizophrenia - A Systematic Review and Meta-analysis  
Sakiko Tsugawa  
Department of Neuropsychiatry, Keio University School of Medicine, Tokyo, Japan |
| P13-4 | Classification of treatment resistant to antipsychotics in schizophrenia using resting-state functional magnetic resonance imaging  
Ryo Ochi  
Faculty of Environment and Information Studies, Keio University, Kanagawa, Japan |
| P13-5 | Impairment of Beat Production Ability Relates to Language Disturbance in Patients with Schizophrenia  
Karin Matsushita  
Faculty of Environment and Information Studies, Keio University |
| P13-6 | The relationship between volumetric alteration and glutamatergic neurometabolite levels in precommissural caudate in patients with chronic schizophrenia  
Sakiko Tsugawa  
Department of Neuropsychiatry, Keio University School of Medicine, Tokyo, Japan |
| P13-7 | Micro-structural volumes of the limbic system in patients with treatment-resistant schizophrenia  
Sakiko Tsugawa  
Department of Neuropsychiatry, Keio University School of Medicine, Tokyo, Japan |
| P13-8 | Glutamate levels in patients with treatment-resistant schizophrenia: a cross-sectional proton magnetic resonance spectroscopy study  
Ryosuke Tarumi  
Department of Neuropsychiatry, Keio University School of Medicine |
| P13-9 | The investigation of ALDH4A1 expression in the postmortem brains from patients with schizophrenia-genetic neuropathology  
Atsuko Nagaoka  
Departments of Neuropsychiatry, Fukushima Medical University School of Medicine, Fukushima, Japan |
| P13-10 | The relationship between electroencephalography delta activity and cognitive function among in patients with chronic schizophrenia  
Masataka Wada  
Department of Neuropsychiatry, Keio University School of Medicine |
**Poster 14**

**Mood Disorders 2**

Chair: Minoru Takebayashi  
Department of Neuropsychiatry, Faculty of Life Sciences, Kumamoto University

| P14-1 | Eye Movement Abnormalities in Major Depressive Disorder  
Junichi Takahashi  
Department of Neuropsychiatry Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan |

| P14-2 | A novel 5HT3 receptor-IGF1 mechanism distinct from SSRI-induced antidepressant effects  
Makoto Kondo  

| P14-3 | TMS-induced EEG phase locking values evaluate the effect of electroconvulsive therapy for depressive state  
Masayuki Ide  
Department of Psychiatry, Division of Clinical Medicine, Faculty of Medicine, University of Tsukuba, Tsukuba, Japan |

| P14-4 | Association between response to antidepressants and the increase of CA3 region in left hippocampus with major depressive disorder  
Asuka Katsuki  
Department of Psychiatry, University of Occupational and Environmental Health, Kitakyushu, Japan |

| P14-5 | Neuron-Related Blood Inflammatory Markers as an Objective Evaluation Tool for Major Depressive Disorder: An Exploratory Pilot Case-Control Study  
Nobuki Kuwano  
Department of Neuropsychiatry, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan |

| P14-6 | Wearable devices for evaluation of mood disorders: systematic review and meta-analysis  
Yuuki Tazawa  
Department of Psychiatry, School of Medicine, Keio University |

**Poster 15**

**ADHD/ASD/Epilepsy 1**

Chair: Masamichi Yokokura  
Department of Psychiatry, Hamamatsu University School of Medicine

| P15-1 | Mitochondrial dysfunction in dopaminergic neurons differentiated from exfoliated deciduous tooth-derived pulp stem cells of a child with Rett syndrome  
Keiji Masuda  
Section of Oral Medicine for Children, Faculty of Dental Science, Kyushu Univ., Fukuoka, Japan |

| P15-2 | Need for closure and flexible decision-making in individuals with and without autism spectrum disorder  
Junya Fujino  
Medical Institute of Developmental Disabilities Research, Showa University, Tokyo, Japan  
Department of Psychiatry, Graduate School of Medicine, Kyoto University, Kyoto, Japan |

| P15-3 | PRKD2 harbors ASD-associated de novo mutations and is involved in the regulation of neurodevelopment  
Masayuki Baba  
Laboratory of Molecular Neuropharmacology, Graduate School of Pharmaceutical Sciences, Osaka University |

| P15-4 | A new model of attention deficit/hyperactivity disorder (ADHD) related with Arcadlin  
Takako Takemiya  
Med Res Insti, Tokyo Women's Med Univ, Tokyo, Japan |
| P15-5 | Analysis of USV calls in the valproic acid induced mouse model of autism  
Tomoaki Fujisaku  
Research Center for Child Mental Development, Kanazawa, Japan |
| P15-6 | ASD- and ADHD-like behaviors of LMTK1-knockout mice  
Miyuki Takahashi  
Dept. of Biol. Tokyo Med. Univ. Tokyo |

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**Poster 16**  
**Development 3**  
Chair: Keisuke Kuroda  
Biological Sciences, Tokyo Metropolitan University

| P16-1 | Differentiation of human iPSCs into cortex modified by combination of FGF2 and ambient oxygen  
Noriomi Eguchi  
Dept. of Psychiatry, Univ. of Kobe |
| P16-2 | Characterization of neural networks of human induced pluripotent stem cell-derived neurons  
Kanako Takahashi  
Div. of Pharmacology, Nat. Inst. Hlth. Sci., Kanagawa, Japan |
| P16-3 | Characterization of primary cilia in human induced pluripotent stem cell-derived cortical neurons  
Daisuke Miki  
Graduate School of Integrated Arts and Sciences, Hiroshima University, Hiroshima, Japan |
| P16-4 | Examination of the effects of carbonyl stress on neuronal differentiation and development  
Manabu Toyoshima  
RIKEN Center for Brain Science, Lab. for Molecular Psychiatry |
| P16-5 | Mechanisms of effects of antidepressant SSRI during development of zebrafish brain  
Tomomi Sato  
| P16-6 | Mechanism of neuron specific activation of Factor XIII-A after optic nerve injury for wound healing  
Kayo Sugitani  
| P16-7 | Fork cell-like neurons in the mouse insular cortex  
Misaki Hattori  
Department of Anatomy and Neuroscience, Graduate School of Medicine, Osaka University, Japan |

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**Poster 17**  
**Axons, Trafficking**  
Chair: Keisuke Kuroda  
Department of Cell Pharmacology, Nagoya University Graduate School of Medicine

| P17-1 | A microtubule mediated model for the differential branch regulation of axonal arbor  
Chiaki Imanaka  
Department of Applied Chemistry and Biotechnology, Facil.Eng., Univ. Fukui |
| P17-2 | Distribution regularity of mitochondria in axons  
Ikuma Hori  
Facil.Eng., Univ. Fukui |
| P17-3 | Mechanism of axon retraction with 3-nitro tyrosine  
Masahiro Hirai  
Facil.Eng., Univ. Fukui |
**P17-4** The Molecular Mechanism Regulating Axonal Localization of the Secretion-Related Protein CAPS2

**P17-5** Effect of Chemical chaperone on ER-Golgi SNARE expression and Aβ peptide production in neuronal cells

**P17-6** SKF-10047, a prototype Sigma-1 receptor agonist, facilitated the membrane trafficking and uptake activity of serotonin transporter and its mutant by the mechanism independent of Sigma-1 receptor
Norio Sakai  Dept of Pharmacol Neurosci, Grad Sch of Biomed&Health Sci

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**Poster 18**

**Memory, Emotion, Behavior 2**

**Chair:** Yoshihiro Noda  Department of Neuropsychiatry, Keio University School of Medicine

**P18-1** Effect of acute atomoxetine on brain activity in medial prefrontal cortex during reward task: an fMRI study
Chihiro Suzuki  Anesthesiology and Clinical Physiology, Tokyo Medical and Dental University, Tokyo, Japan

**P18-2** Effects of the adenosine A₁ receptor agonist N⁶-cyclopentyladenosine on hyper-emotionality of olfactory bulbectomized rat
Leo Gotoh  Lab. of NeuroSci., Dept. of Psyc., Fac. of Med., Fukuoka Univ, Fukuoka, Japan

**P18-3** Emotional dysregulation in mice lacking glutamate decarboxylase 67 in somatostatin neurons

**P18-4** Functional roles of FGF23 in the regulation of food intake during fasting

**P18-5** Behavioral analysis and the validity evaluation as a mental disorder model study about Protocadherin15 deficient mice
Ryosuke Ikeda  Dept. of Psychiatry, Nagoya Univ. Grad. School of Med.

**P18-6** L-CLEM: novel procedure for Large area Correlative Light and Electron Microscopy analysis with multi-beam scanning electron microscopy
Taro Iseda  Electron microscope laboratory, Keio University School of Medicine

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**Poster 19**

**Neurological Diseases 3**

**Chair:** Hirohide Takebayashi  Department of Neurobiology and Anatomy, Niigata University

**P19-1** Atomic force microscopy observation of the ganglioside-induced amyloid β aggregation in the presence of metal ions
Koichiro Ito  Faculty of Sci. and Tech., Keio University

**P19-2** Tau Phosphorylation at AT8 Pathological Site during Brain Development
Tuerde Dilina  Graduate School of Medicine, Nagoya University / Department of Biological Sciences, Tokyo Metropolitan University
P19-3 | Tubulin degeneration causes tau abnormalities  
Hitomi Fujiwara  Dept of Neuropathology, Faculty of Life and Medical Sciences, Doshisha Univ, Kyoto, Japan

P19-4 | Elevated mRNA expression and low methylation of SNCA in Japanese Alzheimer's disease subjects  
Yu Funahashi  Department of Neuropsychiatry, Molecules and Function, Ehime University Graduate School of Medicine, Shitsukawa, Ehime, Japan

P19-5 | Synphilin-1 has neuroprotective effect on Parkinson's disease-model cells by inhibiting apoptosis  
Takeo Shishido  Department of Clinical Neuroscience and Therapeutics, Hiroshima University Graduate School of Biomedical and Health Sciences

P19-6 | Neuroprotective effect of molecular hydrogen due to stomach–brain interaction in Parkinson's disease model mice  

P19-7 | Investigation of Parkinsonian neurotoxin-susceptible lysosomal proteins  
Masatsugu Miyara  Gifu Pharmaceutical University, Gifu, Japan /
Research Fellow of Japan Society for the Promotion of Science, Tokyo, Japan /
Graduate School of Biomedical and Health Sciences, Hiroshima University, Hiroshima, Japan

P19-8 | HDAC3 inhibition ameliorates memory function via regulating microglial phenotype in Alzheimer's disease model mice  
Tomoharu Kuboyama  Div of Neuromedical Science, Instit of Natural Med. Univ of Toyama

P19-9 | Effect of educational attainment on Alzheimer's disease-related neuroimaging biomarkers in healthy controls, and participants with mild cognitive impairment and Alzheimer's disease  
Masataka Wada  Department of Neuropsychiatry, Keio University School of Medicine

P19-10 | Genetic silencing of the mitochondrial protein p13 protects against experimental parkinsonism  

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Poster 20  8 (Sat.) Sep. 15:00~16:00  Poster Room 1 (3F, Lounge)

Schizophrenia 3

Chair: Tetsuro Ohmori  Department of Psychiatry, Tokushima University

P20-1 | Evaluation of dopamine D3 receptor occupancy by blonanserin using [11C]-(+)-PHNO  
Takeshi Sakayori  Department of Neuropsychiatry, Nippon Medical School, Tokyo, Japan

P20-2 | Maternal immune activation by poly I:C alter synaptic inputs in CA1 hippocampus in offspring during development  
Hiroki Yoshino  Department of Psychiatry, Nara Medical University

P20-3 | DNA methylation profiling using the brain of neonatal poly(I:C) marmoset model  
Yui Murata  Dept. Molecular Brain Science, Kumamoto Univ, Kumamoto, Japan

P20-4 | Whole exome sequencing of 14 schizophrenia multiplex families in Japan  
Miho Toyama  Department of Psychiatry, Nagoya University Graduate School of Medicine, Nagoya, Japan
| P20-5 | METH-induced behavioral deficits and morphological changes of accumbal neurons in an animal model for schizophrenia  
Kazuhiro Hada  Department of Neuropsychopharmacology and Hospital Pharmacy, Nagoya University Graduate School of Medicine |
| P20-6 | Relationship between concentrations of glutamate in caudate and abilities of musical beat perception and production in schizophrenia  
Shiori Honda  Graduate School of Media and Governance, Keio University, Kanagawa, Japan |
| P20-7 | Neurocognitive Deficits in anorexia nervosa and schizophrenia by using the MATRICS Consensus Cognitive Battery  
Runshu Chen  Dept. of Psych. Med., Univ. of Kobe |
| P20-8 | Correlation analysis between mismatch negativity and gamma-oscillation in early stages of schizophrenia  
Daisuke Koshiyama  Department of Neuropsychiatry, Graduate School of Medicine, The University of Tokyo |

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**Poster 21**

**Mood Disorders 3**

| P21-1 | An approach from familial psychiatric patients in the Ryukyu Islands: Disease modeling based on induced pluripotent stem cell and high-impact variant  
Gakuya Takamatsu  Department of Molecular & Cellular Physiology, Graduate School of Medicine, University of the Ryukyu, Department of Neuropsychiatry, Graduate School of Medicine, University of the Ryukyu |
| P21-2 | Modeling de novo mutations found in bipolar disorder patients in mice by CRISPR/Cas9 system  
Takumi Nakamura  Department of Life Science, Graduate School of Arts and Science, The University of Tokyo, Tokyo, Japan |
| P21-3 | The potential causal relationship between anti-NMDAR antibody and mood disorders  
Hiroki Kawai  The Department of Neuropsychiatry, Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, University of Okayama |
| P21-4 | An antidepressant-induced protocadherin Arcadlin/protocadherin-8 regulates dendritic spine density in hippocampal neurons  
Chiaki Takeuchi  Gr. Sch. Life Sciences, Ritsumeikan Univ. |
| P21-5 | The significance of complete distributional analysis of the 5-HT3A receptor  
Yoshihisa Koyama  Department of Neuroscience and Cell Biology, Osaka University Graduate School of Medicine, Osaka, JAPAN |
| P21-6 | Identification and functional characterization of novel 5-HTTLPR alleles in SLC6A4 gene  
Tempei Ikegame  Department of Neuropsychiatry, Graduate School of Medicine, The University of Tokyo |
### Poster 22
#### ADHD/ASD/Epilepsy 2

**Chair:** Akira Sano  
Department of Psychiatry, Kagoshima University Graduate School of Medical and Dental Sciences

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<td>Takahira Yamauchi</td>
<td>Department of Psychiatry, Nara Medical University School of Medicine, Kashihara, Japan</td>
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<td>Decision making under sunk costs in autism spectrum disorder</td>
<td>Junya Fujino</td>
<td>Medical Institute of Developmental Disabilities Research, Showa University, Tokyo, Japan / Department of Psychiatry, Graduate School of Medicine, Kyoto University, Kyoto, Japan</td>
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<td>Tomoyuki Kanamatsu</td>
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<td>Tomoe Komori</td>
<td>Fac. Pharm., Kanazawa Univ., Kanazawa, Japan</td>
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### Poster 23
#### Stress/PTSD

**Chair:** Manabu Fuchikami  
Department of Psychiatry, Hiroshima University Hospital

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<td>Inflammatory markers and their possible effects on cognitive function in women with posttraumatic stress disorder</td>
<td>Risa Imai</td>
<td>Department of Psychiatry and Cognitive-Behavioral Medicine, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan.</td>
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<td>P23-2</td>
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<td>Motoaki Araki</td>
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<td>Jun Omura</td>
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<td>Hiroshi Ueno</td>
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| P23-6 | Correlation between social defeat stress-induced prefrontal serotonergic abnormalities and anxiety-like behavior  
Ryota Araki  Laboratory of Functional Biomolecules and Chemical Pharmacology, Faculty of Pharmaceutical Sciences, Setsunan University |
| P23-7 | Microarray analysis of gene expression in the prefrontal cortex in social defeat stress  
Zhiqian Yu  Dept. Disaster Psychiatry. IRiDeS, Tohoku Univ. / ToMMo, Tohoku Univ. |
| P23-8 | Effect of EPA on PTSD like behaviors of an animal model for PTSD in rats using a shuttle box  
Kunio Shimizu  Division of Behavioral Sciences, National Defense Medical College Research Institute, Tokorozawa, Japan |