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Date of Birth: April 30, 1971
Nationality: Japanese

Education

Years	Degree	Institute and Location
2000-2004	Ph.D.	Kyoto University Graduate School of Medicine, Kyoto, Japan
1990-1996	M.D.	Tokyo Medical and Dental University, Tokyo, Japan

Positions

2019-present	Junior Associate Professor, Department of Clinical Application, Center for iPS Cell Research and Application, Kyoto University, Kyoto
2012-2019	Assistant Professor, Department of Clinical Application, Center for iPS Cell Research and Application, Kyoto University, Kyoto
2010-2012	Postdoctoral researcher, Department of Cell Growth and Differentiation, Center for iPS Cell Research and Application, Kyoto University, Kyoto
2008-2010	Postdoctoral researcher, Department of Biological Repair, Institute for Frontier Medical Sciences, Kyoto University, Kyoto
2006-2008	Postdoctoral fellow, Section for Neuronal Survival Unit, Wallenberg Neuroscience Center, Biomedical Center, Lund University, Lund, Sweden
2005-2006	Clinical staff, Endovascular therapy unit, Institute of Biomedical Research and Innovation (IBRI), Kobe, Japan
2003-2006	Clinical staff, Kobe City General Hospital, Department of Neurosurgery, Kobe, Japan
1998-2000	Resident, National Cardiovascular Center, Department of Neurosurgery, Osaka, Japan
1997-1998	Resident, Shizuoka General Hospital, Department of Neurosurgery, Shizuoka, Japan
1996-1997	Resident, Department of Neurosurgery, Kyoto University Hospital, Kyoto, Japan

License and Certifications

2015	Japanese Society for Regenerative Medicine Certified Physician
2005	Japanese Society for Neuroendovascular Therapy Certified Physician
2004	Japan Neurosurgical Society Specialist Physician
2004	PhD, Kyoto University Graduate School of Medicine

Selected Publications

Kikuchi T, Morizane A, Doi D, Magotani H, Onoe H, Hayashi T, et al: Human iPSC cell-derived dopaminergic neurons function in a primate Parkinson's disease model *Nature*, 2017;548: 592-6

Morizane A, Kikuchi T, Hayashi T, Mizuma H, Takara S, Doi H, et al: MHC matching improves engraftment of iPSC-derived neurons in non-human primates *Nature Communications*, 2017;8:385

Ueki J, Nakamori M, Nakamura M, Nishikawa M, Yoshida Y, Tanaka A, et al: Myotonic dystrophy type 1 patient-derived iPSCs for the investigation of CTG repeat instability. *Sci Rep*, 2017;7:42522

Parr CJ, Katayama S, Miki K, Kuang Y, Yoshida Y, Morizane A, et al: MicroRNA-302 switch to identify and eliminate undifferentiated human pluripotent stem cells. *Sci Rep*, 2016;6:32532

Morizane, A. & Takahashi, J. Cell Therapy for Parkinson's Disease. *Neurol Med Chir (Tokyo)*, 2016;56:102-109, DOI: 10.2176/nmc.ra.2015-0303

Doi D, Samata B, Katsukawa M, Kikuchi T, Morizane A, Ono Y, Sekiguchi K, Nakagawa M, Parmar M, Takahashi J. Isolation of human induced pluripotent stem cell-derived dopaminergic progenitors by cell sorting for successful transplantation. *Stem Cell Reports*. 2014;2:337-350, DOI:10.1016/j.stemcr.2014.01.013

Koyanagi-Aoi M, Ohnuki M, Takahashi K, Okita K, Noma H, Sawamura Y, Teramoto I, Narita M, Sato Y, Ichisaka T, Amano N, Watanabe A, Morizane A, Yamada Y, Sato T, Takahashi J, Yamanaka S. Differentiation-defective phenotypes revealed by large-scale analyses of human pluripotent stem cells. *Proc Natl Acad Sci U S A*. 2013;110:20569-20574, DOI:10.1073/pnas.1319061110

Morizane A, Doi D, Kikuchi T, Okita K, Hotta A, Kawasaki T, Hayashi T, Onoe T, Shiina T, Yamanaka S, Takahashi J. Direct comparison of autologous and allogeneic transplantation of

iPSC-derived neural cells in the brain of a nonhuman primate. *Stem Cell Reports* 2013; 1(4):283-92, DOI: 10.1016/j.stemcr.2013.08.007

Egawa N, Kitaoka S, Tsukita K, Naitoh M, Takahashi K, Yamamoto T, Adachi F, Kondo T, Okita K, Asaka I, Aoi T, Watanabe A, Yamada Y, Morizane A, Takahashi J, Ayaki T, Ito H, Yoshikawa K, Yamawaki S, Suzuki S, Watanabe D, Hioki H, Kaneko T, Makioka K, Okamoto K, Takuma H, Tamaoka A, Hasegawa K, Nonaka T, Hasegawa M, Kawata A, Yoshida M, Nakahata T, Takahashi R, Marchetto MCN, Gage FH, Yamanaka S, Inoue H. Drug screening for ALS using patient-specific induced pluripotent stem cells. *Sci Transl Med.* 2012; 4: 145-104, DOI: 10.1126/scitranslmed.3004052

Doi D, Morizane A, Kikuchi T, Onoe H, Hayashi T, Kawasaki T, Motono M, Sasai Y, Saiki H, Gomi M, Yoshikawa T, Hayashi H, Shinoyama M, Mohamed R, Suemori H, Miyamoto S, Takahashi J. Prolonged Maturation Culture Favors a Reduction in the Tumorigenicity and the Dopaminergic Function of Human ESC-Derived Neural Cells in a Primate Model of Parkinson's Disease. *Stem Cells.* 2012; 30(5):935-45, DOI:10.1002/stem.1060

Okita K, Matsumura Y, Sato Y, Okada A, Morizane A, Okamoto S, Hong H, Nakagawa M, Tanabe K, Tezuka KI, Shibata T, Kunisada T, Takahashi M, Takahashi J, Saji H, Yamanaka S. A more efficient method to generate integration-free human iPS cells. *Nat Methods.* 2011; 8:409-412, DOI:10.1038/nmeth.1591

Takagi Y, Takahashi J, Saiki H, Morizane A, Hayashi T, Kishi Y, Fukuda H, Okamoto Y, Koyanagi M, Ideguchi M, Hayashi H, Imazato T, Kawasaki H, Suemori H, Omachi S, Iida H, Itoh N, Nakatsuji N, Sasai Y, Hashimoto N. Dopaminergic neurons generated from monkey embryonic stem cells function in a Parkinson primate model. *J Clin Invest.* 2005; 115:102-109, DOI:10.1172/JCI21137

Selected presentations

13th International Conference on Alzheimer's and Parkinson's Diseases – ADPD 2017, Vienna, Austria, 2017 March 29-April 2, Cell therapy for Parkinson's disease with induced pluripotent stem cells (symposium)

The 10th Annual Meeting of Korean Society of Stem Cell Research, Seoul, Korea, 2014 Aug 28, Immune response in the brain after transplantation of the neural cells derived from induced pluripotent stem cells

CiRA International Symposium 2013, Kyoto, Japan, 2013 Mar 12, Autologous/Allogenic transplantation of neurons derived from iPSCs into monkey brain

Neuroscience 2010 (Society for neuroscience), San Diego, California, 2010 Nov 14, Differences in neural differentiation propensity among cell lines of human pluripotent stem cells, (nanosymposium)

Academic merits

Reviewer for the journals: Proc Natl Acad Sci USA, Journal of Neurochemistry, Experimental Neurology, Neuroscience, Journal of Comparative Neurology, Neuroscience, Journal of neuroscience research, Science Translational Medicine, BMC developmental biology, etc.