

Curriculum Vitae

A. Identification

Name: Ryosuke Takahashi

Date and Place of Birth: February 23, 1959, Kyoto, JAPAN

Citizenship: Japanese

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B. Degrees:

M.D.

Kyoto University
May, 1983

Ph.D. in Medical Science
Kyoto University
January, 1995

C. Education and Training

- April 1977-March 1983; Undergraduate/Graduate, Kyoto University Medical School, Kyoto, Japan.
- June 1983-March 1984; Resident, Department of Neurology, Kyoto University Hospital, Kyoto, Japan.
- April 1984-March 1986; Resident, Department of Neurology, Center for Neurological Diseases, Kitano Hospital, Osaka, Japan,

D. Professional Appointments

- April 1986-March 1989; Staff Physician, Department of Neurology, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan,
- April 1989-October 1995; Staff Scientist, Department of Neurology, Tokyo Metropolitan Institute for Neuroscience, Tokyo, Japan

- November 1995-October 1997; Visiting Postdoctoral Fellow, John Reed's lab, The Burnham Institute, La Jolla, California
- November 1997-June 1999; Staff Scientist, Department of Neurology, Tokyo Metropolitan Institute for Neuroscience, Tokyo, Japan
- July 1999-December 2004; Laboratory Head, Laboratory for Motor System Neurodegeneration, RIKEN Brain Science Institute, Saitama, Japan
- January 2005-present; Professor and Chairman, Department of Neurology, Kyoto University Graduate School of Medicine, Kyoto, Japan
- May 2014-May 2018; President, CEO, Japanese Society of Neurology
- June 2015-2019; International Executive Committee Member, International Parkinson and Movement Disorder Society
- May 2021; Chair, 62nd Annual Meeting of the Japanese Society of Neurology

E. Membership

- 1983.7.11 : Japanese Society of Neurology (Executive Member)
- 1992.8.1 : Japan Neuroscience Society (Member, Trustee/Vice President)
- 2000.8.1 : The Molecular Biology Society of Japan (Member)
- 1999.8.16 : The Japanese Biochemical Society (Member)
- 1994 : Society for Neuroscience (Foreign Member)
- 2005 : International Parkinson & Movement Disorder Society (Member)
- 2011.10 : American Neurological Association (Fellow)

F. Journal Editor

- Editorial Board, Neuroscience Research, Elsevier (2005-2014)
- Editorial Board, Journal of Neural Transmission, Springer (2008-)
- Editorial Board, Neuroscience & Clinical Neurology, Wiley (2013-2019)
- Editorial Board, Movement Disorders, Wiley (2014-)
- Editorial Board, Molecular Brain, Elsevier (2015-)

F. Ad Hoc Reviewer

Science, Nature Genetics, Nature Medicine, PNAS, Journal of Cell Biology, EMBO Journal, Journal of Neuroscience, Journal of Biological Chemistry, Human Molecular Genetics, Oncogene, FASEB Journal, Cell Death and Differentiation, Molecular Biology of the Cell, Journal of Neurochemistry, Neurology, Journal of Neuroscience Research, Neurobiology of Disease, Genes

to Cells, Neuroscience Research, Brain Research, Neuroscience Letters,
Oligonucleotides, Stem Cell Reports

G. Scientific Awards

August 1993

Nakabayashi award for ALS research

April 1996- October 1997

Longterm Fellowship of International Human Frontier Science Program

Publication List

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Original Papers

1. Ohtake, T., Takahashi, R., Nagashima, T., Hirose, K. and Tanabe, H. (1988) Sparing of perineal muscles in muscular dystrophies. *J. Neurol.* 236, 252.
2. Misawa, H., Takahashi, R., and Deguchi, T. (1993) Transcriptional regulation of choline acetyltransferase gene by cyclic AMP. *J. Neurochem.* 60, 1383-1387.
3. Misawa, H., Takahashi, R. and Deguchi, T. (1994) Calcium-independent release of acetylcholine from stable cell lines expressing mouse choline acetyltransferase cDNA. *J. Neurochem.* 62, 465-470.
4. Takahashi, R., Yokoji, H., Misawa, H., Hayashi, M., Hu, J. and Deguchi, T. (1994) A null mutation in the human CNTF gene is not causally related to neurological diseases. *Nat. Genet.* 7, 79-84 & 215.
5. Takahashi, R., Misawa, H. and Deguchi, T. (1994) CNTF in the embryo. *Nat. Genet.* 7, 460.
6. Deguchi, T., Misawa, H., Takahashi, R. (1994) Differentiation of cholinergic and physiological role of ciliary neurotrophic factor (CNTF). *J. Phys. (Paris)* 88, 229-233.
7. Yokoji, H., Ariyama, T., Takahashi, R., Inazawa, J., Misawa, H., Deguchi, T. (1995) cDNA cloning and chromosomal localization of the human ciliary neurotrophic factor gene. *Neurosci. Lett.* 185, 175-178.
8. Maruyama, H., Nakamura, S., Matsuyama, Z., Sakai, T., Doyu, M., Sobue, G., Seto, M., Tsujihata, M., Oh-i, T., Nishio, T., Sunohara, N., Takahashi, R., Hayashi, M., Nishino, I., Ohtake, T., Oda, T., Nishimura, M., Saida, T., Matsumoto, H., Baba, M., Kawaguchi, Y., Kakizuka, A., Kawakami, H. (1995) Molecular features of the CAG repeats and clinical manifestation of Machado-Joseph disease. *Hum. Mol. Genet.* 4, 807-812.

9. Misawa, H., Takahashi, R., Deguchi, T. (1995) Coordinate expression of vesicular acetylcholine transporter and choline acetyltransferase in sympathetic superior cervical neurones. *Neuroreport* 6, 965-968.
10. Kinoshita, M., Takahashi, R., Hasegawa, T., Komori, T., Nagasawa, R., Hirose, K. and Tanabe, H. (1996) (CTG)_n expansions in various tissues from a myotonic dystrophy patient. *Muscle Nerve* 19, 240-242.
11. Takahashi, R., Kawamura, K., Hu, J., Hayashi, M., Deguchi, T. (1996) Ciliary neurotrophic factor (CNTF) genotypes and CNTF contents in human sciatic nerves as measured by a sensitive enzyme-linked immunoassay. *J. Neurochem.* 67, 525-529.
12. Misawa, H., Matsuura, J., Oda, Y., Takahashi, R. and Deguchi, T. (1997) Human choline acetyltransferase mRNAs with different 5'-region produce a 69-kDa major translation product. *Mol. Brain Res.* 44, 323-333.
13. Tsuchiya, K., Ikeda, K., Sugihara, H., Watabiki, S., Ohbu, S., Abe, M., Takahashi, R., Tadokoro, M. and Shimada, H. (1997) Selective enlargement of the fourth ventricle in Machado-Joseph disease: with special reference to the neuroradiological and neuropathological correlation. *Neuropathology* 17, 160-167.
14. Kinoshita, M., Komori, T., Ohtake, T., Takahashi, R., Nagasawa, R. and Hirose, K. (1997) Abnormal calcium metabolism in myotonic dystrophy as shown by the Ellsworth-Howard test and its relation to CTG triplet repeat length. *J. Neurol.* 244, 613-622.
15. Maruyama, H., Kawakami, H., Kohriyama, T., Sakai, T., Doyu, M., Sobue, G., Seto, M., Tsujihata, M., Oh-i, T., Nishio, T., Sunohara, N., Takahashi, R., Ohtake, T., Hayashi, M., Nishimura, M., Saida, T., Abe, K., Itoyama, Y., Matsumoto, H. and Nakamura, S. (1997) CAG repeat length and disease duration in Machado-Joseph disease : a new clinical classification. *J. Neurol. Sci.* 152, 166-171.
16. Deveraux, Q.L.*, Takahashi, R.*, Salvesen, G.S. and Reed, J.C. (1997) X-linked IAP is a direct inhibitor of cell death proteases. *Nature* 388, 300-304. (*These authors contributed equally to this work)
17. Roy, N., Deveraux, Q.L., Takahashi, R., Salvesen, G.S. and Reed, J.C. (1997) The c-IAP-1 and c-IAP-2 proteins are direct inhibitors of specific caspases. *EMBO J.* 16, 6914-6925.
18. Zapata, J.M., Takahashi, R., Salvesen, G.S. and Reed, J.C. (1998) Granzyme release and caspase activation in activated human T-lymphocytes. *J. Biol. Chem.* 273, 6916-6920.

19. Takahashi, R., Deveraux, Q.L., Tamm, I., Welsh, K., Assa-Munt, N., Salvesen, G.S. and Reed, J.C. (1998) A single BIR domain of XIAP sufficient for inhibiting caspases. *J. Biol. Chem.* 273, 7787-7790.

Hu, J., Miyatake, F., Aizu, Y., Nakagawa, H., Nakamura, S., Tamaoka, A., Takahashi, R., Urakami, K. and Shoji, M. (1999) Angiotensin-converting enzyme genotype is associated with Alzheimer disease in the Japanese population. *Neurosci. Lett.* 277:65-67.
21. Kawata, A., Kato, S., Shimizu, T., Hayashi, H., Hirai, S., Misawa, H. and Takahashi, R. (2000) Aberrant splicing of human Cu/Zn superoxide dismutase (SOD1) RNA transcripts. *Neuroreport* 11, 2649-2653.
22. Imai, Y., Soda, M. and Takahashi, R. (2000) Parkin suppresses unfolded protein stress-induced cell death through its E3 ubiquitin-protein ligase activity. *J. Biol. Chem.* 275, 35661-35664.
23. Suzuki, Y., Nakabayashi, Y., Nakata, K., Reed, J. C. and Takahashi, R. (2001) X-linked inhibitor of apoptosis protein (XIAP) inhibits caspase-3 and -7 in distinct modes. *J. Biol. Chem.* 276, 27058-27063.
24. Suzuki, Y., Nakabayashi, Y. and Takahashi, R. (2001) Ubiquitin-protein ligase activity of X-linked inhibitor of apoptosis protein promotes proteasomal degradation of caspase-3 and enhances its anti-apoptotic effect in Fas-induced cell death. *Proc. Natl. Acad. Sci. U. S. A.* 98, 8662-8667.
25. Imai, Y., Soda, M., Inoue, H., Hattori, N., Mizuno, Y. and Takahashi, R. (2001) An unfolded putative membrane transmembrane polypeptide, which can lead to endoplasmic reticulum stress, is a substrate of Parkin. *Cell* 105, 891-902.
26. Suzuki, Y., Imai, Y., Nakayama, H., Takahashi K., Takio K. and Takahashi R. (2001) A serine protease, HtrA2, is released from the mitochondria and interacts with XIAP, inducing cell death. *Mol. Cell* 8, 613-21.
27. Ishida, K., Takeuchi, H., Takahashi, R., Yoshimura, K., Yamada, M. and Mizusawa, H. (2001) A possible novel isoform of peripheral myelin P0 protein: a target antigen recognized by an autoantibody in a patient with malignant lymphoma and peripheral neuropathy. *J. Neurol. Sci.* 188, 43-49.
28. Araya, R., Takahashi, R., and Nomura Y. (2002) Yeast two-hybrid screening using constitutive-active caspase-7 as bait in the identification of PA28 γ as an effector caspase substrate. *Cell Death Differ.* 9, 322-328.

29. Imai, Y., Soda, M., Hatakeyama, S., Akagi, T., Hashikawa, T., Nakayama, K-I. and Takahashi, R. (2002) CHIP is associated with Parkin, a gene responsible for familial Parkinson's disease, and enhances its ubiquitin ligase activity. *Mol. Cell* 10, 55-67.
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31. Urushitani, U., Kurisu, J., Tsukita, K. and Takahashi, R. (2002) Proteasomal inhibition by misfolded mutant superoxide dismutase 1 induces selective motor neuron death in familial amyotrophic lateral sclerosis. *J. Neurochem.* 83, 1030-42.
32. Yang, Y., Nishimura, I., Imai, Y., Takahashi, R. and Lu, B. (2003) Parkin suppresses dopaminergic neuron-selective neurotoxicity induced by Pael-R in *Drosophila*. *Neuron* 37, 911-24.
33. Misawa, H., Nakata, K., Toda, K., Matsuura, J., Oda, Y., Inoue, H., Taneno, M. and Takahashi, R. (2003) VChT-Cre.Fast and VChT-Cre.Slow: Postnatal expression of Cre recombinase in somatomotor neurons with different onset. *Genesis* 37 44-50.
34. Suzuki, Y., Takahashi-Niki, K., Akagi, T., Hashikawa, T. and Takahashi R (2004) The mitochondrial protease Omi-HtrA2 enhances caspase activation through multiple pathways. *Cell Death Differ.* 11, 208-16 (2003 Nov 7 [Epub ahead of print]).
35. Imai, Y., Soda, M., Murakami, T., Shoji, M., Abe, K. and Takahashi, R. (2003) A product of the human gene adjacent to parkin is a component of Lewy bodies and suppresses Pael receptor-induced cell death. *J. Biol. Chem.* 278, 51901-10 (Online publication on October 7, 2003).
36. Inoue, H., Tsukita, K., Iwasato, T., Suzuki, Y., Tomioka, M., Tateno, M., Nagao, M., Kawata, A., Saido, T.C., Miura, M., Misawa, H., Itohara, S. and Takahashi, R. (2003) The crucial role of caspase-9 in the disease progression of transgenic ALS mouse model. *EMBO J.*, 22, 6665-6674.
37. Yokota, T., Sugawara, K., Takahashi, R., Ariga, H. and Mizusawa, H. (2003) Down Regulation of DJ-1 enhances the cell death by oxidative stress, ER-stress and proteasome inhibition. *Biochem. Biophys. Res. Commun.* 312, 1342-8.
38. Yokota, T., Miyagishi, M., Hino, T., Matsumura, R., Andria, T., Urushitani, M., Rao, R. V., Takahashi, R., Bredesen, D. E., Taira, K. and Mizusawa, H. (2004) siRNA-based inhibition specific for mutant SOD1 with single nucleotide alternation in familial ALS, compared with ribozyme and DNA enzyme. *Biochem. Biophys. Res. Commun.*, 314, 283-91.

39. Murakami, T., Shoji, M., Imai, Y., Inoue, H., Kawarabayashi, T., Matsubara, E., Harigaya, Y., Sasaki, A., Takahashi, R., Abe, K. (2004) Pael-R is accumulated in Lewy bodies of Parkinson's disease. *Ann. Neurol.*, 55, 439-42.
40. Urushitani, M., Kurisu, J., Tateno, M., Hatakeyama, S., Nakayama, K.I., Kato, S., Takahashi, R. (2004) CHIP promotes proteasomal degradation of familial ALS-linked mutant SOD1 by ubiquitinating Hsp/Hsc70. *J. Neurochem.*, 90, 231-44.
41. Hosokawa, Y., Suzuki, H., Suzuki, Y., Takahashi, R., Seto, M. (2004) Anti-apoptotic function of API2-MALT1 fusion protein involved in t(11;14)(q21;q21) MALT lymphoma. *Cancer Res.*, 64, 3452-7.
42. Vyas, S., Juin, P., Hancock, D., Suzuki, Y., Takahashi, R., Triller, A., Evan, G. (2004) Differentiation dependent sensitivity to apoptogenic factors in PC12 cells. *J. Biol. Chem.*, 279, 30983-93.
43. Tateno, M., Sadakata, H., Tanaka, M., Itohara, S., Shin, R-M., Miura, M., Masuda, M., Aosaki, T., Urushitani, M., Misawa, H., Takahashi, R. (2004) Calcium-permeable AMPA receptors promote misfolding of mutant SOD1 protein and development of amyotrophic lateral sclerosis in a transgenic mouse model. *Hum. Mol. Genet.*, 13, 2183-2196
44. Yamamoto, A., Friedlein, A., Imai, Y., Takahashi, R., Kahle, P.J., Haass, C. (2005) Parkin phosphorylation and modulation of its E3 ubiquitin ligase activity. *J. Biol. Chem.*, 280, 3390-3399 (Epub 2004)
45. Hatakeyama, S., Matsumoto, M., Kamura, T., Murayama, M., Chui, D.H., Planel, E., Takahashi, R., Nakayama, K.I., Takashima, A. (2004) U-box protein carboxyl terminus of Hsc70-interacting protein (CHIP) mediates poly-ubiquitylation preferentially on four-repeat Tau and is involved in neurodegeneration of tauopathy. *J. Neurochem.*, 91, 299-307.
46. Kim, Y.J., Nakatomi, R., Akagi, T., Hashikawa, T., Takahashi, R. (2005) Unsaturated fatty acids induce cytotoxic aggregate formation of amyotrophic lateral sclerosis-linked superoxide dismutase 1 mutants. *J. Biol. Chem.*, 280, 21515-21.
47. Sekine, K., Hao, Y., Suzuki, Y., Takahashi, R., Tsuruo, T., Naito, M. (2005) HtrA2 cleaves Apollon and induces cell death by IAP-binding motif in Apollon-deficient cells. *Biochem. Biophys. Res. Commun.*, 330, 279-285
48. Yang, Y., Gehrke, S., Haque, M.E., Imai, Y., Kosek, J., Yang, L., Beal, M.F., Nishimura, I., Wakamatsu, K., Ito, S., Takahashi, R., Lu, B. (2005) Inactivation of Drosophila DJ-1 leads to impairments of oxidative stress response and PI3K/Akt signaling. *Proc. Natl. Acad. Sci. U.S.A.*, in press.

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49. Sahara, N., Murayama, M., Mizoroki, T., Urushitani, M., Imai, Y., Takahashi R., Murata, S., Tanaka, K., Takashima, A. (2005) In vivo evidence of CHIP up-regulation attenuating tau aggregation. *J. Neurochem.*, 94, 1254-1263
50. Urushitani, M., Sik, A., Sakurai, T., Nukina, N., Takahashi, R. and Julien, J-P Chromogranin-mediated Secretion of Superoxide Dismutase Mutants as a Novel Pathogenic Pathway for ALS. *Nature Neurosci.*, 9:108-18.
51. Rezgouli, M., Susens, U., Ignatov, A., Gelderblom, M., Glassmeier, G., Franke, I., Urny, J., Imai, Y., Takahashi, R., Schaller, H.C. (2006) The neuropeptide head activator is a high-affinity ligand for the orphan G-protein coupled receptor GPR37. *J. Cell Sci.* 119, 542-9.
52. Kitajima, K., Takahashi, R., Yokota, Y. (2006) Localization of Id2 mRNA in the adult mouse brain. *Brain Res.* 1073-1074, 93-102
53. Misawa, H., Nakata, K., Matuura, J., Moriwaki, Y., Kawashima, K., Shimizu, T., Shirasawa, T, and Takahashi. R. (2006) Conditional knockout of Mn superoxide dismutase in postnatal motor neurons reveals resistance to mitochondrial generated superoxide radicals. *Neurobiol. Dis.*, 23,169-77.
54. Mitsueda-Ono, T., Ikeda, A.,Noguchi, E., Takaya, S., Fukuyama, H., Shimohama, S., Takahashi, R. (2006) Epileptic polyopia with right temporal lobe epilepsy as studied by FDG-PET and MRI: A case report. *J. Neurol. Sci.*, 247, 109-11.
55. Hitomi, T., Ikeda, A., Matsumoto, R., Kinoshita, M., Taki, J., Usui, K, Mikuni N., Nagamine, T., Hashimoto, N., Shibasaki H., Takahashi, R. (2006) Generators and temporal succession of giant somatosensory evoked potentials in cortical reflex myoclonus: Epicortical recording from sensorimotor cortex *Clin. Neurophysiol.* 117:1481-6
56. Omura, T., Kaneko, M., Okuma, Y., Orba, Y., Nagashima, K., Takahashi, R., Fujitani, M., Matsumura, S., Hata, A., Kubota, K., Murahashi, K., Uehara, K. and Nomura, Y. (2006) A ubiquitin ligase HRD1 promotes the degradation of Pael receptor, a substrate of Parkin., *J. Neurochem.*, 99, 1456-69
57. Arai, R., Yoshikawa, S., Murayama, K., Imai, Y., Takahashi, R., Shirouzu, M. and Yokoyama, S. (2006) Structure of human ubiquitin-conjugating enzyme E2 G2 (UBE2G2/UBC7). *Acta Crystallograph Sect F Struct Biol Cryst Commun.* 62:330-4.
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59. Nakaji, K., Ihara, M., Takahashi, C., Itohara, S., Noda, M, Takahashi, R., Tomimoto, H. (2006) Matrix metalloproteinase-2 plays a critical role in the pathogenesis of white matter lesions after chronic cerebral hypoperfusion in rodents. *Stroke* 37:2816-23.
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61. Kinoshita, M., Ikeda, A., Taki, J., Usui, K., Mikuni, N., Takahashi, J.B., Matsumoto, R., Fukuyama, H., Hashimoto, N., Takahashi R. (2006) Heterogeneous epileptogenicity and cortical function within malformations of cortical development : A case report. *J. Neurol. Sci.* 251:129-33.
62. Kawamoto, Y., Akiguchi, I., Shirakashi, Y., Honjo, Y., Tomimoto, H., Takahashi, R., Budka, H. (2007) Expression of S100 protein and protective effect of arundic acid on the rat brain in chronic cerebral hypoperfusion. *Brain Res.* 1135, 195-200.
63. Kitao, Y, Imai, Y. Ozawa, K., Kataoka, A., Ikeda, T., Soda, M., Namekawa, K., Kiyama, H., Stern, D.M., Hori, O., Wakamatsu, K., Ito, S., Itohara, S., Takahashi, R., Ogawa, S. (2007) Pael Receptor induces death of dopaminergic neurons in the substantia nigra via endoplasmic reticulum stress and dopamine toxicity, which is enhanced under condition of parkin Inactivation. *Hum. Mol. Genet.*, 16:50-60.
64. Ohtani, R., Tomimoto, H., Wakita, H., Kitaguchi, H., Nakaji, K., Takahashi, R. (2007) Expression of S100 protein and protective effect of arundic acid on the rat brain in chronic cerebral hypoperfusion. *Brain Res.* 1135, 195-200.
65. Kawamoto Y, Akiguchi I, Shirakashi Y, Honjo Y, Tomimoto H, Takahashi R, Budka H. (2007) Accumulation of Hsc70 and Hsp70 in glial cytoplasmic inclusions in patients with multiple system atrophy. *Brain Res.* 1136:219-27.
66. Wang H, Imai Y, Kataoka A, Takahashi R. (2007) Cell type-specific upregulation of parkin in response to ER stress. *Antioxid. Redox Signal.* 9:533-42.
67. Murakami T, Moriwaki Y, Kawarabayashi T, Nagai M, Ohta Y, Deguchi K, Kurata T, Takehisa Y, Matsubara E, Ikeda M, Harigaya Y, Shoji M, Takahashi R., Abe K. (2007) PINK1, a gene product of PARK6, accumulates in {alpha}-synucleinopathy brains. *J Neurol Neurosurg Psychiatry* 78:653-4.

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70. Yamashita H, Kawamata J, Okawa K, Kanki R, Nakamizo T, Hatayama T, Yamanaka K, Takahashi R, Shimohama S. (2007) Heat-shock protein 105 interacts with and suppresses aggregation of mutant Cu/Zn superoxide dismutase; clues to a possible strategy for treating ALS. *J. Neurochem.* 102(5):1497-505
71. Iwasato, T., Katoh, H., Mishimaru, H., Ishikawa, Y., Inoue, H., Saito, Y. M., Ando, R., Iwama, M., Takahashi, R., Negishi, M., Itohara, S. (2007) Rac-GAP \square -Chimerin Regulates Motor-Circuit Formation as a Key Mediator of EphrinB3/EphA4 Forward Signaling. *Cell* 130:742-753
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3. [Takahashi, R.](#): Molecular Mechanism of Familial Parkinson’s Disease –Functional Analysis of Parkin-. Shiga Medical School International Symposium on Molecular Biology of Neurological Diseases, Otsu, Shiga, Japan (2000.10.2)
4. [Takahashi, R.](#): Molecular mechanism of familial Parkinson’s disease: Functional analysis of Parkin. Blood Research Institute Seminar, Milwaukee, Wisconsin, USA (2000.12.7)
5. [Takahashi, R.](#): An unfolded putative membrane transmembrane polypeptide, which can lead to endoplasmic reticulum stress, is a substrate of Parkin. 8th CGGH symposium, Sapporo, Japan (2001.8.9)
6. [Takahashi, R.](#) : Familial parkinson’s disease and ER stress. The Burnham Institute Seminar, La Jolla, California, USA (2001.11.14)
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17. [Takahashi, R.](#): Familial Parkinson's Disease and Endoplasmic Reticulum Stress. 3rd PICOWER-RIKEN Neuroscience Symposium NEW FRONTIERS IN BRAIN SCIENCE "From Molecules to Mind", organized by Susumu Tonegawa, MIT, Boston, USA (2003.3.27)
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19. [Takahashi, R.](#):The function of Parkin and Parkinson's disease. (Key note lecture) 10th Workshop on neurogenetics. 9th Annual Meeting of the Deutsche Gesellschaft fur Neurogenetik e.V. , Tuebingen, Germany (2003.9.21)
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21. [Takahashi, R.](#) and Suzuki, Y.: The mitochondrial protease Omi/HtrA2 promotes cell death through multiple pathways. 3rd General Meeting of the International Proteolysis Society, Nagoya, Japan (2003.11.11)
22. [Takahashi, R.](#) : The role of Parkin and its substrates in Parkinson's disease. 10th Neural Workshop Verbier, Verbier, Switzerland (2004. 1.27)
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26. [Takahashi, R.](#): Molecular mechanisms underlying Parkin-related Parkinson' s disease. UCSF Neuroscience Seminar, San Francisco, California, USA (2004. 9.22)
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28. [Takahashi, R.](#): The role of GPR37/Pael-R in the life and death of dopaminergic neurons. Neuroscience seminar at the Parkinson's Institute, Sunnyvale, California, USA (2004.10.28)
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34. Takahashi, R.: The Role of GPR37/Pael-R in the Life and Death of Dopaminergic Neurons, First Japanese German Workshop Research in Neurodegenerative diseases, Tuebingen, Germany (2006. 3. 24)
35. Takahashi, R. : “Proteasome inhibition” Workshop “controversies in the pathogenesis of PD”, 10th International Congress of Parkinson's Disease and Movement Disorders, Kyoto(2006.10.30)
36. Takahashi, R., Tateno, M., Araki, T. : SOD1 aggregates generated within motoneuronal dendrites/cell bodies move into axons before disease onset in a G93ASOD1 transgenic mouse model, 17th International Symposium on ALS/MND, Yokohama (2006.12.2),
37. Takahashi, R.:The role of Pael-R in the life and death in dopaminergic neurons. FASEB Summer research conferences - From unfolded proteins in the endoplasmic reticulum to disease-. organized by Kaufman, R.J., and Hendershot, L.M. Indian Wells, California, USA (2007. 7.31)
38. Takahashi, R.: The molecular mechanisms underlying parkin-related parkinsonism. Croucher Advanced Study Institute -Innovative therapies of movement disorders; basic and clinical sciences- Hong Kong, China (2007.11.28)
39. Takahashi, R.: The molecular mechanisms underlying parkin- related parkinsonism. International conference “Protein folding and neurodegenerative diseases”, Kyoto Japan (2009.4.7)