

May 1, 2018

## CURRICULUM VITAE of Kiyoto Kasai, M.D., Ph.D.

*Professor and Chair*

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**1. Research Interests:** Neuroimaging and early intervention for schizophrenia; adolescent neuroscience and mental health

### 2. Education:

- M.D., 1995, Faculty of Medicine, University of Tokyo (U-T)
- Ph.D., 2004, Graduate School of Medicine, U-T

### 3. Job History:

- 1995-1999; Clinical Resident, U-T Hospital & National Center of Neurology and Psychiatry
- 1999-2003; Instructor, Department of Neuropsychiatry, U-T
- 2000-2002; Visiting Instructor, Department of Psychiatry, Harvard Medical School, U.S.A.
- 2003-2008; Lecturer, Department of Neuropsychiatry, U-T
- 2008-present; Professor, Department of Neuropsychiatry, U-T

### 4. Service and honors

- Young Investigator's Award, Japan Neuroscience Society, 2008
- Editorial Board Member, *Lancet Psychiatry*

### 5. Selected Publications

(1) Kasai K, et al: Strengthening community mental health services in Japan. *Lancet Psychiatry* 4: 268-270, 2017. (Viewpoint)

(2) Kasai K, Fukuda M: Science of recovery in schizophrenia research: brain and psychological substrates of personalized value. *npj Schizophrenia* 3: 14, 2017. (editorial)

(3) Okano H, et al: Brain/MINDS: A Japanese national brain project for marmoset neuroscience. *Neuron* 92: 582-590, 2016. (Viewpoint)

(4) Okada N, et al: Abnormal asymmetries in subcortical brain volume in schizophrenia. *Mol Psychiatry* 21: 1460-1466, 2016.

(5) Yahata N, et al: A small number of abnormal brain connections predicts adult autism spectrum disorder. *Nat Commun* 7: 11254, 2016.

(6) Tada M, et al: Differential alterations of auditory gamma oscillatory responses between pre-onset

high-risk individuals and first-episode schizophrenia. *Cereb Cortex* 26: 1027-35, 2016.

(7) Ishii-Takahashi A, et al: Neuroimaging-aided prediction of the effect of methylphenidate in children with attention-deficit hyperactivity disorder: a randomized controlled trial. *Neuropsychopharmacology* 40: 2676-2685, 2015.

(8) Kasai K, et al: The future of real-world neuroscience: imaging techniques to assess active brains in social environments. *Neurosci Res* 90: 65-71, 2015. (review)

(9) Nagai T, et al: Mismatch negativity as a “translatable” brain marker of early intervention for psychosis: a review. *Front Psychiatry* 4: 1-10, 2013. (review)

(10) Kasai K: Toward an interdisciplinary science of adolescence: insights from schizophrenia research. *Neurosci Res* 75: 89-93, 2013. (review)

## 6. Full publication list (total 287 papers; h-index: 59)

### Peer-reviewed original articles international journals

270. Nakamura M, Takahashi T, Takayanagi Y, Sasabayashi D, Katagiri N, Sakuma A, Obara C, Koike S, Yamasue H, Furuichi A, Kido M, Nishikawa Y, Noguchi K, Matsumoto K, Mizuno M, Kasai K, Suzuki M: Surface morphology of the orbitofrontal cortex in individuals at risk of psychosis: a multicenter study. *Eur Arch Psychiatry Clin Neurosci*. 2018 Mar 23. doi: 10.1007/s00406-018-0890-6. [Epub ahead of print]

269. Tanaka SC et al., Preliminary evidence of altered neural response during intertemporal choice of losses in adult attention-deficit hyperactivity disorder. *Sci Rep*, in press.

268. Todokoro A, Tanaka SC, Kawakubo Y, Yahata N, Ishii-Takahashi A, Nishimura Y, Kano Y, Ohtake F, Kasai K: Deficient neural activity subserving decision-making during reward waiting time in intertemporal choice in adult ADHD. *Psychiatry Clin Neurosci*, in press.

267. Suga et al., Lack of correlation between phonetic magnetic mismatch field and plasma D-serine levels in humans. *Clin Neurophysiol*, in press.

266. Nishida et al., A randomized controlled trial of comprehensive early intervention care in patients with first-episode psychosis in Japan: 1.5-year outcomes from the J-CAP study. *J Psychiatr Res*, in press.

265. Kamiya et al., Diffusional kurtosis imaging and white matter microstructure modeling in a clinical study of major depressive disorder. *NMR Biomed*, in press.

264. Sakakibara E, Takizawa R, Kawakubo Y, Kuwabara H, Kono T, Hamada K, Okuhata S, Eguchi S, Ishii-Takahashi A, Kasai K: Genetic influences on prefrontal activation during a verbal fluency task in children: A twin study using near-infrared spectroscopy. *Brain Behav*, in press.

263. Nishioka et al., Identification of somatic mutations in monozygotic twins discordant for psychiatric disorders. *npj Schizophr*, in press

262. Yamasue H, Okada T, Munesue T, Kuroda M, Fujioka T, Uno Y, Matsumoto K, Kuwabara H, Mori D, Okamoto Y, Yoshimura Y, Kawakubo Y, Arioka Y, Kojima M, Yuhi T, Owada K, Yassin W, Kushima I, Benner S, Ogawa N, Eriguchi Y, Kawano N, Uemura Y, Yamamoto M, Kano Y, Kasai K, Higashida H, Ozaki N, Kosaka H: Effect of intranasal oxytocin on the core social symptoms of autism spectrum disorder: A randomized clinical trial. *Mol Psychiatry*, in press.

261. Sugawara H, Murata Y, Ikegame T, Sawamura R, Shimanaga S, Takeoka Y, Saito T, Ikeda M, Yoshikawa A, Nishimura F; Kawamura Y, Kakiuchi C, Sasaki T, Iwata N, Hashimoto M, Kasai K, Kato T, Bundo M, Iwamoto K: DNA methylation analyses of the candidate genes identified by a methylome-wide association study revealed common epigenetic alterations in schizophrenia and bipolar disorder. ***Psychiatry Clin Neurosci, in press.***
260. Murata Y, Bundo M, Sunaga F, Kasai K, Iwamoto K: DNA methylation profiling in a neuroblastoma cell line exposed to the antipsychotic perospirone. ***Pharmacopsychiatry, in press.***
259. Nishioka M, Bundo M, Ueda J, Fumiki K, Sato Y, Kuroki Y, Ishii T, Ukai W, Murayama S, Hashimoto E, Nagasaki M, Yasuda J, Kasai K, Kato T, Iwamoto K: Identification of somatic mutations in postmortem human brain by whole genome sequencing and their implications for psychiatric disorders. ***Psychiatry Clin Neurosci, in press.***
258. Koshiyama D, Kirihara K, Tada M, Nagai T, Fujioka M, Koike S, Suga M, Araki T, Kasai K: Association between mismatch negativity and global functioning is specific to duration deviance in early stages of psychosis. ***Schizophr Res*** 2017 Oct 3 [Epub ahead of print] doi: 10.1016/j.schres.2017.09.045.
257. Tamune H, Taniguchi G, Morita S, Kumakura Y, Kondo S, Kasai K: Emotional stimuli-provoked seizures potentially misdiagnosed as psychogenic non-epileptic attacks: A case of temporal lobe epilepsy with amygdala enlargement ***Epilepsy & Behavior Case Reports*** 9: 37-41, 2018.
256. Koshiyama D, Fukunaga M, Okada N, Yamashita F, Yamamori H, Yasuda Y, Fujimoto M, Ohi K, Fujino H, Watanabe Y, Kasai K, Hashimoto R: Role of subcortical structures on cognitive and social function in schizophrenia. ***Sci Rep*** 8: 1183, 2018. Jan 2018. 10.1038/s41598-017-18950-2.
255. Yoshikawa A, Nishimura F, Inai A, Eriguchi Y, Nishioka M, Takaya A, Tochigi M, Kawamura Y, Umekage T, Kato K, Sasaki T, Ohashi Y, Iwamoto K, Kasai K, Kakiuchi C: Mutations of the glycine cleavage system genes possibly affect the negative symptoms of schizophrenia through metabolomic profile changes. ***Psychiatry Clin Neurosci*** 72: 168-179, 2018. 2018 Mar; doi: 10.1111/pcn.12628.
254. Hashimoto N, Ito YM, Okada N, Yamamori H, Yasuda Y, Fujimoto M, Kudo N, Takemura A, Son S, Narita H, Yamamoto M, Tha KK, Katsuki A, Ohi K, Yamashita F, Koike S, Takahashi T, Nemoto K, Fukunaga M, Onitsuka T, Watanabe Y, Yamasue H, Suzuki M, Kasai K, Kusumi I, Hashimoto R: The effect of duration of illness and antipsychotics on subcortical volumes in schizophrenia: Analysis of 778 subjects. ***Neuroimage: Clin*** 17: 563-569, 2017. (Nov. 2017) doi: 10.1016/j.nicl.2017.11.004.
253. Otowa T, Shimada M, Miyagawa T, Umekage T, Kawamura Y, Bundo M, Iwamoto K, Ikegame T, Tochigi M, Kasai K, Kaiya H, Tani H, Okazaki Y, Tokunaga K, Sasaki T: An epigenome-wide methylation study of healthy individuals with or without depressive symptoms. ***J Hum Genet*** 63: 319-326, 2018. Mar; doi: 10.1038/s10038-017-0382-y.
252. Yoshikawa A, Nishimura F, Inai A, Eriguchi Y, Nishioka M, Takaya A, Tochigi M, Kawamura Y, Umekage T, Kato K, Sasaki T, Kasai K, Kakiuchi C: Novel rare variations in genes which regulate the developmental change in N-Methyl-D-Aspartate receptor in patients with schizophrenia ***Hum Genome Var*** 5, 17056, 2018. 2018 Feb; doi: 10.1038/hgv.2017.56.
251. Koshiyama D, Fukunaga M, Okada N, Yamashita F, Yamamori H, Yasuda Y, Fujimoto M, Ohi K, Fujino H, Watanabe Y, Kasai K, Hashimoto R: Subcortical association with memory performance in schizophrenia: a structural magnetic resonance imaging study. ***Transl Psychiatry*** 8: 20, 2018. Jan. 2018 doi: 10.1038/s41398-017-0069-3.
250. Koike S, Satomura Y, Kawasaki S, Nishimura Y, Kinoshita A, Sakurada H, Yamagishi M, Ichikawa E, Matsuoka J, Okada N, Takizawa R, Kasai K: Application of functional near infrared spectroscopy as supplementary examination for diagnosis of clinical stages of psychosis spectrum. *Psychiatry Clin*

Neurosci 71: 794-806, 2017. 2017 Dec; doi: 10.1111/pcn.12551.

249. Koshiyama D, Kirihara K, Tada M, Nagai T, Koike S, Suga M, Araki T, Kasai K: Duration and frequency mismatch negativity shows no progressive reduction in early stages of psychosis. **Schizophr Res** 190: 32-38, 2017. 2017 Dec; doi: 10.1016/j.schres.2017.03.015.

248. Murata Y, Bundo M, Ueda J, Kubota-Sakashita M, Kasai K, Kato T, Iwamoto K: DNA methylation and hydroxymethylation analyses of the active LINE-1 subfamilies in mice. **Sci Rep** 7: 13624, 2017. 2017 Oct 19; doi: 10.1038/s41598-017-14165-7.

247. Sasabayashi D, Takayanagi Y, Takahashi T, Koike S, Yamasue H, Katagiri N, Sakuma A, Obara C, Nakamura M, Furuichi A, Kido M, Nishikawa Y, Noguchi K, Matsumoto K, Mizuno M, Kasai K, Suzuki M: Increased Occipital gyrification and development of psychotic disorders in individuals with an at-risk mental state: a multicenter study. **Biol Psychiatry** 82: 737-745, 2017. 2017 Nov 15; doi: 10.1016/j.biopsych.2017.05.018.

246. Eriguchi Y, Kuwabara H, Inai A, Kawakubo Y, Nishimura F, Kakiuchi C, Tochigi M, Ohashi J, Aoki N, Kato K, Ishiura H, Mitsui J, Tsuji S, Doi K, Yoshimura J, Morishita S, Shimada T, Furukawa M, Umekage T, Sasaki T, Kasai K, Kano Y: Identification of candidate genes involved in the etiology of sporadic Tourette syndrome by exome sequencing. **Am J Med Genet B Neuropsychiatr Genet** 174: 712-723, 2017. 10.1002/ajmg.b.32559(Oct. 2017)

245. Kanehara A, Kotake R, Miyamoto Y, Kumakura Y, Morita K, Ishiura T, Shimizu K, Fujieda Y, Ando S, Kondo S, Kasai K: The Japanese version of the questionnaire about the process of recovery: development and validity and reliability testing. **BMC Psychiatry** 17: 360, 2017.

244. Kondo S, Kumakura Y, Kanehara A, Nagato D, Ueda T, Matsuoka T, Tao Y, Kasai K: Premature deaths among individuals with severe mental illness after discharge from long-term hospitalization in Japan: a naturalistic observation during a 24-year period. **BJPsych Open** 3: 193-195, 2017.

243. Higuchi Y, Sumiyoshi T, Seo T, Suga M, Takahashi T, Nishiyama S, Komori Y, Kasai K, Suzuki M: Associations between daily living skills, cognition, and real-world functioning across stages of schizophrenia; A study with the Schizophrenia Cognition Rating Scale Japanese version. **Schizophr Res Cogn** 7: 13-18, 2017. 2017 Feb 22; doi: 10.1016/j.scog.2017.01.001.

242. Nagai T, Kirihara K, Tada M, Koshiyama D, Koike S, Suga M, Araki T, Hashimoto K, Kasai K: Reduced mismatch negativity is associated with increased plasma level of glutamate in first-episode psychosis. **Sci Rep** 7(1):2258. [May 23, 2017; PMID: 28536477; doi: 10.1038/s41598-017-02267-1]

241. Ueda J, Murata Y, Bundo M, Oh-Nishi A, Kassai H, Ikegame T, Zhao Z, Jinde S, Aiba A, Suhara T, Kasai K, Kato T, Iwamoto K: Use of human methylation arrays for epigenome research in the common marmoset (*Callithrix jacchus*). **Neurosci Res** 120: 60-65, 2017. 2017 Jul; doi: 10.1016/j.neures.2017.02.005.

240. Watanabe T, Otowa T, Abe O, Kuwabara H, Aoki Y, Natsubori T, Takao H, Kakiuchi C, Kondo K, Ikeda M, Iwata N, Kasai K, Sasaki T, Yamasue H: Oxytocin receptor gene variations predict neural and behavioral response to oxytocin in autism. **Soc Cogn Affect Neurosci** 12: 496-506, 2017. 2017 Mar 1; doi: 10.1093/scan/nsw150.

239. Sawada K, Kanehara A, Sakakibara E, Eguchi S, Tada M, Satomura Y, Suga M, Koike S, Kasai K: Identifying neurocognitive markers for outcome prediction of global functioning in ultra-high-risk for psychosis and first episode psychosis. **Psychiatry Clin Neurosci** 71: 318-327, 2017. 2017 May; doi: 10.1111/pcn.12522.

238. Fujino H, Sumiyoshi C, Yasuda Y, Yamamori H, Fujimoto M, Fukunaga M, Miura K, Takebayashi Y, Okada N, Isomura S, Kawano N, Toyomaki A, Kuga H, Isobe M, Oya K, Okahisa Y, Takaki M, Hashimoto N, Kato M, Onitsuka T, Ueno T, Ohnuma T, Kasai K, Ozaki N, Sumiyoshi T, Imura O, Hashimoto R; for COCORO.

Estimated cognitive decline in patients with schizophrenia: A multicenter study. *Psychiatry Clin Neurosci* 71: 294-300, 2017. 2017 May; doi: 10.1111/pcn.12474.

237. Inoue T, Morita M, Wada A, Kasai K, Kondo S: A case of persistent delirium resolved promptly with suvorexant. *Prim Care Companion CNS Disord* 19: 16102026, 2017.

236. Shimada-Sugimoto M, Otowa T, Miyagawa T, Umekage T, Kawamura Y, Bundo M, Iwamoto K, Tochigi M, Kasai K, Kaiya H, Tani H, Okazaki Y, Tokunaga K, Sasaki T: Epigenome-wide association study of DNA methylation in panic disorder. *Clin Epigenetics* 9: 6, 2017. 2017 Jan 21; doi: 10.1186/s13148-016-0307-1.

235. Morita K, Miura K, Fujimoto M, Yamamori H, Yasuda Y, Iwase M, Kasai K, Hashimoto R: Eye movement as a biomarker of schizophrenia: using an integrated eye movement score. *Psychiatry Clin Neurosci* 71: 104-114, 2017. 2017 Feb; doi: 10.1111/pcn.12460.

234. Takano Y, Aoki Y, Yahata N, Kawakubo Y, Inoue H, Iwashiro N, Natsubori T, Koike S, Gono W, Sasaki H, Takao H, Kasai K, Yamasue H: Neural basis for inferring false beliefs and social emotions in others among individuals with schizophrenia and those at ultra-high risk for psychosis. *Psychiatry Res: Neuroimaging* 259: 34-41, 2017. 2017 Jan 30; doi: 10.1016/j.pscychresns.2016.11.003.

233. Kanehara A, Ando S, Araki T, Usami S, Kuwabara H, Kano Y, Kasai K: Trends in psychological distress and alcoholism after The Great East Japan Earthquake of 2011. *SSM - Population Health* 2: 807-812, 2016.

232. Miyashita M, Watanabe T, Ichikawa T, Toriumi K, Horiuchi Y, Kobori A, Kushima I, Hashimoto R, Fukumoto M, Koike S, Ujike H, Arinami T, Tatebayashi Y, Kasai K, Takeda M, Ozaki N, Okazaki Y, Yoshikawa T, Amano N, Washizuka S, Yamamoto H, Miyata T, Itokawa M, Yamamoto Y, Arai M: The regulation of soluble receptor for AGEs contributes to carbonyl stress in schizophrenia. *Biochem Biophys Res Commun* 479: 447-452, 2016.

231. Zhao Z1, Jinde S, Kakiuchi C, Kasai K: Extracellular elevation of adrenomedullin, a gene associated with schizophrenia, suppresses heat shock protein 1A/1B mRNA. *Neuroreport* 27: 1312-1316, 2016.

230. Nishimura Y, Kawakubo Y, Suga M, Hashimoto K, Takei Y, Takei K, Inoue H, Yumoto M, Takizawa R, Kasai K: Familial influences on mismatch negativity and its association with plasma glutamate level: A magnetoencephalographic study in twins. *Mol Neuropsychiatry* 2: 161-172, 2016.

229. Sakakibara E, Homae F, Kawasaki S, Nishimura Y, Takizawa R, Koike S, Kinoshita A, Sakurada H, Yamagishi M, Nishimura F, Yoshikawa A, Inai A, Nishioka M, Eriguchi Y, Matsuoka J, Satomura Y, Okada N, Kakiuchi C, Araki T, Kan C, Umeda M, Shimazu A, Uga M, Dan I, Hashimoto H, Kawakami N, Kasai K: Detection of resting state functional connectivity using partial correlation analysis: A study using multi-distance and whole-head probe near-infrared spectroscopy. *Neuroimage* 142: 590-601, 2016.

228. Kinoshita A, Takizawa R, Yahata N, Homae F, Hashimoto R, Kawasaki S, Nishimura Y, Koike S, Kasai K: The development of a neurofeedback protocol targeting the frontal pole using near-infrared spectroscopy. *Psychiatry Clin Neurosci* 70: 507-516, 2016.

227. Yamasaki S, Ando S, Koike S, Usami S, Endo K, French P, Sasaki T, Furukawa TA, Hasegawa-Hiraiwa M, Kasai K, Nishida A: Dissociation mediates the relationship between peer victimization and hallucinatory experiences among early adolescents. *Schizophr Res Cogn* 4: 18-23, 2016.

226. Yamasaki M, Miyagawa T, Toyoda H, Khor SS, Liu X, Kuwabara H, Kano Y, Shimada T, Sugiyama T, Nishida H, Sugaya N, Tochigi M, Otowa T, Okazaki Y, Kaiya H, Kawamura Y, Miyashita A, Kuwano R, Kasai K, Tani H, Sasaki T, Honda Y, Honda M, Tokunaga K: Evaluation of polygenic risks for narcolepsy and essential hypersomnia. *J Hum Genet* 61: 873-878, 2016.

225. Yahata N, Morimoto J, Hashimoto R, Lisi G, Shibata K, Kawakubo Y, Kuwabara H, Kuroda M, Yamada T, Fukuda M, Imamizu H, Nájñez J, Takahashi H, Okamoto Y, Kasai K, Kato N, Sasaki Y, Watanabe T, Kawato M: A small number of abnormal brain connections predicts adult autism spectrum disorder. **Nat Commun** 7: 11254, 2016.
224. Rogers MA, Yamasue H, Kasai K: Antidepressant medication may moderate the effect of depression duration on hippocampus volume. **J Psychophysiol** 30: 1-8, 2016.
223. Fujikawa S, Ando S, Shimodera S, Koike S, Usami S, Toriyama R, Kanata S, Sasaki T, Kasai K, Okazaki Y, Nishida A: The association of current violence from adult family members with adolescent bullying involvement and suicidal feelings. **PLoS ONE**: 11: e0163707, 2016.
222. Iwashiro N, Koike S, Satomura Y, Suga M, Nagai T, Natsubori T, Tada M, Gonoï W, Takizwa R, Kunimatsu A, Yamasue H, Kasai K: Association between impaired brain activity and volume at the sub-region of Broca's area in ultra-high risk and first-episode schizophrenia: a multi-modal neuroimaging study. **Schizophr Res** 172: 9-15, 2016.
221. Kanata S, Koike S, Ando S, Nishida A, Usami S, Yamasaki S, Morimoto Y, Toriyama R, Fujikawa S, Sugimoto N, Sasaki T, Furukawa TA, Hiraiwa-Hasegawa M, Kasai K: Enuresis and hyperactivity-inattention in early adolescence: Findings from a population-based survey in Tokyo (Tokyo Early Adolescence Survey). **PLoS ONE** 11: e0158786, 2016.
220. Hirata-Mogi S, Koike S, Toriyama R, Matsuoka K, Kim Y, Kasai K: Reliability of a paper-and-pencil version of the Japanese Adult Reading Test short version (JART25). **Psychiatry Clin Neurosci** 70: 362, 2016.
219. Aoki A, Aoki Y, Goulden R, Kasai K, Thornicroft G, Henderson C: Change in newspaper coverage of schizophrenia in Japan over 20-year period. **Schizophr Res** 175: 193-197, 2016.
218. Suga M, Nishimura Y, Kawakubo Y, Yumoto M, Kasai K: MEG recording of auditory mismatch negativity in response to duration and frequency deviants in a single session in patients with schizophrenia. **Psychiatry Clin Neurosci** 70: 295-302, 2016.
217. Shimada-Sugimoto M, Otowa T, Miyagawa T, Khor SS, Omae Y, Toyo-oka L, Sugaya N, Kawamura Y, Umekage T, Miyashita A, Kuwano R, Kaiya H, Kasai K, Taniï H, Okazaki Y, Tokunaga K, Sasaki T: Polymorphisms in the TMEM132D region are associated with panic disorder in HLA-DRB1\*13:02-negative individuals of a Japanese population. **Hum Genome Var** 3: 16001, 2016.
216. Araki T, Kirihara K, Koshiyama D, Nagai T, Tada M, Fukuda M, Kasai K: Intact neural activity during a Go/No-go task is associated with high global functioning in schizophrenia. **Psychiatry Clin Neurosci** 70: 278-285, 2016.
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214. Okada N, Fukunaga M, Yamashita F, Koshiyama D, Yamamori H, Ohi K, Yasuda Y, Fujimoto M, Watanabe Y, Yahata N, Nemoto K, Hibar DP, van Erp TG, Fujino H, Isobe M, Isomura S, Natsubori T, Narita H, Hashimoto N, Miyata J, Koike S, Takahashi T, Yamasue H, Matsuo K, Onitsuka T, Iidaka T, Kawasaki Y, Yoshimura R, Watanabe Y, Suzuki M, Turner JA, Takeda M, Thompson PM, Ozaki N, Kasai K, Hashimoto R: Abnormal asymmetries in subcortical brain volume in schizophrenia. **Mol Psychiatry** 21: 1460-1466, 2016.

213. Otowa T, Kawamura Y, Tsutsumi A, Kawakami N, Kan C, Shimada T, Umekage T, Kasai K, Tokunaga K, Sasaki T: The first pilot genome-wide gene-environment study of depression in the Japanese population. **PLoS ONE** 11(8): e0160823, 2016.

212. Liu X, Shimada T, Otowa T, Wu YY, Kawamura Y, Tochigi M, Iwata Y, Umekage T, Toyota T, Maekawa M, Iwayama Y, Suzuki K, Kakiuchi C, Kuwabara H, Kano Y, Nishida H, Sugiyama T, Kato N, Chen CH, Mori N, Yamada K, Yoshikawa T, Kasai K, Tokunaga K, Sasaki T, Gau SS: Genome-wide association study of autism spectrum disorder in the East Asian populations. **Autism Res** 9: 340-349, 2016.

211. Okada N, Takahashi K, Nishimura Y, Koike S, Ishii-Takahashi A, Sakakibara E, Satomura Y, Kinoshita A, Takizawa R, Kawasaki S, Nakakita M, Ohtani T, Okazaki Y, Kasai K: Characterizing prefrontal cortical activity during inhibition task in methamphetamine-associated psychosis versus schizophrenia: A multi-channel near-infrared spectroscopy study. **Addict Biol.** 21: 489-503, 2016

210. Tada M, Nagai T, Kirihara K, Koike S, Suga M, Araki T, Kobayashi T, Kasai K: Differential alterations of auditory gamma oscillatory responses between pre-onset high-risk individuals and first-episode schizophrenia. **Cereb Cortex** 26: 1027-35, 2016.

209. Koike S, Satomura Y, Kawasaki S, Nishimura Y, Takano Y, Iwashiro N, Kinoshita A, Nagai T, Natsubori T, Tada M, Ichikawa E, Takizawa R, Kasai K: Association between rostral prefrontal cortical activity and functional outcome in first-episode psychosis: a longitudinal functional near-infrared spectroscopy study. **Schizophr Res** 170: 304-310, 2016.

208. Inai A, Tochigi M, Kuwabara H, Nishimura F, Kato K, Eriguchi Y, Shimada T, Furukawa M, Kawamura Y, Sasaki T, Kakiuchi C, Kasai K, Kano Y: Analysis of SLITRK1 in Japanese patients with Tourette syndrome using a next generation sequencer. **Psychiatr Genet** 25: 256-258, 2015.

207. Ishii-Takahashi A, Takizawa R, Nishimura Y, Kawakubo Y, Hamada K, Okuhata S, Kawasaki S, Kuwabara H, Shimada T, Todokoro A, Igarashi T, Watanabe KI, Yamasue H, Kato N, Kasai K, Kano Y: Neuroimaging-aided prediction of the effect of methylphenidate in children with attention-deficit hyperactivity disorder: a randomized controlled trial. **Neuropsychopharmacology** 40: 2676-2685, 2015. (DOI : 10.1038/npp.2015.128.) PMID : 25936640

206. Kanehara A, Yamana H, Yasunaga H, Matsui H, Ando S, Okamura T, Kumakura Y, Fushimi K, Kasai K: Psychiatric intervention and repeated admission to emergency centres due to drug overdose. **Br J Psychiatry Open** 1: 158-163, 2015. 10.1192/bjpo.bp.115.002204

205. Nishimura Y, Takahashi K, Ohtani T, Ikeda- Sugita R, Okada N, Kasai K, Okazaki Y: Social function and frontopolar activation during a cognitive task in patients with bipolar disorder. **Neuropsychobiology** 72: 81-90, 2015.

204. Watanabe T, Kuroda M, Kuwabara H, Aoki Y, Iwashiro N, Tatsunobu N, Takao H, Nippashi Y, Kawakubo Y, Kunimatsu A, Kasai K, Yamasue H. Clinical and neural effects of six-week administration of oxytocin on core symptoms of autism. **Brain** 138: 3400-3412, 2015.

203. Gong Q, Dazzan P, Scarpazza C, Kasai K, Hu X, Marques TR, Iwashiro N, Huang X, Murray RM, Koike S, David AS, Yamasue H, Lui S, Mechelli A: A neuroanatomical signature for schizophrenia across different ethnic groups. *Schizophr Bull.* 41(6):1266-75. 2015 Nov. (DOI: 10.1093/schbul/sbv109.) PMID:26264820

202. Imamura K, Kawakami N, Furukawa TA, Matsuyama Y, Shimazu A, Umanodan R, Kawakami S, Kasai K: Effects of an internet-based cognitive behavioral therapy intervention on improving work engagement and other work-related outcomes: an analysis of secondary outcomes of a randomized controlled trial. **J Occup Environ Med.** 57(5):578-84. 2015 May. (DOI :

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