

NCNP ブレインバンク 研究業績

《 2013 》

Satoh J, Tabunoki H, Ishida T, Saito Y, Arima K. Accumulation of a repulsive axonal guidance molecule RGMa in amyloid plaques: a possible hallmark of regenerative failure in Alzheimer's disease brains. *Neuropathol Appl Neurobiol.* 39 (2): 109-20, 2013

Yonekawa T, Komaki H, Saito Y, Takashima H, Sasaki M. Congenital hypomyelinating neuropathy attributable to a de novo p.Asp61Asn mutation of the myelin protein zero gene. *Pediatr Neurol.* 48 (1): 59-62, 2013

Yonekawa T, Komaki H, Saito Y, Sugai K, Sasaki M. Peripheral nerve abnormalities in pediatric patients with spinal muscular atrophy. *Brain Dev.* 35 (2): 165-71, 2013

Satoh J, Kawana N, Yamamoto Y, Ishida T, Saito Y, Arima K. A survey of TREM2 antibodies reveals neuronal but not microglial staining in formalin-fixed paraffin-embedded postmortem Alzheimer's brain tissues. *Alzheimers Res Ther.* 5 (4): 30-2, 2013

Nagai S, Saito Y, Endo Y, Saito T, Sugai K, Ishiyama A, Komaki H, Nakagawa E, Sasaki M, Ito K, Saito Y, Sukigara S, Ito M, Goto Y, Ito S, Matsuoka K. Hypoalbuminemia in early onset dentatorubral-pallidolusian atrophy due to leakage of albumin in multiple organs. *J Neurol.* 260 (5): 1263-71, 2013

Dan A, Takahashi M, Masuda-Suzukake M, Kametani F, Nonaka T, Kondo H, Akiyama H, Arai T, Mann MA David, Saito Y, Hatsuta H, Murayama S, Hasegawa M. Extensive deamidation at asparagine residue 279 accounts for weak immunoreactivity of tau with RD4 antibody in Alzheimer's disease brain. *Acta Neuropathol Commun.* 1: 54-63, 2013

Tachibana N, Kinoshita M, Saito Y, Ikeda S. Identification of the N-Methyl-D- aspartate receptor (NMDAR)-related epitope, NR2B, in the normal human ovary: implication for the pathogenesis of anti-NMDAR encephalitis. *Tohoku J Exp Med.* 230 (1): 13-6, 2013

Wen Y, Miyashita A, Kitamura N, Tsukie T, Saito Y, Hatsuta H, Murayama S, Kakita A, Takahashi H, Akatsu H, Yamamoto T, Kosaka K, Yamaguchi H, Akazawa K, Ihara Y, Kuwano R. SORL1 is genetically associated with neuropathologically characterized late-onset Alzheimer's disease, *J Alzheimers Dis.* 35 (2): 387-94, 2013

Sakurai Y, Ishii K, Sonoo M, Saito Y, Murayama S, Iwata A, Hamada K, Sugimoto I, Tsuji S, Mannen T. Progressive apraxic agraphia with micrographia presenting as corticobasal syndrome showing extensive Pittsburgh compound B uptake. *J Neurol.* 260 (8): 1982-91, 2013

Satoh J, Tabunoki H, Ishida T, Saito Y, Arima K. Ubiquilin-1 immunoreactivity is concentrated on

Hirano bodies and dystrophic neurites in Alzheimer's disease brains. *Neuropathol Appl Neurobiol.* 39 (7): 817-30, 2013

Otsuki T, Honda R, Takahashi A, Kaido T, Kaneko Y, Nakai T, Saito Y, Itoh M, Nakagawa E, Sugai K, Sasaki M. Surgical management of cortical dysplasia in infancy and early childhood. *Brain Dev.* 35 (8): 802-9, 2013

Kawana N, Yamamoto Y, Ishida T, Saito Y, Konno H, Arima K, Satoh J: Reactive astrocytes and perivascular macrophages express NLRP3 inflammasome in active demyelinating lesions of multiple sclerosis and necrotic lesions of neuromyelitis optica and cerebral infarction. *Clinic Exp Neuroimmunol.* 4: 296-304, 2013

Funabe S, Takao M, Saito Y, Hatsuta H, Sugiyama M, Ito S, Kanemaru K, Sawabe M, Arai T, Mochizuki H, Hattori N, Murayama S. Neuropathologic analysis of Lewy-related α -synucleinopathy in olfactory mucosa. *Neuropathology.* 33(1): 47-58, 2013

《 2014 》

Hasegawa M, Watanabe S, Kondo H, Akiyama H, Mann DM, Saito Y, Murayama S. 3R and 4R tau isoforms in paired helical filaments in Alzheimer's disease. *Acta Neuropathol.* 127 (2): 303-5, 2014

Satoh J, Kino Y, Kawana N, Yamamoto Y, Ishida T, Saito Y, Arima K. TMEM106B expression is reduced in Alzheimer's disease brains. *Alzheimers Res Ther.* 6 (2): 17, doi: 10.1186/alzrt247. 2014

Satoh J, Motohashi N, Kino Y, Ishida T, Yagishita S, Jinnai K, Arai N, Nakamagoe K, Tamaoka A, Saito Y, Arima K. LC3, an autophagosome marker, is expressed on oligodendrocytes in Nasu-Hakola disease brains. *Orphanet J Rare Dis.* 9: 68, doi: 10.1186/1750-1172-9-68. 2014

Satoh J, Kino Y, Yamamoto Y, Kawana N, Ishida T, Saito Y, Arima K. PLD3 is accumulated on neuritic plaques in Alzheimer's disease brains. *Alzheimers Res Ther.* 6 (9): 70, doi: 10.1186/s13195-014-0070-5. 2014

Sakurai K, Tokumaru AM, Nakatsuka T, Murayama S, Hasebe S, Imabayashi E, Kanemaru K, Takao M, Hatsuta H, Ishii K, Saito Y, Shibamoto Y, Matsukawa N, Chikui E, Terada H. Imaging spectrum of sporadic cerebral amyloid angiopathy: multifaceted features of a single pathological condition. *Insights Imaging.* 5 (3): 375-85, 2014

Miyashita A, Hatsuta H, Kikuchi M, Nakaya A, Saito Y, Tsukie T, Hara N, Ogishima S, Kitamura N, Akazawa K, Kakita A, Takahashi H, Murayama S, Ihara Y, Ikeuchi T, Kuwano R: Japanese Alzheimer's Disease Neuroimaging Initiative. Genes associated with the progression of neurofibrillary tangles in Alzheimer's disease. *Transl Psychiatry.* 4:e396, doi: 10.1038/tp.2014.35. 2014

Kamiya K, Sato NU, Saito Y, Nakata Y, Ito K, Shigemoto Y, Ota M, Sasaki M, Ohtomo K.

Accelerated myelination along fiber tracts in patients with hemimegalencephaly. *J Neuroradiol.* 41 (3): 202-10, 2014

Miyashita A, Wen Y, Kitamura N, Matsubara E, Kawarabayashi T, Shoji M, Tomita N, Furukawa K, Arai H, Asada T, Harigaya Y, Ikeda M, Amari M, Hanyu H, Higuchi S, Nishizawa M, Suga M, Kawase Y, Akatsu H, Imagawa M, Hamaguchi T, Yamada M, Morihara T, Takeda M, Takao T, Nakata K, Sasaki K, Watanabe K, Nakashima K, Urakami K, Ooya T, Takahashi M, Yuzuriha T, Serikawa K, Yoshimoto S, Nakagawa R, Saito Y, Hatsuta H, Murayama S, Kakita A, Takahashi H, Yamaguchi H, Akazawa K, Kanazawa I, Ihara Y, Ikeuchi T, Kuwano R. Lack of genetic association between TREM2 and late-onset Alzheimer's disease in a Japanese population. *J Alzheimers Dis.* 41 (4): 1031-8, 2014

Matsumoto H, Sengoku R, Saito Y, Kakuta Y, Murayama S, Imafuku I. Sudden death in Parkinson's disease: a retrospective autopsy study. *J Neurol Sci.* 343 (1-2): 149-52, 2014

Sukigara S, Dai H, Nabatame S, Otsuki T, Hanai S, Honda R, Saito T, Nakagawa E, Kaido T, Sato N, Kaneko Y, Takahashi A, Sugai K, Saito Y, Sasaki M, Goto Y, Koizumi S, Itoh M. Expression of astrocyte-related receptors in cortical dysplasia with intractable epilepsy. *J Neuropathol Exp Neurol.* 73 (8): 798-806, 2014

Ito S, Takao M, Hatsuta H, Kanemaru K, Arai T, Saito Y, Fukayama M, Murayama S. Alpha-synuclein immunohistochemistry of gastrointestinal and biliary surgical specimens for diagnosis of Lewy body disease. *Int J Clin Exp Pathol.* 7(4): 1714-23, 2014

《 2015 》

Satoh J, Kino Y, Motohashi N, Ishida T, Yagishita S, Jinnai K, Arai N, Nakamagoe K, Tamaoka A, Saito Y, Arima K. Immunohistochemical characterization of CD33 expression on microglia in Nasu-Hakola disease brains. *Neuropathology.* 35 (6): 529-37, 2015

Kitano S, Kino Y, Yamamoto Y, Takitani M, Miyoshi J, Ishida T, Saito Y, Arima K, Satoh J. Bioinformatics data mining approach suggests coexpression of AGTPBP1 with an ALS-linked gene C9orf72. *J Cent Nerv Syst Dis.* 7: 15-26, 2015

Kimura Y, Sato N, Saito Y, Ito K, Kamiya K, Nakata Y, Watanabe M, Maikusa N, Matsuda H, Sugimoto H. Temporal lobe epilepsy with unilateral amygdala enlargement: morphometric MR analysis with clinical and pathological study. *J Neuroimaging.* 25 (2): 175-83, 2015

Adachi Y, Sato N, Saito Y, Kimura Y, Nakata Y, Ito K, Kamiya K, Matsuda H, Tsukamoto T, Ogawa M. Usefulness of SWI for the detection of iron in the motor cortex in amyotrophic lateral sclerosis. *J Neuroimaging.* 25: 443-51, 2015

Kuninaka N, Kawaguchi M, Ogawa M, Sato A, Arima K, Murayama S, Saito Y: Simplification of

the modified Gallyas method. *Neuropathology*. 35: 10–5, 2015

Shioya A, Saito Y, Arima K, Kakuta Y, Yuzuriha T, Tanaka N, Murayama S, Tamaoka A. Neurodegenerative changes in patients with clinical history of bipolar disorders. *Neuropathology*. 35 (3): 245-53, 2015

Hatsuta H, Takao M, Ishii K, Ishiwata K, Saito Y, Kanemaru K, Arai T, Suhara T, Shimada H, Shinotoh H, Tamaoka A, Murayama S. Amyloid β accumulation assessed with ^{11}C -Pittsburgh compound B PET and postmortem neuropathology. *Curr Alzheimer Res*. 12 (3): 278-86, 2015

Fukasawa T, Kubota T, Negoro T, Maruyama S, Honda R, Saito Y, Itoh M, Kakita A, Sugai K, Otsuki T, Kato M, Natsume J, Watanabe K. Two siblings with cortical dysplasia: clinico-electroencephalographic features. *Pediatr Int*. 57 (3): 472-5, 2015

Uchino A, Takao M, Hatsuta H, Sumikura H, Nakano Y, Nogami A, Saito Y, Arai T, Nishiyama K, Murayama S. Incidence and extent of TDP-43 accumulation in aging human brain. *Acta Neuropathol Commun*. 3: 35, doi: 10.1186/s40478-015-0215-1. 2015

Sumikura H, Takao M, Hatsuta H, Ito S, Nakano Y, Uchino A, Nogami A, Saito Y, Mochizuki H, Murayama S. Distribution of α -synuclein in the spinal cord and dorsal root ganglia in an autopsy cohort of elderly persons. *Acta Neuropathol Commun*. 3: 57, doi: 10.1186/s40478-015-0215-1. 2015

Nogami A, Yamazaki M, Saito Y, Hatsuta H, Sakiyama S, Takao M, Kimura K, Murayama S. Early stage of progressive supranuclear palsy: neuropathological study of 324 consecutive autopsy cases. *J Nippon Med Sch*. 82 (6): 266-73, 2015

Ishigami A, Masutomi H, Handa S, Nakamura M, Nakaya S, Uchida Y, Saito Y, Murayama S, Jang B, Jeon YC, Choi EK, Kim YS, Kasahara Y, Maruyama N, Toda T. Mass spectrometric identification of citrullination sites and immunohistochemical detection of citrullinated glial fibrillary acidic protein in Alzheimer's disease brains. *J Neurosci Res*. 93 (11): 1664-74, 2015

《 2016 》

Satoh JI, Kino Y, Asahina N, Takitani M, Miyoshi J, Ishida T, Saito Y. TMEM119 marks a subset of microglia in the human brain. *Neuropathology*, 36 (1): 39-49, 2016

Koichihara R, Saito T, Ishiyama A, Komaki H, Yuasa S, Saito Y, Nakagawa E, Sugai K, Shiihara T, Shioya A, Saito Y, Higuchi Y, Hashiguchi A, Takashima H, Sasaki M. A mild case of giant axonal neuropathy without central nervous system manifestation. *Brain Dev*. 38 (3): 350-3, 2016

Saito Y, Shioya A, Sano T, Sumikura H, Murata M, Murayama S. Lewy body pathology involves the olfactory cells in Parkinson's disease and related disorders. *Mov Disord*. 31 (1): 135-8, 2016

Taniguchi-Watanabe S, Arai T, Kametani F, Nonaka T, Masuda-Suzukake M, Tarutani A, Murayama

S, [Saito Y](#), Arima K, Yoshida M, Akiyama H, Robinson A, Mann DM, Iwatsubo T, Hasegawa M. Biochemical classification of tauopathies by immunoblot, protein sequence and mass spectrometric analyses of sarkosyl-insoluble and trypsin-resistant tau. *Acta Neuropathol.* 131 (2): 267-80, 2016

Sone D, Sato N, Yokoyama K, Sumida K, Kanai M, Imabayashi E, [Saito Y](#), Matsuda H. Striatal glucose hypometabolism in preadolescent-onset dentatorubral-pallidoluysonian atrophy. *J Neurol Sci.* 360: 121-4, 2016

Kametani F, Obi T, Shishido T, Akatsu H, Murayama S, [Saito Y](#), Yoshida M, Hasegawa M. Mass spectrometric analysis of accumulated TDP-43 in amyotrophic lateral sclerosis brains. *Sci Rep.* 6: 23281, doi: 10.1038/srep23281. 2016

Satoh JI, Kino Y, Yanaizu M, Tosaki Y, Sakai K, Ishida T, Saito Y. Expression of gp91phox and p22phox, catalytic subunits of NADPH oxidase, on microglia in Nasu-Hakola disease brains. *Intractable Rare Dis Res.* 5(4): 275-9, 2016

《 2017 》

Tomioka I, Ishibashi H, Minakawa EN, Motohashi HH, Takayama O, [Saito Y](#), Popiel HA, Puentes S, Owari K, Nakatani T, Nogami N, Yamamoto K, Noguchi S, Yonekawa T, Tanaka Y, Fujita N, Suzuki H, Kikuchi H, Aizawa S, Nagano S, Yamada D, Nishino I, Ichinohe N, Wada K, Kohsaka S, Nagai Y, Seki K. Transgenic monkey model of the polyglutamine diseases recapitulating progressive neurological symptoms. *eNeuro.* 4 (2), doi: 10.1523/ENEURO.0250-16.2017. eCollection 2017

Honma N, Saji S, Mikami T, Yoshimura N, Mori S, [Saito Y](#), Murayama S, Harada N. Estrogen-related factors in the frontal lobe of Alzheimer's disease patients and importance of body mass index. *Sci Rep.* 7 (1): 726, doi: 10.1038/s41598-017-00815-3. 2017

Morimoto S, Takao M, Hatsuta H, Nishina Y, Komiya T, Sengoku R, Nakano Y, Uchino A, Sumikura H, [Saito Y](#), Kanemaru K, Murayama S. Homovanillic acid and 5-hydroxyindole acetic acid as biomarkers for dementia with Lewy bodies and coincident Alzheimer's disease: an autopsy-confirmed study. *PLoS One.* 12 (2): e0171524, doi: 10.1371/journal.pone.0171524. eCollection 2017

Hara N, Kikuchi M, Miyashita A, Hatsuta H, [Saito Y](#), Kasuga K, Murayama S, Ikeuchi T, Kuwano R. Serum microRNA miR-501-3p as a potential biomarker related to the progression of Alzheimer's disease. *Acta Neuropathol Commun.* 5 (1): 10, doi: 10.1186/s40478-017-0414-z, 2017

Akasaka-Manyu K, Kawamura M, Tsumoto H, [Saito Y](#), Tachida Y, Kitazume S, Hatsuta H, Miura Y, Hisanaga SI, Murayama S, Hashimoto Y, Manyu H, Endo T. Excess APP O-glycosylation by GalNAc-T6 decreases A β production. *J Biochem.* 161(1): 99-111, 2017

Sugiyama A, Sato N, Kimura Y, Maekawa T, Enokizono M, Saito Y, Takahashi Y, Matsuda H, Kuwabara S. MR imaging features of cerebellum in adult-onset neuronal intranuclear inclusion disease: Eight cases. *AJNR Am J Neuroradiol.* 38 (11): 2100-4, 2017

Araki W, Hattori K, Kanemaru K, Yokoi Y, Omachi Y, Takano H, Sakata M, Yoshida S, Tsukamoto T, Murata M, Saito Y, Kunugi H, Goto YI, Nagaoka U, Nagao M, Komori T, Arima K, Ishii K, Murayama S, Matsuda H, Tachimori H, Araki YM, Mizusawa H. Re-evaluation of soluble APP- α and APP- β in cerebrospinal fluid as potential biomarkers for early diagnosis of dementia disorders. *Biomark Res.* 5: 28, doi: 10.1186/s40364-017-0108-5. eCollection 2017

Satoh JI, Kino Y, Yanaizu M, Tosaki Y, Sakai K, Ishida T, Saito Y. Microglia express ABI3 in the brains of Alzheimer's disease and Nasu-Hakola disease. *Intractable Rare Dis Res.* 6 (4): 262-8, 2017

Satoh JI, Kino Y, Yanaizu M, Tosaki Y, Sakai K, Ishida T, Saito Y. Expression of GPR17, a regulator of oligodendrocyte differentiation and maturation, in Nasu-Hakola disease brains. *Intractable Rare Dis Res.* 6 (1): 50-4, 2017

《 2018 》

Satoh JI, Kino Y, Yanaizu M, Saito Y. Alzheimer's disease pathology in Nasu-Hakola disease brains. *Intractable Rare Dis Res.* 7(1): 32-6, 2018

Kitamura Y, Komori T, Shibuya M, Ohara K, Saito Y, Hayashi S, Sasaki A, Nakagawa E, Tomio R, Kakita A, Nakatsukasa M, Yoshida K, Sasaki H. Comprehensive genetic characterization of rosette-forming glioneuronal tumors: independent component analysis by tissue microdissection. *Brain Pathol.* 28 (1): 87-93, 2018

Sumitomo N, Ishiyama A, Shibuya M, Nakagawa E, Kaneko Y, Takahashi A, Ohtsuki T, Kakita A, Saito Y, Sato N, Sugai K, Sasaki M. Intractable epilepsy due to a rosette-forming glioneuronal tumor with a dysembryoplastic neuroepithelial background. *Neuropathology.* 38 (3): 300-4, 2018

Ishiyama A, Kimura Y, Saito Y, Miyamoto Y, Okada M, Sato N, Nishino I, Sasaki M. Transient swelling in the globus pallidus and substantia nigra in childhood suggests SENDA/BPAN. *Neurology.* 90 (21): 974-76, 2018