Curriculum Vitae

Atsushi Takata, M.D., Ph.D.

Team Leader (Laboratory Head)

Laboratory for Molecular Pathology of Psychiatric Disorders

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Education

2004	M.D., Faculty of Medicine, Kyushu University
2011	Ph.D., Graduate School of Medical Sciences, Kyushu University, Neuropsychiatry

Academic Appointments

2020-present	Team Leader, Laboratory for Molecular Pathology of Psychiatric Disorders, RIKEN Center for Brain Science, Saitama, Japan
2020-present	Visiting Associate Professor, Department of Human Genetics, Yokohama City University Graduate School of Medicine, Kanagawa, Japan
2018-2020	Senior Visiting Scientist, Laboratory for Molecular Dynamics of Mental Disorders, RIKEN Center for Brain Science, Saitama, Japan
2016-2020	Assistant Professor (Lecturer), Department of Human Genetics, Yokohama City University Graduate School of Medicine, Kanagawa, Japan
2016-2018	Senior Visiting Scientist, Laboratory for Molecular Dynamics of Mental Disorders y, RIKEN Brain Science Institute, Saitama, Japan
2016	Visiting Associate Professor, Department of Psychiatry, Graduate School of Biomedical Sciences, Hiroshima University, Hiroshima, Japan
2015-2016	Tenure-track Research Scientist, Laboratory for Molecular Dynamics of Mental

Disorders, RIKEN Brain Science Institute, Saitama, Japan

2013-2015 Postdoctoral Fellow (JSPS Overseas Research Fellow), Department of Psychiatry, Columbia University Medical Center, USA

2011-2012 Visiting Lecturer, Department of Psychiatry, Fujita Health University School of Medicine, Aichi, Japan

2011-2015 Visiting Scientist, Laboratory for Molecular Psychiatry, RIKEN Brain Science Institute, Saitama, Japan

2011-2015 Visiting Scientist, Laboratory for Molecular Dynamics of Mental Disorders, RIKEN Brain Science Institute, Saitama, Japan

Hospital Appointments

2015-present Clinical Psychiatrist, Japan Depression Center Rokubancho Mental Clinic, Tokyo, Japan

2011-2013 Clinical Psychiatrist, Yowa Hospital, Tokyo, Japan

2006-2007 Senior Resident in Psychiatry, Dazaifu Hospital Psychiatric Center, Fukuoka, Japan

2005-2006 Junior Resident, Kyushu University Hospital, Fukuoka, Japan

2004-2005 Junior Resident, National Hospital Organization Kyushu Medical Center, Fukuoka, Japan

Board Certification

2012 Designated Psychiatrist by Japanese Ministry of Health, Labour and Welfare

Professional Organizations and Societies

2006-present Japanese Society of Psychiatry and Neurology

2010-present Japanese Society of Biological Psychiatry

Awards

2013 Academic Prize, Japanese Society for Biological Psychiatry

Publications

1. Hamanaka K, Imagawa E, Koshimizu E, Miyatake S, Tohyama J, Yamagata T, Miyauchi A, Ekhilevitch N, Nakamura F, Kawashima T, Goshima Y, Mohamed AR, Ch'ng GS, Fujita A, Azuma Y, Yasuda K, Imamura S, Nakashima M, Saitsu H, Mitsuhashi S, Mizuguchi T, Takata A, Miyake N, Matsumoto N: De Novo Truncating Variants in the Last Exon of SEMA6B Cause Progressive Myoclonic Epilepsy. ***Am J Hum Genet*** 106:549-558, 2020
2. Miyake N, Takahashi H, Nakamura K, Isidor B, Hiraki Y, Koshimizu E, Shiina M, Sasaki K, Suzuki H, Abe R, Kimura Y, Akiyama T, Tomizawa S, Hirose T, Hamanaka K, Miyatake S, Mitsuhashi S, Mizuguchi T, Takata A, Obo K, Kato M, Ogata K, Matsumoto N: Gain-of-Function MN1 Truncation Variants Cause a Recognizable Syndrome with Craniofacial and Brain Abnormalities. ***Am J Hum Genet*** 106:13-25, 2020
3. Sekiguchi F, Tsurusaki Y, Okamoto N, Teik KW, Mizuno S, Suzumura H, Isidor B, Ong WP, Haniffa M, White SM, Matsuo M, Saito K, Phadke S, Kosho T, Yap P, Goyal M, Clarke LA, Sachdev R, McGillivray G, Leventer RJ, Patel C, Yamagata T, Osaka H, Hisaeda Y, Ohashi H, Shimizu K, Nagasaki K, Hamada J, Dateki S, Sato T, Chinen Y, Awaya T, Kato T, Iwanaga K, Kawai M, Matsuoka T, Shimoji Y, Tan TY, Kapoor S, Gregersen N, Rossi M, Marie-Laure M, McGregor L, Oishi K, Mehta L, Gillies G, Lockhart PJ, Pope K, Shukla A, Girisha KM, Abdel-Salam GMH, Mowat D, Coman D, Kim OH, Cordier MP, Gibson K, Milunsky J, Liebelt J, Cox H, El Chehadeh S, Toutain A, Saida K, Aoi H, Minase G, Tsuchida N, Iwama K, Uchiyama Y, Suzuki T, Hamanaka K, Azuma Y, Fujita A, Imagawa E, Koshimizu E, Takata A, Mitsuhashi S, Miyatake S, Mizuguchi T, Miyake N, Matsumoto N: Genetic abnormalities in a large cohort of Coffin-Siris syndrome patients. ***J Hum Genet*** 64:1173-1186, 2019
4. Mukai J, Cannavo E, Crabtree GW, Sun ZY, Diamantopoulou A, Thakur P, Chang CY, Cai YF, Lomvardas S, Takata A, Xu B, Gogos JA: Recapitulation and Reversal of Schizophrenia-Related Phenotypes in Setd1a-Deficient Mice. ***Neuron*** 104:471-+, 2019
5. Okamoto N, Takata A, Miyake N, Matsumoto N: RALA mutation in a patient with autism spectrum disorder and Noonan syndrome-like phenotype. ***Congenit Anom*** 59:195-196, 2019
6. Alkanaq AN, Hamanaka K, Sekiguchi F, Taguri M, Takata A, Miyake N, Miyatake S, Mizuguchi T, Matsumoto N: Comparison of mitochondrial DNA variants detection using short- and long-

read sequencing. ***J Hum Genet*** 64:1107-1116, 2019

7. Den K, Kudo Y, Kato M, Watanabe K, Doi H, Tanaka F, Oguni H, Miyatake S, Mizuguchi T, Takata A, Miyake N, Mitsuhashi S, Matsumoto N: Recurrent NUS1 canonical splice donor site mutation in two unrelated individuals with epilepsy, myoclonus, ataxia and scoliosis - a case report. ***BMC Neurol*** 19:253, 2019
8. Aoi H, Mizuguchi T, Ceroni JR, Kim VEH, Furquim I, Honjo RS, Iwaki T, Suzuki T, Sekiguchi F, Uchiyama Y, Azuma Y, Hamanaka K, Koshimizu E, Miyatake S, Mitsuhashi S, Takata A, Miyake N, Takeda S, Itakura A, Bertola DR, Kim CA, Matsumoto N: Comprehensive genetic analysis of 57 families with clinically suspected Cornelia de Lange syndrome. ***J Hum Genet*** 64:967-978, 2019
9. Saida K, Kim CA, Ceroni JRM, Bertola DR, Honjo RS, Mitsuhashi S, Takata A, Mizuguchi T, Miyatake S, Miyake N, Matsumoto N: Hemorrhagic stroke and renovascular hypertension with Grange syndrome arising from a novel pathogenic variant in YY1AP1. ***J Hum Genet*** 64:885-890, 2019
10. Uchiyama Y, Kim CA, Pastorino AC, Ceroni J, Lima PP, Dorna MD, Honjo RS, Bertola D, Hamanaka K, Fujita A, Mitsuhashi S, Miyatake S, Takata A, Miyake N, Mizuguchi T, Matsumoto N: Primary immunodeficiency with chronic enteropathy and developmental delay in a boy arising from a novel homozygous RIPK1 variant. ***J Hum Genet*** 64:955-960, 2019
11. Den K, Kato M, Yamaguchi T, Miyatake S, Takata A, Mizuguchi T, Miyake N, Mitsuhashi S, Matsumoto N: A novel de novo frameshift variant in SETD1B causes epilepsy. ***J Hum Genet*** 64:821-827, 2019
12. Fujita A, Higashijima T, Shirozu H, Masuda H, Sonoda M, Tohyama J, Kato M, Nakashima M, Tsurusaki Y, Mitsuhashi S, Mizuguchi T, Takata A, Miyatake S, Miyake N, Fukuda M, Kameyama S, Saitsu H, Matsumoto N: Pathogenic variants of DYNC2H1, KIAA0556, and PTPN11 associated with hypothalamic hamartoma. ***Neurology*** 93:E237-E251, 2019
13. Hamanaka K, Takata A, Uchiyama Y, Miyatake S, Miyake N, Mitsuhashi S, Iwama K, Fujita A, Imagawa E, Alkanaq AN, Koshimizu E, Azuma Y, Nakashima M, Mizuguchi T, Saitsu H, Wada Y, Minami S, Katoh-Fukui Y, Masunaga Y, Fukami M, Hasegawa T, Ogata T, Matsumoto N:

MYRF haploinsufficiency causes 46,XY and 46,XX disorders of sex development: bioinformatics consideration. ***Hum Mol Genet*** 28:2319-2329, 2019

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15. Takata A, Nakashima M, Saitsu H, Mizuguchi T, Mitsuhashi S, Takahashi Y, Okamoto N, Osaka H, Nakamura K, Tohyama J, Haginoya K, Takeshita S, Kuki I, Okanishi T, Goto T, Sasaki M, Sakai Y, Miyake N, Miyatake S, Tsuchida N, Iwama K, Minase G, Sekiguchi F, Fujita A, Imagawa E, Koshimizu E, Uchiyama Y, Hamanaka K, Ohba C, Itai T, Aoi H, Saida K, Sakaguchi T, Den K, Takahashi R, Ikeda H, Yamaguchi T, Tsukamoto K, Yoshitomi S, Oboshi T, Imai K, Kimizu T, Kobayashi Y, Kubota M, Kashii H, Baba S, Iai M, Kira R, Hara M, Ohta M, Miyata Y, Miyata R, Takanashi J, Matsui J, Yokochi K, Shimono M, Amamoto M, Takayama R, Hirabayashi S, Aiba K, Matsumoto H, Nabatame S, Shiihara T, Kato M, Matsumoto N: Comprehensive analysis of coding variants highlights genetic complexity in developmental and epileptic encephalopathy. ***Nat Commun*** 10:2506, 2019
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32. Fukuda H, Imagawa E, Hamanaka K, Fujita A, Mitsuhashi S, Miyatake S, Mizuguchi T, Takata A, Miyake N, Kramer U, Matsumoto N, Fattal-Valevski A: A novel missense SNAP25b mutation in two affected siblings from an Israeli family showing seizures and cerebellar ataxia. ***J Hum Genet*** 63:673-676, 2018
33. Mizuguchi T, Nakashima M, Kato M, Okamoto N, Kurahashi H, Ekhilevitch N, Shiina M, Nishimura G, Shibata T, Matsuo M, Ikeda T, Ogata K, Tsuchida N, Mitsuhashi S, Miyatake S,

Takata A, Miyake N, Hata K, Kaname T, Matsubara Y, Saitsu H, Matsumoto N: Loss-of-function and gain-of-function mutations in PPP3CA cause two distinct disorders. ***Hum Mol Genet*** 27:1421-1433, 2018

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35. Miyake N, Ozasa S, Mabe H, Kimura S, Shiina M, Imagawa E, Miyatake S, Nakashima M, Mizuguchi T, Takata A, Ogata K, Matsumoto N: A novel missense mutation affecting the same amino acid as the recurrent PACS1 mutation in Schuurs-Hoeijmakers syndrome. ***Clin Genet*** 93:929-930, 2018
36. Iwama K, Takaori T, Fukushima A, Tohyama J, Ishiyama A, Ohba C, Mitsuhashi S, Miyatake S, Takata A, Miyake N, Ito S, Saitsu H, Mizuguchi T, Matsumoto N: Novel recessive mutations in MSTO1 cause cerebellar atrophy with pigmentary retinopathy. ***J Hum Genet*** 63:263-270, 2018
37. Tsuchida N, Nakashima M, Kato M, Heyman E, Inui T, Haginoya K, Watanabe S, Chiyonobu T, Morimoto M, Ohta M, Kumakura A, Kubota M, Kumagai Y, Hamano SI, Lourenco CM, Yahaya NA, Ch'ng GS, Ngu LH, Fattal-Valevski A, Hubshman MW, Orenstein N, Marom D, Cohen L, Goldberg-Stern H, Uchiyama Y, Imagawa E, Mizuguchi T, Takata A, Miyake N, Nakajima H, Saitsu H, Miyatake S, Matsumoto N: Detection of copy number variations in epilepsy using exome data. ***Clin Genet*** 93:577-587, 2018
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39. Tsuchida N, Nakashima M, Miyauchi A, Yoshitomi S, Kimizu T, Ganesan V, Teik KW, Ch'ng GS, Kato M, Mizuguchi T, Takata A, Miyatake S, Miyake N, Osaka H, Yamagata T, Nakajima H, Saitsu H, Matsumoto N: Novel biallelic SZT2 mutations in 3 cases of early-onset epileptic encephalopathy. ***Clin Genet*** 93:266-274, 2018
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