

Neurology

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Major Scientific Interests of the Group

- 1) Molecular pathogenesis of Alzheimer's disease
- 2) Neurobiology of degenerative disorders
- 3) Gene therapy for muscular dystrophies
- 4) Neuroimmunology
- 5) Clinical Neurology
- 6) Clinical and epidemiological studies of organoarsenic intoxication

Projects for Regular Students in Doctoral or Master's Programs

- 1) Pathology and biochemistry of neuromuscular disorders
- 2) Neuro-ophthalmology of neurological disorders

Study Programs for Short Stay Students (one week – one trimester)

- 1) Neurophysiology of various neurological disorders
- 2) Immunostaining of neuromuscular diseases

Selected Publications

- 1) Nakamagoe K, Yamada S, Kawakami R, Koganezawa T, Tamaoka A. Abnormal Saccadic Intrusions with Alzheimer's Disease in Darkness. *Curr Alzheimer Res*. 2019 Mar 10. doi: 10.2174/1567205016666190311102130. [Epub ahead of print]
- 2) Miyake Z, Tomidokoro Y, Tsurubuchi T, Matsumura A, Sakamoto N, Noguchi M, Tamaoka A. Intravascular large B-cell lymphoma presenting with hearing loss and dizziness: A case report. *Medicine (Baltimore)*. 2019 Feb;98(7):e14470. doi: 10.1097/MD.00000000000014470.
- 3) Shiraiwa N, Tamaoka A, Ohkoshi N. Clinical features of drug-induced Parkinsonism. *Neurol Int*. 2018 Dec 20;10(4):7877. doi: 10.4081/ni.2018.7877. eCollection 2018 Dec 5.
- 4) Yamamoto F, Taniguchi K, Mamada N, Tamaoka A, Kametani F, Lakshmana MK, Araki W. TFEB-mediated enhancement of the autophagy-lysosomal pathway dually modulates the process of amyloid β -protein generation in neurons. *Neuroscience*. 2019 Jan 21. pii: S0306-4522(19)30030-2. doi: 10.1016/j.neuroscience.2019.01.010. [Epub ahead of print]
- 5) Tsuji H, Ayako S, Takayashiki N, Irie T, Itoi S, Kodama T, Kaji Y, Matsuoka R, Mashiko R, Shibata Y, Ishii A, Siato Y, Tamaoka A. Meningeal carcinomatosis presenting with leukoencephalopathy-like imaging findings. *eNeurologicalSci*. 2018 Nov 19;14:21-23. doi: 10.1016/j.ensci.2018.11.018. eCollection 2019 Mar.

- 6) Nakamagoe K, Yamada S, Kawakami R, Miyake Z, Tozaka N, Okune S, Takeda H, Koganezawa T, Tamaoka A. Vestibular dysfunction as cortical damage with amyotrophic lateral sclerosis. *J Neurol Sci.* 2018 Dec 5;397:4-8. doi: 10.1016/j.jns.2018.12.006. [Epub ahead of print]
- 7) Tomono T, Hirai Y, Okada H, Miyagawa Y, Adachi K, Sakamoto S, Kawano Y, Chono H, Mineno J, Ishii A, Shimada T, Onodera M, Tamaoka A, Okada T. Highly Efficient Ultracentrifugation-free Chromatographic Purification of Recombinant AAV Serotype 9. *Mol Ther Methods Clin Dev.* 2018 Nov 1;11:180-190. doi: 10.1016/j.omtm.2018.10.015. eCollection 2018 Dec 14.
- 8) Hosaka T, Yamashita T, Teramoto S, Hirose N, Tamaoka A, Kwak S. ADAR2-dependent A-to-I RNA editing in the extracellular linear and circular RNAs. *Neurosci Res.* 2018 Nov 16. pii: S0168-0102(18)30587-X. doi: 10.1016/j.neures.2018.11.005. [Epub ahead of print]
- 9) Miyake Z, Ishii K, Tamaoka A. Hypothyroidism induced by phenytoin and gabapentin: A Case Report. *Medicine (Baltimore).* 2018 Oct;97(43):e12938. doi: 10.1097/MD.00000000000012938.
- 10) Miyake Z, Nakamagoe K, Ezawa N, Yoshinaga T, Hashimoto R, Sato T, Sekijima Y, Tamaoka A. Late-onset Transthyretin (TTR)-familial Amyloid Polyneuropathy (FAP) with a Long Disease Duration from Non-endemic Areas in Japan. *Intern Med.* 2018 Oct 17. doi: 10.2169/internalmedicine.1457-18. [Epub ahead of print]
- 11) Yamada E, Ishikawa E, Watanabe R, Matsumura H, Sakamoto N, Ishii A, Tamaoka A, Hattori K, Obara N, Chiba S, Nakamagoe K, Matsuda M, Tsurubuchi T, Tomidokoro Y, Akutsu H, Zaboronok A, Shibuya M, Takano S, Matsumura A. Random Skin Biopsies Before Brain Biopsy for Intravascular Large B-Cell Lymphoma. *World Neurosurg.* 2019 Jan;121:e364-e369. doi: 10.1016/j.wneu.2018.09.110. Epub 2018 Sep 25.
- 12) Ishii K, Nemoto K, Iwasaki N, Takeda T, Masuda T, Shibata Y, Tamaoka A. Decreased regional cerebral blood flow in patients with diphenylarsinic acid intoxication. *Eur J Neurol.* 2019 Jan;26(1):136-141. doi: 10.1111/ene.13783. Epub 2018 Sep 19.
- 13) Terada M, Suzuki G, Nonaka T, Kametani F, Tamaoka A, Hasegawa M. The effect of truncation on prion-like properties of α -synuclein. *J Biol Chem.* 2018 Jul 20. pii: jbc.RA118.001862. doi: 10.1074/jbc.RA118.001862. [Epub ahead of print]
- 14) Nakamagoe K, Yanagiha H, Miyake Z, Kondo Y, Hiyama T, Ishii A, Kaji Y, Oshika T, Sumida T, Tamaoka A. Monocular Oculomotor Nerve Disorder Manifesting as Cranial Neuropathy in Systemic Lupus Erythematosus: A Case Report. *Intern Med.* 2018 Jul 6. doi: 10.2169/internalmedicine.1106-18. [Epub ahead of print]
- 15) Miyake Z, Ishii K, Matsuo H, Higuchi O, Tamaoka A. Isolated bilateral abducens paralysis without ptosis in an anti-LDL receptor-related protein 4 antibody-positive patient treated effectively with steroid-pulse therapy. *J Neurol Sci.* 2018 Jul 15;390:42-43. doi: 10.1016/j.jns.2018.04.007. Epub 2018 Apr 8. No abstract available.
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- 18) Yamada K, Shiraishi H, Oki E, Ishige M, Fukao T, Hamada Y, Sakai N, Ochi F, Watanabe A, Kawakami S, Kuzume K, Watanabe K, Sameshima K, Nakamagoe K, Tamaoka A, Asahina N, Yokoshiki S, Miyakoshi T, Ono K, Oba K, Isoe T, Hayashi H, Yamaguchi S, Sato N. Open-label clinical trial of bezafibrate treatment in patients with fatty acid oxidation disorders in Japan. *Mol Genet Metab Rep.* 2018 Feb 22;15:55-63. doi: 10.1016/j.ymgmr.2018.02.003. eCollection 2018 Jun.
- 19) Ishiura H, Doi K, Mitsui J, Yoshimura J, Matsukawa MK, Fujiyama A, Toyoshima Y, Kakita A, Takahashi H, Suzuki Y, Sugano S, Qu W, Ichikawa K, Yurino H, Higasa K, Shibata S, Mitsue A, Tanaka M, Ichikawa Y, Takahashi Y, Date H, Matsukawa T, Kanda J, Nakamoto FK, Higashihara M, Abe K, Koike R, Sasagawa M, Kuroha Y, Hasegawa N, Kanesawa N, Kondo T, Hitomi T, Tada M, Takano H, Saito Y, Sanpei K, Onodera O, Nishizawa M, Nakamura M, Yasuda T, Sakiyama Y, Otsuka M, Ueki A, Kaida KI, Shimizu J, Hanajima R, Hayashi T, Terao Y, Inomata-Terada S, Hamada M, Shirota Y, Kubota A, Ugawa Y, Koh K, Takiyama Y, Ohsawa-Yoshida N, Ishiura S, Yamasaki R, Tamaoka A, Akiyama H,

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- 20) Okune S, Ishii K, Ouchi S, Sakakura K, Matsuda M, Tamaoka A. A cerebral phenotype of chronic lymphocytic inflammation with pontine perivascular enhancement responsive to steroids: A case report and review of the literature. *Mult Scler Relat Disord.* 2018 Jan 26;20:159-163. doi: 10.1016/j.msard.2018.01.017. [Epub ahead of print]
- 21) Masuda T, Ishii K, Nakayama T, Iwasaki N, Shibata Y, Tamaoka A. High-sensitivity quantitative analysis reveals the non-linear relationship between the dose and deposition of diphenylarsinic acid in the rat central nervous system following its subchronic exposure. *Neurotoxicol Teratol.* 2018 Jan - Feb;65:26-33. doi: 10.1016/j.ntt.2017.12.004. Epub 2017 Dec 7.
- 22) Nakamagoe K, Tozaka N, Nohara S, Kawakami R, Yamada S, Koganezawa T, Tamaoka A. Upbeat nystagmus is a useful sign in the regional diagnosis of trigeminal nerve disorder with multiple sclerosis. *Mult Scler Relat Disord.* 2018 Jan;19:59-61. doi: 10.1016/j.msard.2017.11.008. Epub 2017 Nov 9.
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- 28) Nakamagoe K, Nohara S, Takahashi Y, Takiguchi M, Kawakami R, Koganezawa T, Tamaoka A. The Successful Application of Plasmapheresis in the Treatment of a Patient with Opsoclonus and Autoantibodies to Glutamate Receptor δ . *Intern Med.* 2017 Sep 15. doi: 10.2169/internalmedicine.6771-15. [Epub ahead of print]
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- 59) Ishii K, Ishii K, Shioya A, Nemoto K, Tamaoka A. Decreased dopamine transporter and receptor ligand binding in Parkinsonism with diabetic uremic syndrome. *Ann Nucl Med*. 2016 May;30(4):320-4. doi: 10.1007/s12149-015-1054-7. Epub 2016 Jan 20. PMID:26790869
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