

# Curriculum Vitae

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## EDUCATION

1983 M.D. Aita University School of Medicine, Akita, Japan

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## ACADEMIC APPOINTMENTS

1983-1989 Neurosurgery Residency, Division of Neurosurgery, Tohoku University, School of Medicine

1989-1991 Visiting Assistant Research, Departments of Neurology and Neurosurgery  
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1991-1992 Postgraduate Research Neurosurgeon, Departments of Neurology and Neurosurgery  
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1992-1995 Assistant Professor, Department of Neurosurgery, Tohoku University School of  
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2003-2005 Associate Professor, Department of Neurosurgery, Akita University School of  
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2005- Professor and Chairman, Department of Neurosurgery,  
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2015~ Vice President of the Yamanashi University Hospital

## **COUNCIL MEMBER**

1. The Japan Neurosurgical Society: Representative Delegate, Director, Chair of Public Relation  
Committee, Chair of Research Ethics Review Committee
2. Japanese Congress of Neurological Surgeons: 30th President 2009~2010
3. The Japan Stroke Society: Director, Chair of Finance Committee
4. The Japanese Society on Surgery for Cerebral Stroke: Director, Chair of Publication Committee
5. The Japanese Society of Cerebral Blood Flow and Metabolism: Director, Chair of International  
Committee
6. Japanese Society for Skull Base Surgery: Director,
7. The Japanese Congress for Brain Tumor Surgery: Director, Chair of Ethics Review Committee
8. International Society of Cerebral Blood Flow and Metabolism:  
Chair of Education Committee 2009~2010, Publication Committee 2013~2015,  
Program Committee 2016~2017, Member of Executive Board of Directors 2017~,  
President Elect 2017~
9. World Federation of Neurosurgical Society: Chair of Education and Training Committee 2017~
10. World Stroke Organization
11. American Heart Association
12. The Congress of Neurological Surgeons (USA)

## **EDITORIAL BOARD MEMBER**

1. Japanese Journal of Neurosurgery (Jpn) : Editor-in-chief 2009~2016
2. Surgery for Cerebral Stroke (Jpn): Editor-in-Chief 2017~
3. Journal of Stroke and Cerebrovascular Diseases: Editorial Board 2005~
4. Journal of Cerebral Blood Flow and Metabolism: Editorial Board:2002 ~2013
5. Cerebrovascular Diseases : Associate editor 2014~
6. Neurologia Medico-Chirurgica : Executive Editorial Board 2011~

Reviewer Board: Brain Research, Cerebrovascular Disease, Journal of Neurosurgery, Journal of CBF and Metabolism, Journal of Neurological Science, Neuroscience Letters, Neurosurgery, Neurosurgical Review, Stroke, etc.

## BIBLIOGRAPHY

### English Original Article

1. Imaizumi S, Kinouchi H, Kurosawa K, Yoshimoto T, Suzuki J, Motomiya M: Superior protective effects of phenytoin against hypoxia in a pharmacological screening test. *Neurol Res* 10: 18-24, 1988
2. Imaizumi S, Woolworth V, Kinouchi H, Chen SF, Fishman RA, Chan PH: Liposome-entrapped superoxide dismutase ameliorates infarct volume in focal cerebral ischemia. *Acta Neurochir (Wien)* 51: 236-238, 1990
3. Kinouchi H, Imaizumi S, Yoshimoto T, Motomiya M: Phenytoin affects metabolism of free fatty acids and nucleotides in rat cerebral ischemia. *Stroke* 21: 1326-1332, 1990
4. Kinouchi H, Imaizumi S, Yoshimoto T, Yamamoto H, Motomiya M: Changes of polyphosphoinositides, lysophospholipid, and free fatty acids in transient cerebral ischemia of rat brain. *Mol Chem Neuropathol* 12: 215-228, 1990
5. Kinouchi H, Epstein CJ, Mizui T, Carlson E, Chen SF, Chan PH: Attenuation of focal cerebral ischemic injury in transgenic mice overexpressing CuZn-superoxide dismutase. *Proc Natl Acad Sci U.S.A.* 88: 11158-11162, 1991
6. Mizui T, Kinouchi H, Chan PH: Depletion of brain glutathione by buthionine sulfoximine enhances cerebral ischemic injury in rats. *Am J Physiol* 262: H313-317, 1992
7. Yang GY, Chen SF, Kinouchi H, Chan PH, Weinstein PR: Edema, cation content, and ATPase activity after middle cerebral artery occlusion in rats. *Stroke* 23: 1331-1336, 1992
8. Kinouchi H, Sharp FR, Hill MP, Koistinaho J, Sagar SM, Chan PH: Induction of 70-kDa heat shock protein and hsp70 mRNA following transient focal cerebral ischemia in the rat. *J Cereb Blood Flow and Metab* 13: 105-115, 1993

9. Kinouchi H, Sharp FR, Koistinaho J, Hicks K, Kamii H, and Chan PH: Induction of heat shock hsp 70 mRNA and HSP70 kDa protein in neurons in the 'penumbra' following focal cerebral ischemia in the rat. *Brain Res* 619: 334-338, 1993
10. Chan PH, Kinouchi H, Epstein CJ, Carlson E, Chen SF, Yang G, Gafni J: Role of superoxide dismutase in ischemic brain injury: reduction of edema and infarction in transgenic mice following focal cerebral ischemia. *Prog Brain Res* 96: 97-104, 1993
11. Sharp FR, Kinouchi H, Koistinaho J, Chan PH, Sagar SM: HSP70 heat shock gene regulation during ischemia. *Stroke* 24: 172-75, 1993
12. Kinouchi H, Sharp FR, Chan PH, Koistinaho J, Sagar SM, Yoshimoto T: Induction of c-fos, junB, c-jun, and hsp70 mRNA in cortex, thalamus, basal ganglia, and hippocampus following middle cerebral artery occlusion. *J Cereb Blood Flow and Metab* 14: 808-817, 1994
13. Kinouchi H, Sharp FR, Chan PH, Koistinaho J, Sagar SM, Yoshimoto T: Induction of NGFI-A mRNA following middle cerebral artery occlusion in rats: in situ hybridization study. *Neurosci Lett* 171: 163-166, 1994
14. Kinouchi H, Sharp FR, Chan PH, Mikawa S, Kamii H, Arai S, Yoshimoto T: MK-801 inhibits the induction of immediate early genes in cerebral cortex, thalamus, and hippocampus, but not in substantia nigra following middle cerebral artery occlusion. *Neurosci Lett* 179: 111-114, 1994
15. Kamii H, Kinouchi H, Sharp FR, Koistinaho J, Epstein CJ, Chan PH: Prolonged expression of hsp70 mRNA following transient focal cerebral ischemia in transgenic mice overexpressing CuZn-superoxide dismutase. *J Cereb Blood Flow and Metab* 14: 478-486, 1994
16. Kamii H, Kinouchi H, Sharp FR, Koistinaho J, Epstein CJ, Sagar SM, Chan PH: Expression of c-fos mRNA after a mild focal cerebral ischemia in SOD-1 transgenic mice. *Brain Res* 662: 240-244, 1994.
17. Chan PH, Epstein CJ, Kinouchi H, Kamii H, Imaizumi S, Yang G, Chen SF, Gafni J,

- Carlson E: SOD-1 transgenic mice as a model for studies of neuroprotection in stroke and brain trauma. *Ann N Y Acad Sci* 738: 93-103, 1994
18. Mikawa S, Sharp FR, Kamii H, Kinouchi H, Epstein CJ, Chan PH: Expression of c-fos and hsp70 mRNA after traumatic brain injury in transgenic mice overexpressing CuZn-superoxide dismutase. *Mol Brain Res* 33: 288-294, 1995
  19. Imaizumi S, Kurosawa K, Kinouchi H, Yoshimoto T: Effect of phenytoin on cortical Na-K ATPase activity in global ischemic rat brain. *J Neurotrauma* 12: 231-234, 1995.
  20. Arai S, Kinouchi H, Akabane A, Owada Y, Kamii H, Kawase M, Yoshimoto T: Induction of brain-derived neurotrophic factor (BDNF) and the receptor trk B mRNA following middle cerebral artery occlusion in rat. *Neurosci Lett* 211: 57-60, 1996
  21. Kondo T, Kinouchi H, Kawase M, Yoshimoto T: Astroglia cells inhibit the increasing permeability of brain endothelial cell monolayer following hypoxia/reoxygenation. *Neurosci Lett* 208: 101-104, 1996
  22. Kondo T, Kinouchi H, Kawase M, Yoshimoto T: Differential response in the release of hydrogen peroxide between astroglial cells and endothelial cells following hypoxia/reoxygenation. *Neurosci Lett* 215: 103-106, 1996
  23. Mikawa S, Kinouchi H, Kamii H, Gobbel GT, Chen SF, Carlson E, Epstein CJ, Chan PH: Attenuation of acute and chronic damage following traumatic brain injury in copper, zinc-superoxide dismutase transgenic mice. *J Neurosurg* 85: 885-891, 1996
  24. Kawase M, Kinouchi H, Kato I, Akabane A, Kondo T, Arai S, Fujimura M, Okamoto H, Yoshimoto T: Inducible nitric oxide synthase following hypoxia in rat cultured glia cells. *Brain Res* 738: 319-322, 1996
  25. Kamii H, Mikawa S, Murakami K, Kinouchi H, Yoshimoto T, Reola L, Carlson E, Epstein CJ, Chan PH: Effects of nitric oxide synthase inhibition on brain infarction in SOD-1 transgenic mice following transient focal cerebral ischemia. *J Cereb Blood Flow Metab* 16: 1153-1157, 1996

26. Sato S, Ogasawara K, Kinouchi H, Koshu K, Yoshimoto T: Probable brain abscess presenting as a high uptake lesion on thallium-201 single photon emission computed tomography--case report. *Neurol Med Chir (Tokyo)* 37: 775-8, 1997
27. Kinouchi H, Kamii H, Epstein CJ, Yoshimoto T, Chan PH. Role of superoxide dismutase in ischemic brain injury: A study using SOD-1 transgenic mice. *Cell Mol Neurobiol* 18: 609-620, 1998
28. Kinouchi H, Mizoi K, Takahashi A, Nagamine Y, Koshu K, Yoshimoto T. Dural arteriovenous shunts at the craniocervical junction. *J Neurosurg* 89: 755-761, 1998
29. Kinouchi H, Arai S, Kamii H, Izaki K, Kunizuka H, Mizoi K, Yoshimoto T: Induction of RhoB mRNA following middle cerebral artery occlusion in the rat. *NeuroReport* 10, 1055-1059, 1999
30. Kamii H, Katoh I, Kinouchi H, Chan PH, Epstein CJ, Akabane A, Okamoto H, Yoshimoto T: Amelioration of vasospasm after subarachnoid hemorrhage in transgenic mice overexpressing CuZn-superoxide dismutase. *Stroke* 30:867-71, 1999
31. Kunizuka H, Kinouchi H, Arai S, Izaki K, Mikawa S, Kamii H, Sugawara T, Suzuki A, Mizoi K, Yoshimoto T: Activation of Arc gene, a dendritic immediate early gene, by middle cerebral artery occlusion in rat brain. *Neuroreport* 10: 1717-1722, 1999
32. Kinouchi H, Huang H, Arai S, Mizoi K, and Yoshimoto T: Induction of Cyclooxygenase-2 mRNA after Transient and Permanent Middle Cerebral Artery Occlusion in the Rat - Comparison with c-fos mRNA Using In Situ Hybridization -. *J Neurosurg* 91: 1005-1012, 1999
33. Utsunomiya, Kinouchi H, Kayama T, Yoshimoto T: distant metastasis of liposarcoma to the dura and skull: a case report. *Br J Neurosurg* 13: 520-522, 1999
34. Okubo A, Kinouchi H, Owada Y, Kunizuka H, Itoh H, Izaki K, Kondo H, Tashima Y, Yoshimoto T, Mizoi K: Simultaneous induction of mitochondrial heat shock protein mRNAs in rat forebrain ischemia. *Mol Brain Res* 84: 127-34, 2000
35. Sasajima T, Kinouchi H, Tomura N, Watarai J, Mizoi K: High uptake of

- 123I-metaiodobenzylguanidine related to olfactory neuroblastoma revealed by single-photon emission CT. *AJNR* 21:717-720, 2000.
36. Sasajima T, Kinouchi H, Tomura N, Watarai J, Mizoi K: Innovative approach in the diagnosis of medulloblastoma in which the 123I-metaiodobenzylguanidine single-photon emission computerized tomography technique is used. Case illustration. *J Neurosurg* 93:145, 2000
  37. Izaki K, Kinouchi H, Watanabe K, Owada Y, Okubo A, Itoh H, Kondo H, Tashima Y, Tamura S, Yoshimoto T, Mizoi K: Induction of mitochondrial heat shock protein 60 and 10 mRNAs following transient focal cerebral ischemia in the rat. *Mol Brain Res* 88:14-25, 2001
  38. Kinouchi H, Mikawa S, Suzuki A, Sasajima T, Tomura N, Mizoi K: Extradural neuromas at the petrous apex: report of two cases. *Neurosurgery* 49: 999-1003, 2001
  39. Kinouchi H, Futawatari k, Mizoi K, Higashiyama N, Kojima H, Sakamoto T: Endoscope-assisted clipping of a superior hypophyseal artery aneurysm. *J Neurosurg* 96: 788-791, 2002
  40. Kinouchi H, Mizoi K, Nagamine Y, Yanagida N, Mikawa S, Suzuki A, Sasajima T, Yoshimoto T: Anterior paraclinoid aneurysms. *J Neurosurg* 96: 1000-1005, 2002
  41. Naitoh Y, Sasajima T, Kinouchi H, Mikawa S, Mizoi K: Medulloblastoma with extensive nodularity: single photon emission CT study with iodine-123 metaiodobenzylguanidine. *Am J Neuroradiol* 23: 1564-1567, 2002
  42. Matsumori M, Itoh H, Toyoshima I, Komatsuda A, Sawada K, Fukuda J, Tanaka T, Okubo A, Kinouchi H, Mizoi K, Hama T, Suzuki A, Hamada F, Otaka M, Shoji Y, Takada G: Characterization of the 105-kDa molecular chaperone. Identification, biochemical properties, and localization. *Eur J Biochem* 269: 5632-5641, 2002
  43. Kinouchi H, Mizoi K, Nagamine Y, Yanagida N, Mikawa S, Suzuki A, Sasajima T, Yoshimoto T: Anterior paraclinoid aneurysms. *J Neurosurg* 96: 1000-1005, 2002



44. Kinouchi H, Mizoi K, Takahashi A, Ezura M, Yoshimoto T : Combined embolization and microsurgery for cerebral arteriovenous malformation. *Neurol Med Chir(Tokyo)* 42: 372-378, 2002
45. Tamura S, Kinouchi H, Izaka K, Okubo A, Sugawara T, Kunizuka H, Mizoi K : Induction of heat shock protein 40 and GrpE mRNAs following transient focal cerebral ischemia in the rat. *Brain Res* 960: 277-281, 2003
46. Hayashi T, Saito A, Okubo S, Drake MF, Dodd RL, Nishi T, Maier CM, Kinouchi H, Chan PH: Damage to the endoplasmic reticulum is implicated in ischemic neuronal cell death. *J Cereb Blood Flow Metab* 23: 1117-1128, 2003
47. Kinouchi H, Yanagisawa T, Suzuki A, Ohta T, Hirano Y, Suhawara T, Sasajima T, Mizoi K: Simultaneous microscopic and endoscopic monitoring during surgery for internal carotid artery aneurysms. *J Neurosurg* 101: 989-995, 2004
48. Kinouchi H, Ogasawara K, Shimizu H, Mizoi K, Yoshimoto T: Prevention of symptomatic vasospasm after aneurismal subarachnoid hemorrhage by intraoperative cisternal fibrinolysis using tissue-type plasminogen activator combined with continuous cisternal drainage. *Neurol Med Chir (Tokyo)* 44: 569-574, 2004
49. Yanagisawa T, Mizoi K, Sugawara T, Suzuki A, Ohta T, Higashiyama N, Takahashi M, Sasajima T, Kinouchi H: Direct Repair of a Blisterlike Aneurysm on Internal Carotid Artery with Vascular Closure Staple Clips. *J Neurosurg* 100 : 146-149, 2004
50. Sugawara T, Itoh Y, Hirano Y, Higashiyama N, Shimada Y, Kinouchi H, Mizoi K: Novel dural closure technique using polyglactin acid sheet prevents cerebrospinal fluid leakage after spinal surgery. *Neurosurgery* 57:290-294. 2005
51. Tomura N, Omachi K, Takahashi S, Sakuma I, Otani T, Watarai J, Ishikawa K, Kinouchi H, Mizoi K: Comparison of technetium Tc 99m hexamethylpropyleneamine oxime single photon emission tomograph with stump pressure during the balloon occlusion test of the

- internal carotid artery. *AJNR* 26: 1937-1942, 2005
52. Horikoshi T, Asari Y, Watanabe A, Uchida M, Umeda T, Kolzumi H, Kinouchi H: Unsuccessful tracer injection in radionuclide cisternography revisited. *Ann Nucl Med* 20: 333-336, 2006
53. Sakuma I, Tomura N, Kinouchi H, Takahashi S, Otani T, Watari J, Mizoi K: Postoperative three-dimensional CT angiography after cerebral aneurysm clipping with titanium clips: detection with single detector CT. Comparison with intra-arterial digital subtraction angiography. *Clin Radiol* 61: 505-512, 2006
54. Sakuma I, Takahashi S, Tomura N, Kinouchi H: Dural arteriovenous fistulas of the cavernous sinus with onset intracerebral hemorrhage mimicking hypertensive putaminal hemorrhage. *Acta Neurochir(Wien)* 148: 915-918, 2006
55. Sasajima T, Kinouchi H, Naitoh Y, Tomura N, Watarai J, Mizoi K: 123I-metaiodo-benzylguanidine single-photon emission computerized tomography in brain tumors - a preliminary study. *J Neurooncol* 77: 185-191, 2006
56. Takahashi S, Sakuma I, Otani T, Yasuda K, Tomura N, Watarai J, Kinouchi H, Yanagisawa T, Mizoi K : Carotid-cavernous fistula associated with an intracranial lesion caused by cortical venous reflux. *Interv Neuroradiol* 12:167-173, 2006
57. Watanabe A, Horikoshi T, Uchida M, Koizumi H, Yamazaki H, Kinouchi H: Subdural effusions in the posterior fossa associated with spontaneous intracranial hypotension. *Can J Neurol Sci* 33:205-208, 2006
58. Omae T, Sugawara T, Oda M, Yamaguchi S, Mizoi K, Kinouchi H: C-fos expression in exofocal regions following experimental middle cerebral artery occlusion models. *秋田医学* 34(3):13-21, 2007
59. Horikoshi T, Imamura S, Matsuzaki Z, Umeda T, Uchida M, Mitsuka K, Kinouchi H: Patulous Eustachian tube in spontaneous intracranial hypotension syndrome. *Headache* 47:131-135, 2007

60. Umemura K, Kato I, Hirashima Y, Ishii Y, Inoue T, Aoki J, Kono N, Oya T, Hayashi N, Hamada H, Endo S, Oda M, Arai H, Kinouchi H, Hiraga K: Neuroprotective role of transgenic PAF-acetylhydrolase II in mouse models of focal cerebral ischemia. *Stroke* 38: 1063-1068, 2007
61. Oda M, Kure S, Sugawara T, Yamaguchi S, Kojima K, Shinka T, Sato K, Narisawa A, Aoki Y, Matsubara Y, Omae T, Mizoi K, Kinouchi H: Direct correlation between ischemic injury and extracellular glycine concentration in mice with genetically altered activities of the glycine cleavage multienzyme system. *Stroke* 38: 2157-2164, 2007
62. Sugawara T, Hirano Y, Itoh Y, Kinouchi H, Takahashi S, Mizoi K: Angiographically occult spinal dural arteriovenous fistula located using selective computed tomography angiography. Case report. *J Neurosurg Spine* 7:215-20, 2007
63. Yoshioka H, Horikoshi T, Aoki S, Hori M, Ishigame K, Uchida M, Sugita M, Araki T, Kinouchi H: Diffusion tensor tractography predicts motor functional outcome in patients with spontaneous intracerebral hemorrhage. *Neurosurgery* 62: 97-103, 2008
64. Watanabe A, Horikoshi T, Uchida M, Kinouchi H: Internal carotid artery occlusion manifesting only as oculomotor nerve palsy. *J Stroke Cerebrovasc Dis* 17:433-5, 2008
65. Watanabe A, Kinouchi H, Horikoshi T, Uchida M, Ishigame K: Effect of intracranial pressure on the diameter of the optic nerve sheath. *J Neurosurg* 109: 255-258, 2008
66. Watanabe A, Horikoshi T, Uchida M, Ishigame K, Kinouchi H: Decreased diameter of the optic nerve sheath associated with CSF hypovolemia. *AJNR Am J Neuroradiol* 29:863-864, 2008
67. Mitsuka K, Horikoshi T, Watanabe A, Kinouchi H: Tethered cord syndrome in identical twins. *Acta Neurochir (Wien)* 151:85-88, 2009

68. Sugita M, Kinouchi H, Nishiyama Y, Kanemaru K, Yoshioka H, Horikoshi T: Direct clipping of a thrombosed giant cerebral aneurysm after thrombectomy without bleeding to minimize the temporary occlusion time-technical case report-.Neurol Med Chir (Tokyo) 49:600-603, 2009
69. Watanabe A, Horikoshi T, Uchida M, Koizumi H, Yagishita T, Kinouchi H: Diagnostic value of spinal MR imaging in spontaneous intracranial hypotension syndrome. AJNR Am J Neuroradiol 30:147-151, 2009
70. Yoshioka H, Sugita M, Kinouchi H: Neuroprotective effects of group II metabotropic glutamate receptor agonist DCG-IV on hippocampal neurons in transient forebrain ischemia. Neurosci Lett 461:266-270, 2009
71. Horikoshi T, Watanabe A, Uchida M, Kinouchi H: Effectiveness of an epidural blood patch for patients with intracranial hypotension syndrome and persistent spinal epidural fluid collection after treatment. J Neurosurg 113:940-946, 2010
72. Kawataki T, Sato E, Kato T, Sato T, Horikoshi T, Kinouchi H: A cortical dysembryoplastic neuroepithelial tumor initially occurring in the periventricular white matter. J Neurosurg Pediatr 6:600-603, 2010
73. Kawataki T, Sato E, Sato T, Kinouchi H: Anaplastic ganglioglioma with malignant features in both neuronal and glial components--case report. Neurol Med Chir (Tokyo) 50:228-231, 2010
74. Sato T, Sugiyama T, Kawataki T, Sato E, Horikoshi T, Sugita K, Kinouchi H: Clear cell meningioma causing Castleman syndrome in a child. J Neurosurg Pediatr 5: 622-625, 2010
75. Maruyama T, Mimura K, Sato E, Watanabe M, Mizukami Y, Kawaguchi Y, Ando T, Kinouchi H, Fujii H, Kono K: Inverse correlation of HER2 with MHC class I expression on oesophageal squamous cell carcinoma. Br J Cancer 103:552-559, 2010
76. Watanabe A, Omata T, Koizumi H, Nakano Y, Takeuchi N, Kinouchi H : Bony carotid canal hypoplasia in patients with moyamoya disease. J Neurosurg Pediatr 5: 591-594, 2010

77. Kuroda K, Kinouchi H, Kanemaru K, Wakai T, Senbokuya N, Horikoshi T: Indocyanine green videoangiography to detect aneurysm and related vascular structures buried in subarachnoid clots. *J Neurosurg* 114: 1054-1056, 2011
78. Wakai T, Yoshioka H, Yagi T, Kato T, Kinouchi H: Effects of valsartan on neuroprotection and neurogenesis after ischemia. *Neuroreport* 22:385-390, 2011
79. Sato T, Horikoshi T, Watanabe A, Uchida M, Ishigame K, Araki T, Kinouchi H: Evaluation of cervical myelopathy using apparent diffusion coefficient measured by diffusion-weighted imaging. *AJNR Am J Neuroradiol.* 33:388-392, 2012
80. Satoh K, Fukasawa I, Kanemaru K, Yoda S, Kimura Y, Inoue O, Ohta M, Kinouchi H, Ozaki Y: Platelet aggregometry in the presence of PGE1 provides a reliable method for cilostazol monitoring. *Thromb Research.*130: 616-621, 2012
81. Abe K, Yamashita T, Takizawa S, Kuroda S, Kinouchi H, Kawahara N: Stem cell therapy for cerebral ischemia: from basic science to clinical applications. *J Cereb Blood Flow Metab.*32:1317-1331, 2012
82. Takeuchi N, Horikoshi T, Kinouchi H, Watanabe A, Yagi T, Mitsuka K, Senbokuya N: Diagnostic value of the optic nerve sheath subarachnoid space in patients with intracranial hypotension syndrome. *J Neurosurg.* 117:372-377, 2012
83. Nishiyama Y, Kinouchi H, Senbokuya N, Kato T, Kanemaru K, Yoshioka H, Horikoshi T: Endoscopic indocyanine green video angiography in aneurysm surgery: an innovative method for intraoperative assessment of blood flow in vasculature hidden from microscopic view. *J Neurosurg* 117:302-308, 2012
84. Senbokuya N, Kanemaru K, Kinouchi H, Horikoshi T.: Giant serpentine aneurysm of the distal anterior cerebral artery. *J Stroke Cerebrovasc* 117: 302-308, 2012
85. Committee for Guidelines for Management of Aneurysmal Subarachnoid Hemorrhage, Japanese Society on Surgery for Cerebral Stroke: Evidence-based guidelines for the

- management of aneurysmal subarachnoid hemorrhage. English Edition. Neurol Med Chir (Tokyo) 5 :355-429, 2012
86. Kato T, Yagi T, Yoshioka H, Ogiwara M, Horikoshi T, Kinouchi H.: Simultaneous Onset of Anterior and Middle Cerebral Artery Dissections with an Old Vertebral Artery Dissection. J Stroke Cerebrovasc 22:1229-1232, 2013
  87. Senbokuya N, Kinouchi H, Kanemaru K, Ohashi Y, Fukamachi A, Yagi S, Shimizu T, Furuya K, Uchida M, Takeuchi N, Nakano S, Koizumi H, Kobayashi C, Fukasawa I, Takahashi T, Kuroda K, Nishiyama Y, Yoshioka H, Horikoshi T.: Effects of cilostazol on cerebral vasospasm after aneurysmal subarachnoid hemorrhage: a multicenter prospective, randomized, open-label blinded end point trial. J Neurosurg 118:121-30,2013
  88. Mitsuka K, Kawataki T, Satoh E, Asahara T, Horikoshi T, Kinouchi H.: Expression of Indoleamine 2,3-dioxygenase and Correlation with Pathological Malignancy in Gliomas. Neurosurgery 72:1031-1038, 2013
  89. Kuroda K, Kinouchi H, Kanemaru K, Nishiyama Y, Ogiwara M, Yoshioka H, Horikoshi T.: Intra-arterial Injection Fluorescein Videoangiography in Aneurysm Surgery. Neurosurgery 72(2 Suppl Operative): 141-150, 2013
  90. Kanemaru K, Nishiyama Y, Yoshioka H, Satoh K, Hashimoto K, Hanihara M, Horikoshi T, Ozaki Y, Kinouchi H: In-stent thrombosis after carotid artery stenting despite sufficient antiplatelet therapy in a bladder cancer patient. J Stroke Cerebrovasc 22:1196-1200, 2013.
  91. Yoshioka H, Katsu M, Sakata H, Okami N, Wakai T, Kinouchi H, Chan PH: The role of PARL and HtrA2 in striatal neuronal injury after transient global cerebral ischemia. J Cereb Blood Flow Metab 33(11):1658-1665, 2013
  92. Yoshioka H, Kinouchi H, Nishiyama Y, Kanemaru K, Yagi T, Hanihara M, Horikoshi T: Advantage of microscope integrated for both indocyanine green and fluorescein

- videoangiography on aneurysmal surgery: case report. *Neurol Med Chir (Tokyo)* 54:192-195, 2013
93. Horikoshi T, Kinouchi H: Response. *J Neurosurg* 118:705. 2013
94. Wakai T, Sakata H, Narasimhan P, Yoshioka H, Kinouchi H, Chan PH: Transplantation of neural stem cells that overexpress SOD1 enhances amelioration of intracerebral hemorrhage in mice. *J Cereb Blood Flow Metab* 34:441-449, 2013
95. Watanabe M, Ishigame K, Nishiyama Y, Kinouchi H, Araki T.:A rare case of focal multiple medullary venous malformations with ipsilateral cerebral surface varix. *Magn Reson Med Sci* 13:51-54.2014
96. Yoshioka H, Katsu M, Sakata H, Okami N, Wakai T, Kinouchi H, Chan PH: The role of PARL and HtrA2 in striatal neuronal injury after transient global cerebral ischemia. *J Cereb Blood Flow Metab* 33:1658-1665, .2013
97. Yoshioka H, Kinouchi H, Nishiyama Y, Kanemaru K, Yagi T, Hanihara M, Horikoshi T: Advantage of microscope integrated for both indocyanine green and fluorescein videoangiography on aneurysmal surgery: case report. *Neurol Med Chir (Tokyo)* 54: 192-195, 2014
98. Wakai T, Sakata H, Narasimhan P, Yoshioka H, Kinouchi H, Chan PH: Transplantation of neural stem cells that overexpress SOD1 enhances amelioration of intracerebral hemorrhage in mice. *J Cereb Blood Flow Metab* 34:441-449, 2014
99. Watanabe M, Ishigame K, Nishiyama Y, Kinouchi H, Araki T: A rare case of focal multiple medullary venous malformations with ipsilateral cerebral surface varix. *Magn Reson Med Sci* 13:51-54, 2014
100. Kanemaru K, Ezura M, Nishiyama Y, Yagi T, Yoshioka H, Fukumoto Y, Horikoshi T, Kinouchi H: Anchor coil technique for arteriovenous fistula embolization. A technical note. *Interv Neuroradiol*20:283-286, 2014.

101. Hirayama Y, Ikeda-Matsuo Y, Notomi S, Enaida H, Kinouchi H, Koizumi S: Astrocyte-mediated ischemic tolerance. *J Neurosci* 35:3794-3805, 2015.
102. Kanemaru K, Kinouchi H, Yoshioka H, Yagi T, Wakai T, Hashimoto K, Fukumoto Y, Umeda T, Onishi H, Nishiyama Y, Horikoshi T: Cerebral hemodynamic disturbance in dural arteriovenous fistula with retrograde leptomeningeal venous drainage: a prospective study using (123)I-iodoamphetamine single photon emission computed tomography. *J Neurosurg* 123:110-117, 2015
103. Kanemaru K, Yoshioka H, Yagi T, Wakai T, Hashimoto K, Fukumoto Y, Suzuki K, Tateoka T, Kazama H, Kinouchi H: Hypoglossal canal dural arteriovenous fistula embolized under precise anatomical evaluation by selective intra-arterial injection computed tomography angiography. *Interv Neuroradiol.* 21:88-93, 2015
104. Yoshioka H, Kinouchi H: The Roles of Endoscope in Aneurysmal Surgery. *Neurol Med Chir (Tokyo)* 55:469-478, 2015
105. Hanihara M, Kawataki T, Oh-Oka K, Mitsuka K, Nakao A, Kinouchi H: Synergistic antitumor effect with indoleamine 2,3-dioxygenase inhibition and temozolomide in a murine glioma model. *J Neurosurg*124:1594-1601, 2015.
106. Wakai T, Narasimhan P, Sakata H, Wang E, Yoshioka H, Kinouchi H, Chan PH: Hypoxic preconditioning enhances neural stem cell transplantation therapy after intracerebral hemorrhage in mice. *J Cereb Blood Flow Metab* 36:2134-2145, 2016
107. Suzuki K, Kawataki T, Kanemaru K, Mitsuka K, Ogiwara M, Sato H, Kinouchi H: A case of complete clearance of chronic subdural hematoma accompanied by recurrent glioblastoma multiforme after administration of bevacizumab. *Neurosurg Rev* 39:525-529, 2016
108. Tateoka T, Onda H, Hirota K, Kasuya H, Shinohara T, Kinouchi H, Akagawa H: Unusual case of cerebral small vessel disease with a heterozygous nonsense mutation in HTRA1. *J Neurol Sci* 362:144-146, 2016
109. Yanagisawa T, Kinouchi H, Sasajima T, Shimizu H: Long-Term Follow-Up for a Giant Basilar Trunk Aneurysm Surgically Treated by Proximal Occlusion and External Carotid



Artery to Posterior Cerebral Artery Bypass Using a Saphenous Vein Graft.. J Stroke Cerebrovasc 25: e212-e213. 2016

110.Hashimoto K, Kanemaru K, Yoshioka H, Nishiyama Y, Yagishita T, Kuroda K, Horikoshi T, Kinouchi H. A rare case of neurofibromatosis type 1 associated with vertebral arteriovenous fistula and moyamoya syndrome. Journal of Neuroendovascular Therapy. 11: 214-219, 2017

111.Hashimoto K, Kinouchi H, Yoshioka H, Kanemaru K, Ogiwara M, Yagi T, Wakai T, Fukumoto Y. Efficacy of endoscopic fluorescein video angiography in aneurysm surgery -Novel and innovative assessment of vascular blood flow in the dead angles of the microscope. Oper Neurosurg 13: 471-481, 2017

## English Book Chapter

1. Kinouchi H, Imaizumi S, Suzuki J, Yoshimoto T, Kurosawa K, Motomiya M: Effect of phenytoin on free fatty acid liberation and nucleotide metabolism in cerebral ischemia. In "Controversies in EIAB for Cerebral Ischemia". (eds.) Gagaliardi R and Benvenuti L, pp 389-395, Monduzzi Editore, Florence, 1986
2. Uenohara H, Imaizumi S, Kinouchi H, Tominaga T, Yoshimoto T, Suzuki J: Ischemic Brain Damage by Free Radical Reaction - Correlation with Lipoperoxidation, Energy Metabolism and Brain Edema. In "Controversies in EIAB for Cerebral Ischemia". (eds.) Gagaliardi R and Benvenuti L, pp 397-402, Monduzzi Editore, Florence, 1986
3. Kinouchi H, Imaizumi S, Tominaga T, Yoshimoto T, Suzuki J. The effect of vitamin E on lipid and free radical which alter in cerebral ischemia. In "Clinical and Nutritional Aspect of Vitamin E". (eds.) Hayashi O and Mino M, pp 359-362, Elsevier Science Publishers, Amsterdam, 1987
4. Imaizumi S, Kinouchi H, Tominaga T, Yoshimoto T, Suzuki J: Biochemical events in the ischemic brain and pharmacological basis of mannitol, vitamin E, glucocorticoid and phenytoin. In "Advances in Surgery for Cerebral Stroke: Proceeding of the International Symposium on Surgery for Cerebral Stroke". (ed.) Suzuki J, pp 257-263, Springer-Verlag, Tokyo, 1987
5. Imaizumi S, Tominaga T, Uenohara H, Kinouchi H, Yoshimoto T, Suzuki J: Detection of free radicals in cerebral tissue and their relation to cerebral hypoxia/ischemia. In "Mechanisms of Cerebral Hypoxia and Stroke". (ed.) Smojen G, pp 321-335, Plenum Publishing, New York, 1988
6. Imaizumi S, Kinouchi H, Tominaga T, Fujita Y, Yoshimoto T: Free radicals and lipid changes in cerebral ischemia. In "Cerebral Ischemia and Resuscitation". (ed.) Shurr A, pp 151-164, CRC Press, Boca Raton, 1990
7. Chan PH, Epstein CJ, Kinouchi H, Imaizumi S, Carlson E, Chen SF: Role of superoxide dismutase in ischemic brain injury: reduction of edema and infarction in transgenic

- mice following focal cerebral ischemia. In "Molecular Mechanisms of Ischemic Brain Damage, Progress in Brain Research". (eds.) Kogure K and Siesjo BK, pp106-117, Elsevier Science, Amsterdam, 1992
8. Epstein CJ, Chan PH, Cadet JL, Carlson E, Chen S, Chu S, Farn S, Jackson-Lewis V, Kinouchi H, Kostic V, Kujirai K, Mizui T, Naini A, Przedborski S, Yang GY: Resistance of SOD-transgenic mice to oxidative stress. In "Gene Transfer and Therapy in the Nervous System". (eds.) Gage F and Christen Y, pp106-117, Springer-Verlag, Berlin, 1992
  9. Sharp FR, Kinouchi H, Koistinaho J, Chan PH, Sagar SM: Heat shock gene expression as a marker of ischemic and other types of injury. In "Cerebral Ischemia and Basic Mechanisms". (eds.) Hartmeann A, Yatsu F, and Kuschinsky W, pp292-300, Springer-Verlag, Berlin, 1994
  10. Chan PH, Epstein CJ, Kinouchi H, Kamii H, Gafni J, Chen SF, Carlson E: SOD-1 Tg mice: a model for the study of cerebral ischemia. In "Pharmacology of Cerebral Ischemia". (eds.) Krieglestein J and Oberpicker-Schwenk H, pp277-286, Wissenschaftliche Verlagsgesellschaft mbH, Stuttgart, 1994
  11. Yoshimoto T, Takaashi A, Kinouchi H, Mizoi K, Jokura H: Role of embolization in the management of arteriovenous malformations. *Clinical Neurosurg* 42: 313-327, 1995
  12. Chan PH, Epstein CJ, Li Y, Huang JT, Carlson E, Kinouchi H, Yang G, Kamii H, Mikawa S, KondGobbel G, Reola L, Chen SF, Chan T, Gafni J, Transgenic mice and knock out mutants in the study of oxidative stress in brain injury. *J Neurotrauma* 12, 815-824, 1995.
  13. Sharp FR, Kinouchi H, Massa S, Swanson RA, Koistinaho J, Sagar SM, Chan PH, Yoshimoto T: Alteration of stress gene and immediate early gene expression following focal ischemia in brain. In "Cerebrovascular Diseases". (eds.) Moskowitz MA and Caplan LR, pp219-229, Butterworth-Heinemann, Newton, 1995
  14. Kamii H, Kinouchi H, Chen S, Sharp FR, Epstein CJ, Chan PH: A model of transient focal cerebral ischemia in the mouse. In "Membrane-Linked Diseases Vol 4". (ed.)

- Ohnishi ST, pp139-146, CRC Press, Boca Raton, 1995
15. Kamii H, Kinouchi H, Chen S, Sharp FR, Epstein CJ, Chan PH: SOD-1 transgenic mice: An application to the study of ischemic brain injury. In "Membrane-Linked Diseases, Vol 4". (ed.) Ohnishi ST, pp422-431, CRC Press, Boca Raton, 1995
  16. Chan PH, Epstein CJ, Kinouchi H, Kamii H, Chen SF, Carlson E, Gafni J, Yang G, Reola L: Neuroprotective role of CuZn-superoxide dismutase in ischemic brain damage. In "Cellular and Molecular Mechanism of Ishcemic Brain Damage". (eds.) Siesjo BK and Wielock T, pp271-289, Raven Press, Philadelphia, 1996
  17. Chan PH, Epstein CJ, Kinouchi H, Kamii H, Chen SF, Carlson E, Gafni J, Yang G, Reola L: Neuroprotective role of CuZn-superoxide dismutase in ischemic brain damage. Adv Neurol 71, 271-280, 1996
  18. Kinouchi H, Yoshimoto T, Kondo T, Kamii H, Huang TT, Reaume AG, Scott RW, Epstein CJ, Chan PH: The application of transgene technology to cerebral stroke research: SOD-1 transgenic and knockout mice. In CVD GRAND ROUND SERIES VOL. 4 EXPERIMENTAL MODEL GRAND ROUND. (Ed.) Ohta T, pp 125-137, Neuron Publishing, Tokyo, 1997
  19. Kinouchi H, Nagamine Y, Fujii Y, Takahashi A, Ezura M, Mizoi K, Yoshimoto T: Surgical treatment combined with balloon angioplasty for ruptured aneurysm with cerebral vasospasm on admission. In: Cerebral Vasospasm IV(Proceeding of the VIth International Conference on Cerebral Vasospasm Sydney 1997). (Ed) Dorsch N, pp280-281, Oslington Consulting PTY, Leichhardt, Australia, 1999
  20. Yoshimoto T, Kinouchi H, Takahashi A, Shirane R: Prevention of vasospasm by intrathecal TPA injection following intra-aneurysmal GDC embolization. Cerebral Vasospasm IV(Proceeding of the VIth International Conference on Cerebral Vasospasm Sydney 1997). (Ed) Dorsch N, pp313-315, Oslington Consulting PTY, Leichhardt, Australia, 1999
  21. Mizoi K, Kinouchi H, Takahashi A, Yoshimoto T: Intraoperative endovascular techniques in the management of intracranial aneurysms. in "Operative Neurosurgical Techniques:

Indications, Methods, and Results, Forth Edition" (eds) Schmidek HH and Sweet WH, pp1221-1228, Saunders WB, Philadelphia, 2000

### **English Review Article**

1. Yoshimoto T, Takaashi A, Kinouchi H, Mizoi K, Jokura H: Role of embolization in the management of arteriovenous malformations. *Clinical Neurosurg* 42: 313-327, 1995
2. Chan PH, Epstein CJ, Li Y, Huang JT, Carlson E, Kinouchi H, Yang G, Kamii H, Mikawa S, Kondo T, Chen SF, Chan T, Gafni J, Gobbel G, Reola L: Transgenic mice and knock out mutants in the study of oxidative stress in brain injury. *J Neurotrauma* 12, 815-824, 1995.
3. Chan PH, Epstein CJ, Kinouchi H, Kamii H, Chen SF, Carlson E, Gafni J, Yang G, Reola L: Neuroprotective role of CuZn-superoxide dismutase in ischemic brain damage. *Adv Neurol* 71, 271-280, 1996
4. Kinouchi H, Kamii H, Mikawa S, Epstein CJ, Yoshimoto T, Chan PH. Role of superoxide dismutase in ischemic brain injury: A study using SOD-1 Transgenic mice. *Cell Mol Neurobiol* 18:609-620, 1998