

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

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. List of Recent Selected Publications

- (1) Okada N et al: Abnormal asymmetries in subcortical brain volume in schizophrenia. **Mol Psychiatry** 2016 Jan 19. [Epub ahead of print]
- (2) Yahata N et al: A small number of abnormal brain connections predicts adult autism spectrum disorder. **Nat Commun**, in press.
- (3) 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.
- (4) 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.
- (5) Okano H, Miyawaki A, Kasai K: Brain/MINDS: brain-mapping project in Japan. **Phil Trans R Soc B** 370: 20140310, 2015. (review)
- (6) 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)
- (7) 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)

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

6. Full publication list (total 229 papers; h-index: 47)

Peer-reviewed original articles international journals

217. Araki et al.: Intact neural activity during a Go/No-go task is associated with high global functioning in schizophrenia. *Psychiatry Clin Neurosci*, in press..

216. Yahata N, Morimoto J, Hashimoto R, Giuseppe Lisi, Kazuhisa Shibata, Yuki Kawakubo, Hitoshi Kuwabara, Miho Kuroda, Takashi Yamada, Fukuda Megumi, Hiroshi Imamizu, José Nájuez, Hidehiko Takahashi, 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*, in press.

215. 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, Tanii 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. *Human Genome Variation*, in press

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*. 2016 Jan 19. [Epub ahead of print]

213. Rogers MA, Yamasue H, Kasai K: Antidepressant medication may moderate the effect of depression duration on hippocampus volume. *J Psychophysiol*, in press

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** 2015 Aug 28. doi: 10.1002/aur.1536. [Epub ahead of print]

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 : 10.1097/JOM.0000000000000411.) PMID : 25749132
201. Imamura K, Kawakami N, Furukawa T, Matsuyama Y, Shimazu A, Umanodan R, Kawakami S, Kasai K: Does Internet-based cognitive behavioral therapy (iCBT) prevent major depressive episode for workers? A 12-month follow-up of a randomized controlled trial. **Psychol Med.** 45(9):1907-17, 2015 Jul. (DOI : 10.1017/S0033291714003006) PMID : 25562115
200. Kinoshita A, Takizawa R, Koike S, Satomura Y, Kawasaki S, Kawakubo Y, Marumo K, Tochigi M, Sasaki T, Nishimura Y, Kasai K: Effect of metabotropic glutamate receptor-3 variants on prefrontal brain activity in schizophrenia: an imaging genetics study using multi-channel near-infrared spectroscopy.

Prog Neuropsychopharmacol Biol Psychiatry 62: 14-21, 2015 Oct. (DOI: 10.1016/j.pnpbp.2015.04.006.) PMID: 25914064

199. Imamura K, Kawakami N, Furukawa TA, Matsuyama Y, Shimazu A, Kasai K: Effects of an internet-based cognitive behavioural therapy intervention on preventing major depressive episodes among workers: a protocol for a randomized controlled trial. **BMJ Open** 5(5):e007590, 2015 May. (DOI: 10.1136/bmjopen-2015-007590.) PMID: 25968004

198. Kawasaki S, Nishimura Y, Takizawa R, Koike S, Kinoshita A, Satomura Y, Sakakibara E, Sakurada H, Yamagishi M, Nishimura F, Yoshikawa A, Inai A, Nishioka M, Eriguchi Y, Kakiuchi C, Araki T, Kan C, Umeda M, Shimazu A, Hashimoto H, Kawakami N, Kasai K: Using social epidemiology and neuroscience to explore the relationship between job stress and fronto-temporal cortex activity among workers. **Soc Neurosci** 10(3): 230-242, 2015. Jun. 12. PMID: 25580832

197. Shimada-Sugimoto M, Otowa T, Miyagawa T, Khor SS, Kashiwase K, Sugaya N, Kawamura Y, Umekage T, Kojima H, Saji H, Miyashita A, Kuwano R, Kaiya H, Kasai K, Tanii H, Tokunaga K, Sasaki T: Immune-related pathways including HLA-DRB1*13:02 are associated with panic disorder. **Brain Behav Immun** 46: 96-103, 2015. May. (DOI : 10.1016/j.bbi.2015.01.002.) PMID : 25582808

196. Aoki Y, Watanabe T, Abe O, Kuwabara H, Yahata N, Takano Y, Iwashiro N, Natsubori T, Takao H, Kawakubo Y, Kasai K, Yamasue H: Oxytocin's neurochemical effects in the medial prefrontal cortex underlie recovery of task-specific brain activity in autism: a randomized controlled trial. **Mol Psychiatry** 20(4): 447-453, 2015. Apr. (DOI: 10.1038/mp.2014.74.) PMID: 25070538

195. Eguchi S, Koike S, Suga M, Takizawa R, Kasai K: Psychological symptom and social functioning subscales of the modified Global Assessment of Functioning Scale: reliability and validity of the Japanese version. **Psychiatry and Clin Neurosci**. 69(2):126-127. 2015 Feb. (DOI: 10.1111/pcn12250.) PMID : 25359328

194. Funane T, Sato H, Yahata N, Takizawa R, Nishimura Y, Kinoshita A, Katura T, Atsumori H, Fukuda M, Kasai K, Koizumi H, Kiguchi M: Concurrent fNIRS-fMRI measurement to validate a method for separating deep and shallow fNIRS signals by using multidistance optodes. **Neurophoton**. 2(1), 015003, 2015. Feb. (DOI : 10.1117/1.NPh.2.1.015003) PMID :

193. Ikeda M, Yoshimura R, Hashimoto R, Kondo K, Saito T, Shimasaki A, Ohi K, Tochigi M, Kawamura Y, Nishida N, Miyagawa T, Sasaki T, Tokunaga K, Kasai K, Takeda M, Nakamura J, Ozaki N, Iwata N: Genetic overlap between antipsychotic response and susceptibility to schizophrenia. **J Clin psychopharmacol**. 35(1): 85-88, 2015. Feb (DOI: 10.1097/JCP.0000000000000268.) PMID : 25502484

192. Nishimura Y, Takahashi K, Ohtani T, Ikeda-Sugita R, Kasai K, Okazaki Y: Dorsolateral prefrontal hemodynamic responses during a verbal fluency task in hypomanic bipolar disorder. **Bipolar Disord**. 17(2): 172-183, 2015. Feb. (DOI : 10.1111/bdi.12252.) PMID : 25187262

191. Sugawara H, Bundo M, Asai T, Sunaga F, Ueda J, Ishigooka J, Kasai K, Kato T, Iwamoto K: Effects of quetiapine on DNA methylation in neuroblastoma cells. **Prog Neuropsychopharmacol Biol Psychiatry**. 56: 117-121, 2015 Jan. (DOI : 10.1016/j.pnpbp.2014.08.010) PMID : 25194461

190. Chou PH, Koike S, Nishimura Y, Satomura Y, Kinoshita A, Takizawa R, Kasai K: Similar age-related decline in cortical activity over frontotemporal regions in schizophrenia: a multi-channel near-infrared spectroscopy study. **Schizophr Bull.** 41(1): 268-279, 2015. Jan. (DOI : 10.1093/schbul/sbu086.) PMID : 24948388

189. Aoki Y, Yahata N, Watanabe T, Takano Y, Kawakubo Y, Kuwabara H, Iwashiro N, Natsubori T, Inoue H, Suga M, Takao H, Sasaki H, Gono W, Kunimatsu A, Kasai K, Yamasue H: Oxytocin improves behavioural and neural deficits in inferring others' social emotions in autism. **Brain.** 137(11): 3073-3086, 2014. Nov. (DOI : 10.1093/brain/awu231) PMID : 25149412

188. Hashimoto R, Ikeda M, Yamashita F, Ohi K, Yamamori H, Yasuda Y, Fujimoto M, Fukunaga M, Nemoto K, Takahashi T, Tochigi M, Onitsuka T, Yamasue H, Matsuo K, Iidaka T, Iwata N, Suzuki M, Takeda M, Kasai K, Ozaki N: Common variants at 1q36 are associated with superior frontal gyrus volume. **Transl Psychiatry.** 4: e472, 2014. Oct.

187. Ando S, Yasugi D, Matsumoto T, Kanata S, Kasai K: Serious outcomes associated with overdose of medicines containing barbiturates for treatment of insomnia. **Psychiatry Clin Neurosci.** 68(9): 721, 2014. Sep. (DOI : 10.1111/pcn.12198) PMID : 24773618

186. Natsubori T, Hashimoto R, Yahata N, Inoue H, Takano Y, Iwashiro N, Koike S, Gono W, Sasaki H, Takao H, Abe O, Kasai K, Yamasue H: An fMRI study of visual lexical decision in patients with schizophrenia and clinical high-risk individuals. **Schizophr Res.** 157(1-3): 218-224, 2014 Aug. (DOI : 10.1016/j.schres.2014.05.027.) PMID : 24893907

185. Imamura K, Kawakami N, Furukawa T, Matsuyama Y, Shimazu A, Umanodan R, Kasakami S, Kasai K: Effects of an internet-based cognitive behavioral therapy (iCBT) program in manga format on improving subthreshold depressive symptoms among healthy workers: a randomized controlled trial. **PLOS ONE.** 9(5):e97167, 2014 May 20. (DOI : 10.1371/journal.pone.0097167.) PMID : 24844530

184. Murata Y, Nishioka M, Bundo M, Sunaga F, Kasai K, Iwamoto K: Comprehensive DNA methylation analysis of human neuroblastoma cells treated with blonanserin. **Neurosci Lett.** 563:123-128, 2014 Mar. (DOI : 10.1016/j.neulet.2014.01.038.) PMID: 24491429

183. Chou P-H, Koike S, Nishimura Y, Kawasaki S, Satomura Y, Kinoshita A, Takizawa R, Kasai K: Distinct effects of duration of untreated psychosis on brain cortical activities in different treatment phases of schizophrenia: a multi-channel near-infrared spectroscopy study. **Prog Neuropsychopharmacol Biol Psychiatry.** 49: 63-69, 2014. Mar. (DOI : 10.1016/j.pnpbp.2013.11.009.) PMID : 24275075

182. Koike S, Bundo M, Iwamoto K, Suga M, Kuwabara H, Ohashi Y, Shinoda K, Takano Y, Iwashiro N, Satomura Y, Nagai T, Natsubori T, Tada M, Yamasue H, Kasai K: A snapshot of plasma metabolites in first-episode schizophrenia: A capillary electrophoresis time-of-flight mass spectrometry study. **Transl Psychiatry.** 4: e379, 2014. Apr. 8. (DOI : 10.1038/tp.2014.19) PMID : 24713860

181. Kuwabara H, Araki T, Yamasaki S, Ando S, Kano Y, Kasai K: Regional differences in post-traumatic stress symptoms among children after the 2011 tsunami in Higashi-Matsuhima, Japan.

Brain Dev. 37(1): 130-136, 2014. Feb. 26. (DOI : 10.1016/j.braindev.2014.02.003.) PMID : 24581732

180. Miyashita M, Arai M, Yuzawa H, Niizato K, Oshima K, Kushima I, Hashimoto R, Fukumoto M, Koike S, Toyota T, Ujike H, Kasai K, Takeda M, Ozaki N, Okazaki Y, Yoshikawa T, Amano N, Miyata T, Itokawa M: Replication of enhanced carbonyl stress in a subpopulation of schizophrenia. **Psychiatry Clin Neurosci.** 68(1): 83-84. 2014. Jan. (DOI : 10.1111/pcn.12081.) PMID : 24393354

179. Bundo M, Toyoshima M, Okada Y, Akamatsu W, Ueda J, Nemoto-Miyauchi T, Sunaga F, Toritsuka M, Ikawa D, Kakita A, Kato M, Kasai K, Kishimoto T, Nawa H, Okano H, Yoshikawa T, Kato T, Iwamoto K: Increased I1 retrotransposition in the neuronal genome in schizophrenia. **Neuron.** 81(2): 306-313, 2014. Jan. 22. (DOI : 10.1016/j.neuron.2013.10.053.) PMID : 24389010

178. Satomura Y, Takizawa R, Koike S, Kawasaki S, Kinoshita A, Sakakibara E, Nishimura Y, Kasai K: Potential biomarker of subjective quality of life: prefrontal activation measurement by near-infrared spectroscopy. **Soc Neurosci.** 9(1): 63-73, 2014. Feb. (DOI : 10.1080/17470919.2013.861359.) PMID : 24294926

177. Nishimura Y, Takizawa R, Koike S, Kinoshita A, Satomura Y, Kawasaki S, Yamasue H, Tochigi M, Kakiuchi C, Sasaki T, Iwayama Y, Yamada K, Yoshikawa T, Kasai K: Association of decreased prefrontal hemodynamic response during a verbal fluency task with EGR3 gene polymorphism in patients with schizophrenia and in healthy individuals. **NeuroImage.** 85 Pt 1: 527-534, 2014. Jan. (DOI : 10.1016/j.neuroimage.2013.08.021.) PMID : 23962955

176. Sakakibara E, Takizawa R, Nishimura Y, Kawasaki S, Satomura Y, Kinoshita A, Koike S, Marumo K, Kinou M, Tochigi M, Nishida N, Tokunaga K, Eguchi S, Yamasaki S, Natsubori T, Iwashiro N, Inoue H, Takano Y, Takei K, Suga M, Yamasue H, Matsubayashi J, Kohata K, Shimojo C, Okuhata S, Kono T, Kuwabara H, Ishii-Takahashi A, Kawakubo Y, Kasai K: Genetic influences on frontal activation during a verbal fluency task: a twin study based on multichannel near-infrared spectroscopy. **Neuroimage.** 85 Pt 1:508-517, 2014. Jan. 15. (DOI : 10.1016/j.neuroimage.2013.03.052.) PMID : 23558100

175. Saito Y, Suga M, Tochigi M, Abe O, Yahata N, Kawakubo Y, Liu X, Kawamura Y, Sasaki T, Kasai K, Yamasue H: Neural correlate of autistic-like traits and a common allele in the oxygen receptor gene. **Soc Cogn Affect Neurosci.** 9(10):1443-50, 2014 Oct. (DOI : 10.1093/scan/nst136.) PMID : 23946005

174. Natsubori T, Inoue H, Abe O, Takano Y, Iwashiro N, Aoki Y, Koike S, Yahata N, Katsura M, Gonoï W, Sasaki H, Takao H, Kasai K, Yamasue H: Reduced frontal glutamate+glutamine and N-acetylaspartate levels in patients with chronic schizophrenia but not in those at clinical-high risk for psychosis or with first-episode schizophrenia. **Schizophr Bull.** 40(5): 1128-1129, 2014 Sep. (DOI: 10.1093/schbul/sbt124.) PMID : 24023251

173. Takizawa R, Fukuda M, Kawasaki S, Kasai K, Mimura M, Pu S, Noda T, Niwa SI, Okazaki Y: Neuroimaging-aided differential diagnosis of the depressive state. **Neuroimage.** 85:498-507, 2014 Jan. (DOI : 10.1016/j.neuroimage.2013.05.126.) PMID : 23764293

172. Marumo K, Takizawa R, Kinou M, Kawasaki S, Kawakubo Y, Fukuda M, Kasai K: Functional abnormalities in the left ventrolateral prefrontal cortex during a semantic fluency task, and their association with thought disorder in patients with schizophrenia. **Neuroimage**. 85:518-526, 2014 Jan. 15. (DOI : 10.1016/j.neuroimage.2013.04.050.) PMID : 23624170
171. Watanabe T, Yahata N, Kawakubo Y, Inoue H, Takano Y, Iwashiro N, Natsubori T, Takao H, Sasaki H, Gono W, Murakami M, Katsura M, Kunimatsu A, Abe O, Kasai K, Yamasue H: Network structure underlying resolution of conflicting nonverbal and verbal social information. **Soc Cogn Affect Neurosci**. 9(6):767-75. 2014 Jan. (DOI : 10.1093/scan/nst046.) PMID : 23552078
170. Takizawa R, Nishimura Y, Yamasue H, Kasai K: Anxiety and performance: the disparate roles of prefrontal subregions under maintained psychological stress. **Cereb Cortex**. 24(7):1858-66, 2014 Jul. (DOI : 10.1093/cercor/bht036.) PMID : 23425891
169. Watanabe T, Abe O, Kuwabara H, Yahata N, Takano Y, Iwashiro N, Natsubori T, Aoki Y, Takao H, Kawakubo Y, Kamio Y, Kato N, Miyashita Y, Kasai K, Yamasue H: Mitigation of sociocommunicational deficits of autism through oxytocin-induced recovery of medial prefrontal activity: a randomized trial. **JAMA Psychiatry**. 71(2):166-175, 2014 Feb. (DOI : 10.1001/jamapsychiatry.2013.3181.) PMID : 24352377
168. Iwashiro N, Yahata N, Kawamuro Y, Kasai K, Yamasue H: Aberrant interference of auditory negative words on attention in patients with schizophrenia. **PLoS ONE**. 8(13): e83201, 2013, Dec. 23. (DOI : 10.1371/journal.pone.0083201.) PMID : 24376662
167. Ikegame T, Bundo M, Sunaga E, Asai T, Nishimura F, Yoshikawa A, Kawamura Y, Hibino H, Tochigi M, Kakiuchi C, Sasaki T, Kato T, Kasai K, Iwamoto K: DNA methylation analysis of BDNF gene promoters in peripheral blood cells of schizophrenia patients. **Neurosci Res**. 77(4): 208-214, 2013 Dec. (DOI : 10.1016/j.neures.2013.08.004.) PMID : 23973796
166. Ishii-Takahashi A, Takizawa R, Nishimura Y, Kawakubo Y, Kuwabara H, Matsubayashi J, Hamada K, Okuhata S, Yahata N, Igarashi T, Kawasaki S, Yamasue H, Kato N, Kasai K, Kano Y: Prefrontal activation during inhibitory control measured by near-infrared spectroscopy for differentiating between autism spectrum disorders and attention deficit hyperactivity disorder in adults. **Neuroimage Clin**. 4:53-63. 2013 Oct. (DOI : 10.1016/j.nicl.2013.10.002.) PMID : 24298446
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164. Kinou M, Takizawa R, Marumo K, Kawasaki S, Kawakubo Y, Fukuda M, Kasai K: Differential spatiotemporal characteristics of the prefrontal hemodynamic response and their association with functional impairment in schizophrenia and major depression. **Schizophr Res**. 150(2-3): 459-467. 2013 Sep. 7. (DOI : 10.1016/j.schres.2013.08.026.) PMID : 24016725

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162. Nagai T, Tada M, Kirihara K, Yahata N, Hashimoto R, Araki T, Kasai K: Auditory mismatch and P3a in response to duration and frequency changes in the early stages of psychosis. **Schizophr Res.** 150(2-3):547-554, 2013 Nov. (DOI : 10.1016/j.schres.2013.08.005.) PMID : 24012461
161. Kuwabara H, Yamasue H, Koike S, Inoue H, Kawakubo Y, Kuroda M, Takano Y, Natsubori T, Aoki Y, Kano Y, Kasai K: Altered metabolites in the plasma of autism disorder: a capillary electrophoresis time-of-flight mass spectroscopy study. **PLoS ONE.** 8(9):e73814, 2013 Sep. (DOI : 10.1371/journal.pone.0073814.) PMID : 24058493
160. Ando S, Matsumoto T, Kanata S, Hojo A, Yasugi D, Eto N, Kawanishi C, Asukai N, Kasai K: One-year follow up after admission to an emergency department for drug overdose in Japan. **Psychiatry Clin Neurosci** 67(6):441-450, 2013 Sep. (DOI : 10.1111/pcn.12079.) PMID : 23941198
159. Sato H, Yahata N, Funane T, Takizawa R, Katura T, Atsumori H, Nishimura Y, Kinoshita A, Kiguchi M, Koizumi H, Fukuda M, Kasai K: A NIRS-fMRI investigation of prefrontal cortex activity during a working memory task. **Neuroimage** 83: 158-173, 2013 Dec. (DOI : 10.1016/j.jad.2013.06.047.) PMID : 23792984
158. Ando S, Kasai K, Matamura M, Hasegawa Y, Hirakawa H, Asukai N: Psychosocial factors associated with suicidal ideation in clinical patients with depression. **J Affect Disord** 151(2): 561-565, 2013 Nov. (DOI : 10.1016/j.jad.2013.06.047.) PMID : 23876193
157. Asai T*, Bundo M*, Sugawara H, Sunaga F, Ueda J, Tanaka G, Ishigooka J, Kasai K, Kato T, Iwamoto K: Effect of mood stabilizers on DNA methylation in human neuroblastoma cells. **Int J Neuropsychopharmacol** 16(10): 2285-2294, 2013 Nov. (*equal contribution) (DOI : 10.1017/S1461145713000710.) PMID : 23931339
156. Koike S, Takizawa R, Nishimura Y, Kinou M, Kawasaki S, Kasai K: Reduced but broader prefrontal activity in patients with schizophrenia during n-back working memory tasks: a multi-channel near-infrared spectroscopy study. **J Psychiatr Res** 47(9):1240-1246, 2013 Sep. (DOI : 10.1016/j.jpsychires.2013.05.009.) PMID : 23743135
155. Aoki Y, Oriabe L, Takayanagi Y, Yahata N, Mozue Y, Sudo Y, Ishii T, Itokawa M, Suzuki M, Kurachi M, Okazaki Y, Kasai K, Yamasue H: Volume reductions in frontopolar and left perisylvian cortices in methamphetamine induced psychosis. **Schizophr Res** 147(2-3): 355-361, 2013 Jul. (DOI : 10.1016/j.schres.2013.04.029.) PMID : 23688384
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