

Profile of the Mihara Prize 2002 Awardee

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1965-1967 The University of Tokyo, Faculty of Culture

1967-1972 The University of Tokyo, Faculty of Medicine

Training in Neurosurgery

1972-1973 Junior Resident, Department of Neurosurgery, University of Tokyo Hospital

1978-1979 Senior Resident, Department of Neurosurgery, University of Tokyo Hospital

Research and Professional experience

1979-1980 Staff Neurosurgeon, Dept. of Neurosurgery, Univ. of Tokyo Hospital

1980-1982 Visiting fellow, Lab. of Neuropathology and Neuroanatomical Sciences, NIH, USA

1982-1986 Assistant Professor, Dept. of Neurosurgery, Teikyo Univ. School of Medicine

1986-1994 Associate Professor, Dept. of Neurosurgery, Teikyo Univ. School of Medicine

1994-2005 Professor, Dept. of Neurosurgery, Faculty of Medicine, the Univ. of Tokyo

1999-2003 Dean, Faculty of Medicine and Graduate School of Medicine, the Univ. of

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Licenses

1972 M.D. (No. 214954)
1982 Japanese Board of Neurosurgery (No. 1001)
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BIBLIOGRAPHY

1. Furuya K, Kawahara N, Yamakawa Y, Kishida H, Hachiya NS, Nishijima M, Kirino T, Kaneko K: Intracerebroventricular delivery of dominant negative prion protein in a mouse model of iatrogenic Creutzfeldt-Jakob disease after dura graft transplantation.. *Neurosci Lett* 402:222-226,2006
2. Hara T, Kawahara N, Tsuboi K, Shibahara J, Ushiku T, Kirino T: Sarcomatous transformation of clival chordoma after charged-particle radiotherapy. Report of two cases.. *J Neurosurg* 105:136-141,2006
3. Morita A, Shin M, Sekhar LN, Kirino T: Endoscopic microneurosurgery: usefulness and cost-effectiveness in the consecutive experience of 210 patients.. *Neurosurgery* 58:315-321,2006
4. Yonekura I, Takai K, Asai A, Kawahara N, Kirino T: p53 potentiates hippocampal neuronal death caused by global ischemia.. *J Cereb Blood Flow Metab.* 2006 *Mar* :15;,2006
5. Furuya K, Zhu L, Kawahara N, Abe O, Kirino T: Differences in infarct evolution between lipopolysaccharide-induced tolerant and nontolerant conditions to focal cerebral ischemia.. *J Neurosurg* 103:715-723,2005
6. Hotta S, Morita A, Seichi A, Kirino T: Aberrant vertebral artery course in a case of Chiari malformation and occipitoatlantal assimilation. Case report.. *J Neurosurg Spine* 3:246-248,2005
7. Kamada K, Sawamura Y, Takeuchi F, Kawaguchi H, Kuriki S, Todo T, Morita A, Masutani Y, Aoki S, Kirino T: Functional identification of the primary motor area by corticospinal tractography.. *Neurosurgery* 56:98-109,2005
8. Kamada K, Todo T, Masutani Y, Aoki S, Ino K, Takano T, Kirino T, Kawahara N, Morita A: Combined use of tractography-integrated functional neuronavigation and direct fiber stimulation.. *J Neurosurg* 102:664-672,2005
9. Kamada K, Todo T, Morita A, Masutani Y, Aoki S, Ino K, Kawai K, Kirino T: Functional monitoring for visual pathway using real-time visual evoked potentials

- and optic-radiation tractography.. *Neurosurgery* 57:121-127,2005
10. Kano M, Tsutsumi S, Kawahara N, Wang Y, Mukasa A, Kirino T, Aburatani H: A meta-clustering analysis indicates distinct pattern alteration between two series of gene expression profiles for induced ischemic tolerance in rats.. *Physiol Genomics* 21:274-283,2005
 11. Kunii N, Morita A, Yoshikawa G, Kirino T: Subdural hematoma associated with dural metastasis--case report--.. *Neurol Med Chir (Tokyo)* 45:519-522,2005
 12. Maruyama K, Kamada K, Shin M, Itoh D, Aoki S, Masutani Y, Tago M, Kirino T: Integration of three-dimensional corticospinal tractography into treatment planning for gamma knife surgery.. *J Neurosurg* 102:673-677,2005
 13. Maruyama K, Kawahara N, Shin M, Tago M, Kishimoto J, Kurita H, Kawamoto S, Morita A, Kirino T: The risk of hemorrhage after radiosurgery for cerebral arteriovenous malformations.. *N Engl J Med* 352:146-153,2005
 14. Maruyama K, Morita A, Shibahara J, Nakazato Y, Kirino T: Multifocal pilocytic astrocytomas with ependymal differentiation in the bilateral medial temporal lobes: case report.. *Neurol Med Chir (Tokyo)* 45:411-414,2005
 15. Maruyama K, Shin M, Tago M, Kurita H, Kawamoto S, Morita A, Kirino T: Gamma knife surgery for arteriovenous malformations involving the corpus callosum.. *J Neurosurg* 102 Suppl:49-52,2005
 16. Morita A, Fujiwara S, Hashi K, Ohtsu H, Kirino T: Risk of rupture associated with intact cerebral aneurysms in the Japanese population: a systematic review of the literature from Japan.. *J Neurosurg* 102:601-606,2005
 17. Morita A, Sora S, Mitsuishi M, Warisawa S, Suruman K, Asai D, Arata J, Baba S, Takahashi H, Mochizuki R, Kirino T: Microsurgical robotic system for the deep surgical field: development of a prototype and feasibility studies in animal and cadaveric models.. *J Neurosurg* 103:320-327,2005
 18. Oya S, Kawahara N, Aoki S, Hayashi N, Shibahara J, Izumi M, Kirino T: Intracranial extracerebral glioneuronal heterotopia. Case report and review of the literature.. *J Neurosurg* 102:105-112,2005
 19. Saito K, Morita A, Shibahara J, Kirino T: Spinal intramedullary ependymal cyst: a case report and review of the literature.. *Acta Neurochir (Wien)* 147:443-446,2005
 20. Shin M, Kawahara N, Maruyama K, Tago M, Ueki K, Kirino T: Risk of hemorrhage from an arteriovenous malformation confirmed to have been obliterated on angiography after stereotactic radiosurgery.. *J Neurosurg* 102:842-846,2005
 21. Shojima M, Oshima M, Takagi K, Torii R, Nagata K, Shirouzu I, Morita A, Kirino

- T: Role of the bloodstream impacting force and the local pressure elevation in the rupture of cerebral aneurysms.. *Stroke* 36:1933-1938,2005
22. Yako K, Morita A, Ueki K, Kirino T: Subfrontal schwannoma.. *Acta Neurochir (Wien)* 147:655-657,2005
 23. Yoshino M, Morita A, Shibahara J, Kirino T: Radiation-induced spinal cord cavernous malformation. Case report.. *J Neurosurg* 102:101-104,2005
 24. Asano S, Mihara B, Kirino T, Sugishita M: Anatomical constraints on visualization of the human hippocampus using echo-planar imaging.. *Neuroradiology* 46:535-540,2004
 25. Furuya K, Kawahara N, Kawai K, Toyoda T, Maeda K, Kirino T: Proximal occlusion of the middle cerebral artery in C57Black6 mice: relationship of patency of the posterior communicating artery, infarct evolution, and animal survival.. *J Neurosurg* 100:97-105,2004
 26. Furuya K, Kawahara N, Morita A, Momose T, Aoki S, Kirino T: Focal hyperperfusion after superficial temporal artery-middle cerebral artery anastomosis in a patient with moyamoya disease. Case report.. *J Neurosurg* 100:128-132,2004
 27. Inoue T, Kawahara N, Shibahara J, Masumoto T, Usami K, Kirino T: Extradural neurenteric cyst of the cerebellopontine angle. Case report.. *J Neurosurg* 100:1091-1093,2004
 28. Iwamuro H, Morita A, Kawaguchi H, Kirino T: Resolution of spinal epidural haematoma without surgery in a haemophilic infant.. *Acta Neurochir (Wien)* 146:1263-1265,2004
 29. Kawahara N, Wang Y, Mukasa A, Furuya K, Shimizu T, Hamakubo T, Aburatani H, Kodama T, Kirino T: Genome-wide gene expression analysis for induced ischemic tolerance and delayed neuronal death following transient global ischemia in rats.. *J Cereb Blood Flow Metab* 24:212-223,2004
 30. Kim P, Haisa T, Kawamoto T, Kirino T, Wakai S: Delayed myelopathy induced by chronic compression in the rat spinal cord.. *Ann Neurol* 55:503-511,2004
 31. Maruyama K, Shin M, Kurita H, Kawahara N, Morita A, Kirino T: Proposed treatment strategy for cavernous sinus meningiomas: a prospective study.. *Neurosurgery* 55:1068-1075,2004
 32. Morita A, Okada Y, Kitano M, Hori T, Taneda M, Kirino T: Development of hybrid integrated endoscope-holder system for endoscopic microneurosurgery.. *Neurosurgery* 55:926-931,2004
 33. Mukasa A, Ueki K, Ge X, Ishikawa S, Ide T, Fujimaki T, Nishikawa R, Asai A, Kirino T, Aburatani H: Selective expression of a subset of neuronal genes in

- oligodendroglioma with chromosome 1p loss.. *Brain Pathol* 14:34-42,2004
34. Nikaido H, Tsunoda H, Nishimura Y, Kirino T, Tanaka T: Potential role for heat shock protein 72 in antagonizing cerebral vasospasm after rat subarachnoid hemorrhage.. *Circulation* 110:1839-1846,2004
 35. Shin M, Maruyama K, Kurita H, Kawamoto S, Tago M, Terahara A, Morita A, Ueki K, Takakura K, Kirino T: Analysis of nidus obliteration rates after gamma knife surgery for arteriovenous malformations based on long-term follow-up data: the University of Tokyo experience.. *J Neurosurg* 101:18-24,2004
 36. Shojima M, Oshima M, Takagi K, Torii R, Hayakawa M, Katada K, Morita A, Kirino T: Magnitude and role of wall shear stress on cerebral aneurysm: computational fluid dynamic study of 20 middle cerebral artery aneurysms.. *Stroke* 35:2500-2505,2004
 37. Yonekura I, Kawahara N, Nakatomi H, Furuya K, Kirino T: A model of global cerebral ischemia in C57 BL/6 mice.. *J Cereb Blood Flow Metab* 24:151-158,2004
 38. Asano S, Kawahara N, Kirino T: Intradural spinal seeding of a clival chordoma.. *Acta Neurochir (Wien)* 145:599-603,2003
 39. Hoya K, Asai A, Sasaki T, Nagata K, Kimura K, Kirino T: Expression of myosin heavy chain isoforms by smooth muscle cells in cerebral arteriovenous malformations.. *Acta Neuropathol (Berl)* 105:455-461,2003
 40. Ohata K, Saito K, Sekhar LN, Morita A, Kirino T: ["How I do it" no. 6, a case with a giant petroclival meningioma presented with progressive ataxia: how should this case be managed?]. *No Shinkei Geka* 31:1125,2003
 41. Watanabe K, Saito N, Taniguchi M, Kirino T, Sasaki T: Analysis of taste disturbance before and after surgery in patients with vestibular schwannoma.. *J Neurosurg* 99:999-1003,2003
 42. Asai A, Tanahashi N, Qiu JH, Saito N, Chi S, Kawahara N, Tanaka K, Kirino T: Selective proteasomal dysfunction in the hippocampal CA1 region after transient forebrain ischemia.. *J Cereb Blood Flow Metab* 22:705-710,2002
 43. Kawahara N, Kawai K, Toyoda T, Nakatomi H, Furuya K, Kirino T: Cardiac arrest cerebral ischemia model in mice failed to cause delayed neuronal death in the hippocampus.. *Neurosci Lett* 322:91-94,2002
 44. Kirino T: Ischemic tolerance.. *J Cereb Blood Flow Metab* 22:1283-1296,2002
 45. Maruyama K, Shin M, Kurita H, Tago M, Kirino T: Stereotactic radiosurgery for dural arteriovenous fistula involving the superior sagittal sinus. Case report.. *J Neurosurg* 97:481-483,2002

46. Mochizuki T, Asai A, Saito N, Tanaka S, Katagiri H, Asano T, Nakane M, Tamura A, Kuchino Y, Kitanaka C, Kirino T: Akt protein kinase inhibits non-apoptotic programmed cell death induced by ceramide.. *J Biol Chem* 277:2790-2797,2002
47. Mukasa A, Ueki K, Matsumoto S, Tsutsumi S, Nishikawa R, Fujimaki T, Asai A, Kirino T, Aburatani H: Distinction in gene expression profiles of oligodendrogliomas with and without allelic loss of 1p.. *Oncogene* 21:3961-3968,2002
48. Nakatomi H, Kuriu T, Okabe S, Yamamoto S, Hatano O, Kawahara N, Tamura A, Kirino T, Nakafuku M: Regeneration of hippocampal pyramidal neurons after ischemic brain injury by recruitment of endogenous neural progenitors.. *Cell* 110:429-441,2002
49. Saito N, Sasaki T, Chikui E, Yuyama R, Kirino T: Anterior transpetrosal approach for pontine cavernous angioma--case report.. *Neurol Med Chir (Tokyo)* 42:272-274,2002
50. Shin M, Kawamoto S, Kurita H, Tago M, Sasaki T, Morita A, Ueki K, Kirino T: Retrospective analysis of a 10-year experience of stereotactic radio surgery for arteriovenous malformations in children and adolescents.. *J Neurosurg* 97:779-784,2002
51. Shin M, Ueki K, Kurita H, Kirino T: Malignant transformation of a vestibular schwannoma after gamma knife radiosurgery.. *Lancet* 360:309-310,2002
52. Shinoura N, Sakurai S, Shibasaki F, Asai A, Kirino T, Hamada H: Co-transduction of Apaf-1 and caspase-9 highly enhances p53-mediated apoptosis in gliomas.. *Br J Cancer* 86:587-595,2002
53. Ueki K, Nishikawa R, Nakazato Y, Hirose T, Hirato J, Funada N, Fujimaki T, Hojo S, Kubo O, Ide T, Usui M, Ochiai C, Ito S, Takahashi H, Mukasa A, Asai A, Kirino T: Correlation of histology and molecular genetic analysis of 1p, 19q, 10q, TP53, EGFR, CDK4, and CDKN2A in 91 astrocytic and oligodendroglial tumors.. *Clin Cancer Res* 8:196-201,2002
54. Asano S, Ueki K, Suzuki I, Kirino T: Clinical features and medical treatment of male prolactinomas.. *Acta Neurochir (Wien)* 143:465-470,2001
55. Hoya K, Asai A, Sasaki T, Kimura K, Kirino T: Expression of smooth muscle proteins in cavernous and arteriovenous malformations.. *Acta Neuropathol (Berl)* 102:257-263,2001
56. Kawai K, Nonaka K, Suzuki H, Kirino T, Tamura A: Differential effects of activity and climate on onset of subarachnoid hemorrhage.. *Neurol Med Chir (Tokyo)* 41:229-236,2001

57. Kawai K, Suzuki I, Kurita H, Shin M, Arai N, Kirino T: Failure of low-dose radiosurgery to control temporal lobe epilepsy.. *J Neurosurg* 95:883-887,2001
58. Kohda T, Asai A, Kuroiwa Y, Kobayashi S, Aisaka K, Nagashima G, Yoshida MC, Kondo Y, Kagiyama N, Kirino T, Kaneko-Ishino T, Ishino F: Tumour suppressor activity of human imprinted gene PEG3 in a glioma cell line.. *Genes Cells* 6:237-247,2001
59. Kurita H, Kawahara N, Asai A, Ueki K, Shin M, Kirino T: Radiation-induced apoptosis of oligodendrocytes in the adult rat brain.. *Neurol Res* 23:869-874,2001
60. Kurita H, Shin M, Ueki K, Kawamoto S, Kirino T: Congestive brain oedema associated with a pial arteriovenous malformation with impaired venous drainage.. *Acta Neurochir (Wien)* 143:339-342,2001
61. Kurita H, Suzuki I, Shin M, Kawai K, Tago M, Momose T, Kirino T: Successful radiosurgical treatment of lesional epilepsy of mesial temporal origin.. *Minim Invasive Neurosurg* 44:43-46,2001
62. Okamoto K, Shinoura N, Egawa N, Asai A, Kirino T, Shibasaki F, Shitara N: Adenovirus-mediated transfer of p53 augments hyperthermia-induced apoptosis in U251 glioma cells.. *Int J Radiat Oncol Biol Phys* 50:525-531,2001
63. Osada T, Fujimaki T, Takamizawa M, Tsuno NH, Kirino T, Shibata Y: Dendritic cells activate antitumor immunity for malignant intracranial germ cell tumor: a case report.. *Jpn J Clin Oncol* 31:403-406,2001
64. Oya S, Fujimaki T, Asai A, Kirino T: Recurrence of infantile supratentorial ependymoma after 23-year remission following surgical removal and radiation therapy.. *Tumori* 87:104-108,2001
65. Oya S, Tsutsumi K, Ueki K, Kirino T: Reinduction of hyponatremia to treat central pontine myelinolysis.. *Neurology* 57:1931-1932,2001
66. Shin M, Kurita H, Sasaki T, Kawamoto S, Tago M, Kawahara N, Morita A, Ueki K, Kirino T: Analysis of treatment outcome after stereotactic radiosurgery for cavernous sinus meningiomas.. *J Neurosurg* 95:435-439,2001
67. Shinoura N, Furitsu T, Asai A, Kirino T, Hamada H: Co-transduction of p27Kip1 strongly augments Fas ligand- and caspase-8-mediated apoptosis in U-373MG glioma cells.. *Anticancer Res* 21:3261-3268,2001
68. Shinoura N, Sakurai S, Asai A, Kirino T, Hamada H: Over-expression of APAF-1 and caspase-9 augments radiation-induced apoptosis in U-373MG glioma cells.. *Int J Cancer* 93:252-261,2001
69. Shinoura N, Sakurai S, Asai A, Kirino T, Hamada H: Caspase-9 transduction overrides the resistance mechanism against p53-mediated apoptosis in U-87MG

- glioma cells.. *Neurosurgery* 49:177-186,2001
70. Shinoura N, Sakurai S, Asai A, Kirino T, Hamada H: Co-transduction of Apaf-1 and caspase-9 augments etoposide-induced apoptosis in U-373MG glioma cells.. *Jpn J Cancer Res* 92:467-474,2001
 71. Sora S, Ueki K, Saito N, Kawahara N, Shitara N, Kirino T: Incidence of von Hippel-Lindau disease in hemangioblastoma patients: the University of Tokyo Hospital experience from 1954-1998.. *Acta Neurochir (Wien)* 143:893-896,2001
 72. Takai K, Nishihara T, Nemoto S, Ueki K, Miyauchi H, Mishima K, Suzuki I, Kirino T: Multilocular cystic lesion associated with a giant aneurysm.. *J Neurosurg* 95:1081,2001
 73. Tsutsumi K, Ueki K, Kirino T: Recurrent subarachnoid hemorrhage.. *J Neurosurg* 94:541-542,2001
 74. Tsutsumi K, Ueki K, Morita A, Usui M, Kirino T: Risk of aneurysm recurrence in patients with clipped cerebral aneurysms: results of long-term follow-up angiography.. *Stroke* 32:1191-1194,2001
 75. Ueki K, Sasaki T, Ishida T, Kirino T: Spinal tanycytic ependymoma associated with neurofibromatosis type 2--case report.. *Neurol Med Chir (Tokyo)* 41:513-516,2001
 76. Fujimaki T, Kirino T: Combined transhorizontal-supracerebellar approach for microvascular decompression of trigeminal neuralgia.. *Br J Neurosurg* 14:531-534,2000
 77. Fujimaki T, Mishima K, Asai A, Tabuchi K, Kobayashi M, Suzuki I, Kirino T: Levels of beta-human chorionic gonadotropin in cerebrospinal fluid of patients with malignant germ cell tumor can be used to detect early recurrence and monitor the response to treatment.. *Jpn J Clin Oncol* 30:291-294,2000
 78. Hoya K, Kirino T: Traumatic trochlear nerve palsy following minor occipital impact--four case reports.. *Neurol Med Chir (Tokyo)* 40:358-360,2000
 79. Isoo A, Ueki K, Ishida T, Yoshikawa T, Fujimaki T, Suzuki I, Sasaki T, Kirino T: Langerhans cell histiocytosis limited to the pituitary-hypothalamic axis--two case reports.. *Neurol Med Chir (Tokyo)* 40:532-535,2000
 80. Kirino T: Delayed neuronal death.. *Neuropathology* 20 Suppl:S95-S97,2000
 81. Kurita H, Kawamoto S, Sasaki T, Shin M, Tago M, Terahara A, Ueki K, Kirino T: Results of radiosurgery for brain stem arteriovenous malformations.. *J Neurol Neurosurg Psychiatry* 68:563-570,2000
 82. Kurita H, Kawamoto S, Ueki K, Kirino T: Dejerine syndrome caused by an aneurysmal compression.. *Arch Neurol* 57:1639-1640,2000

83. Kurita H, Segawa H, Shin M, Ueki K, Ichi S, Sasaki T, Tago M, Kirino T: Radiosurgery of meningeal melanocytoma.. *J Neurooncol* 46:57-61,2000
84. Kurita H, Shin M, Kirino T: Resolution of migraine with aura caused by an occipital arteriovenous malformation.. *Arch Neurol* 57:1219-1220,2000
85. Kurita H, Ueki K, Shin M, Kawamoto S, Sasaki T, Tago M, Kirino T: Headaches in patients with radiosurgically treated occipital arteriovenous malformations.. *J Neurosurg* 93:224-228,2000
86. Maruyama K, Mishima K, Saito N, Fujimaki T, Sasaki T, Kirino T: Radiation-induced aneurysm and moyamoya vessels presenting with subarachnoid haemorrhage.. *Acta Neurochir (Wien)* 142:139-143,2000
87. Matsuno A, Katakami H, Nagashima T, Teramoto A, Osamura RY, Kirino T: Growth hormone-releasing hormone expression in pituitary somatotroph adenomas, studied by immunohistochemistry and in situ hybridization using catalyzed signal amplification system.. *Hum Pathol* 31:789-794,2000
88. Nakagawa K, Tago M, Terahara A, Aoki Y, Sasaki T, Kurita H, Shin M, Kawamoto S, Kirino T, Otomo K: A single institutional outcome analysis of Gamma Knife radiosurgery for single or multiple brain metastases.. *Clin Neurol Neurosurg* 102:227-232,2000
89. Nakatomi H, Segawa H, Kurata A, Shiokawa Y, Nagata K, Kamiyama H, Ueki K, Kirino T: Clinicopathological study of intracranial fusiform and dolichoectatic aneurysms : insight on the mechanism of growth.. *Stroke* 31:896-900,2000
90. Narita Y, Asai A, Kuchino Y, Kirino T: Actinomycin D and staurosporine, potent apoptosis inducers in vitro, are potentially effective chemotherapeutic agents against glioblastoma multiforme.. *Cancer Chemother Pharmacol* 45:149-156,2000
91. Nishihara T, Teraoka A, Morita A, Ueki K, Takai K, Kirino T: A transparent sheath for endoscopic surgery and its application in surgical evacuation of spontaneous intracerebral hematomas. Technical note.. *J Neurosurg* 92:1053-1055,2000
92. Qiu JH, Asai A, Chi S, Saito N, Hamada H, Kirino T: Proteasome inhibitors induce cytochrome c-caspase-3-like protease-mediated apoptosis in cultured cortical neurons.. *J Neurosci* 20:259-265,2000
93. Saito N, Hayashi N, Okubo T, Takai K, Miyauchi H, Sasaki T, Kirino T: Internal carotid artery aneurysm visualized during successful endovascular treatment of carotid embolism.. *AJNR Am J Neuroradiol* 21:546-548,2000
94. Saito N, Sasaki T, Okubo T, Kirino T: Pure intracranial vagal neurinoma.. *Acta*

Neurochir (Wien) 142:479-480,2000

95. Shin M, Kurita H, Sasaki T, Tago M, Morita A, Ueki K, Kirino T: Stereotactic radiosurgery for pituitary adenoma invading the cavernous sinus.. *J Neurosurg* **93 Suppl** 3:2-5,2000
96. Shin M, Kurita H, Tago M, Kirino T: Stereotactic radiosurgery for tentorial dural arteriovenous fistulae draining into the vein of Galen: report of two cases.. *Neurosurgery* 46:730-733,2000
97. Shin M, Morita A, Asano S, Ueki K, Kirino T: Neuroendoscopic aqueductal stent placement procedure for isolated fourth ventricle after ventricular shunt placement. Case report.. *J Neurosurg* 92:1036-1039,2000
98. Shinoura N, Koike H, Furuta T, Hashimoto M, Asai A, Kirino T, Hamada H: Adenovirus-mediated transfer of caspase-8 augments cell death in gliomas: implication for gene therapy.. *Hum Gene Ther* 11:1123-1137,2000
99. Shinoura N, Muramatsu Y, Asai A, Han S, Horii A, Kirino T, Hamada H: Degree of apoptosis induced by adenovirus-mediated transduction of p53 or p73alpha depends on the p53 status of glioma cells.. *Cancer Lett* 160:67-73,2000
100. Shinoura N, Muramatsu Y, Yoshida Y, Asai A, Kirino T, Hamada H: Adenovirus-mediated transfer of caspase-3 with Fas ligand induces drastic apoptosis in U-373MG glioma cells.. *Exp Cell Res* 256:423-433,2000
101. Shinoura N, Ohashi M, Yoshida Y, Kirino T, Asai A, Hashimoto M, Hamada H: Adenovirus-mediated overexpression of Fas induces apoptosis of gliomas.. *Cancer Gene Ther* 7:224-232,2000
102. Shinoura N, Saito K, Yoshida Y, Hashimoto M, Asai A, Kirino T, Hamada H: Adenovirus-mediated transfer of bax with caspase-8 controlled by myelin basic protein promoter exerts an enhanced cytotoxic effect in gliomas.. *Cancer Gene Ther* 7:739-748,2000
103. Shinoura N, Sakurai S, Asai A, Kirino T, Hamada H: Transduction of a fiber-mutant adenovirus for the HSVtk gene highly augments the cytopathic effect towards gliomas.. *Jpn J Cancer Res* 91:1028-1034,2000
104. Shinoura N, Sakurai S, Asai A, Kirino T, Hamada H: Transduction of Apaf-1 or caspase-9 induces apoptosis in A-172 cells that are resistant to p53-mediated apoptosis.. *Biochem Biophys Res Commun* 272:667-673,2000
105. Shinoura N, Satou R, Yoshida Y, Asai A, Kirino T, Hamada H: Adenovirus-mediated transfer of Bcl-X(L) protects neuronal cells from Bax-induced apoptosis.. *Exp Cell Res* 254:221-231,2000
106. Shinoura N, Yamamoto N, Asai A, Kirino T, Hamada H: Adenovirus-mediated

- transfer of Fas ligand gene augments radiation-induced apoptosis in U-373MG glioma cells.. *Jpn J Cancer Res* 91:1044-1050,2000
107. Shinoura N, Yamamoto N, Yoshida Y, Asai A, Kirino T, Hamada H: Adenovirus-mediated transfer of caspase-8 in combination with superrepressor of NF-kappaB drastically induced apoptosis in gliomas.. *Biochem Biophys Res Commun* 271:544-552,2000
 108. Shinoura N, Yamamoto N, Yoshida Y, Fujita T, Saito N, Asai A, Kirino T, Hamada H: Adenovirus-mediated gene transduction of IkappaB or IkappaB plus Bax gene drastically enhances tumor necrosis factor (TNF)-induced apoptosis in human gliomas.. *Jpn J Cancer Res* 91:41-51,2000
 109. Shinoura N, Yoshida Y, Asai A, Kirino T, Hamada H: Adenovirus-mediated transfer of p53 and Fas ligand drastically enhances apoptosis in gliomas.. *Cancer Gene Ther* 7:732-738,2000
 110. Tsutsumi K, Ueki K, Morita A, Kirino T: Risk of rupture from incidental cerebral aneurysms.. *J Neurosurg* 93:550-553,2000
 111. Yamaoka K, Mishima K, Nagashima Y, Asai A, Sanai Y, Kirino T: Expression of galectin-1 mRNA correlates with the malignant potential of human gliomas and expression of antisense galectin-1 inhibits the growth of 9 glioma cells.. *J Neurosci Res* 59:722-730,2000
 112. Zhu L, Saito N, Abe O, Okubo T, Yamada H, Kawahara N, Asai A, Kirino T: Changes in the apparent diffusion coefficient of water and T2 relaxation time in gerbil hippocampus after mild ischemia.. *Neuroreport* 11:3333-3336,2000
 113. Asai A, Qiu J, Narita Y, Chi S, Saito N, Shinoura N, Hamada H, Kuchino Y, Kirino T: High level calcineurin activity predisposes neuronal cells to apoptosis.. *J Biol Chem* 274:34450-34458,1999
 114. Fujimaki T, Kirino T: Coagulation of the petrosal vein for MVD.. *J Neurosurg* 90:1148,1999
 115. Fujimaki T, Mishima K, Asai A, Suzuki I, Kirino T: Spontaneous regression of a residual pineal tumor after resection of a cerebellar vermian germinoma.. *J Neurooncol* 41:65-70,1999
 116. Ide T, Takada K, Qiu JH, Saito N, Kawahara N, Asai A, Kirino T: Ubiquitin stress response in postischemic hippocampal neurons under nontolerant and tolerant conditions.. *J Cereb Blood Flow Metab* 19:750-756,1999
 117. Kawahara N, Kume H, Ueki K, Mishima K, Sasaki T, Kirino T: VHL gene inactivation in an endolymphatic sac tumor associated with von Hippel-Lindau disease.. *Neurology* 53:208-210,1999

118. Kawahara N, Mishima K, Higashiyama S, Taniguchi N, Tamura A, Kirino T: The gene for heparin-binding epidermal growth factor-like growth factor is stress-inducible: its role in cerebral ischemia.. *J Cereb Blood Flow Metab* 19:307-320,1999
119. Kim P, Yoshimoto Y, Nakaguchi H, Mori T, Asai A, Sasaki T, Kirino T, Nonomura Y: Increased sarcolemmal permeability in the cerebral artery during chronic spasm: an assessment using DNA-binding dyes and detection of apoptosis.. *J Cereb Blood Flow Metab* 19:889-897,1999
120. Kirino T: [Molecular biology and cerebrovascular diseases]. *No Shinkei Geka* 27:111-118,1999
121. Kurita H, Kawamoto S, Kirino T: Radiosurgically treated acromegaly.. *J Neurol Neurosurg Psychiatry* 66:244,1999
122. Kurita H, Kawamoto S, Sasaki T, Shin M, Ueki K, Momose T, Terahara A, Kirino T: Relief of hemiballism from a basal ganglia arteriovenous malformation after radiosurgery.. *Neurology* 52:188-190,1999
123. Kurita H, Kirino T: A longitudinal study of patients with venous malformations.. *Neurology* 52:1109-1110,1999
124. Kurita H, Sasaki T, Tago M, Kaneko Y, Kirino T: Successful radiosurgical treatment of arteriovenous malformation accompanied by venous malformation.. *AJNR Am J Neuroradiol* 20:482-485,1999
125. Kurita H, Segawa H, Ueki K, Kirino T: A sneezer's headache.. *Neurology* 53:654-655,1999
126. Matsuno A, Sasaki T, Kirino T: Plurihormonal pituitary tumor.. *J Neurosurg* 90:608-609,1999
127. Nakaguchi H, Fujimaki T, Matsuno A, Matsuura R, Asai A, Suzuki I, Sasaki T, Kirino T: Postoperative residual tumor growth of meningioma can be predicted by MIB-1 immunohistochemistry.. *Cancer* 85:2249-2254,1999
128. Nakaguchi H, Fujimaki T, Ueki K, Takahashi M, Yoshida H, Kirino T: Snowboard head injury: prospective study in Chino, Nagano, for two seasons from 1995 to 1997.. *J Trauma* 46:1066-1069,1999
129. Nukui H, Abe H, Kirino T, Ogawa A, Katayama Y: Neurosurgeons request better relationships in the Japanese Organ Transplantation System. Organ Transplantation and Brain Death Investigation Committee of the Japan Neurosurgical Society.. *Transplant Proc* 31:1950,1999
130. Sasaki T, Sasaki T, Okamoto K, Ishida T, Kirino T: Cavernous angioma of the internal acoustic meatus--case report.. *Neurol Med Chir (Tokyo)* 39:847-851,1999

131. Shinoura N, Muramatsu Y, Nishimura M, Yoshida Y, Saito A, Yokoyama T, Furukawa T, Horii A, Hashimoto M, Asai A, Kirino T, Hamada H: Adenovirus-mediated transfer of p33ING1 with p53 drastically augments apoptosis in gliomas.. *Cancer Res* 59:5521-5528,1999
132. Shinoura N, Yoshida Y, Asai A, Kirino T, Hamada H: Relative level of expression of Bax and Bcl-XL determines the cellular fate of apoptosis/necrosis induced by the overexpression of Bax.. *Oncogene* 18:5703-5713,1999
133. Shinoura N, Yoshida Y, Nishimura M, Muramatsu Y, Asai A, Kirino T, Hamada H: Expression level of Bcl-2 determines anti- or proapoptotic function.. *Cancer Res* 59:4119-4128,1999
134. Shinoura N, Yoshida Y, Tsunoda R, Ohashi M, Zhang W, Asai A, Kirino T, Hamada H: Highly augmented cytopathic effect of a fiber-mutant E1B-defective adenovirus for gene therapy of gliomas.. *Cancer Res* 59:3411-3416,1999
135. Tsutsumi K, Ohno H, Okada Y, Fujimaki T, Kirino T: Fenestrated oculomotor nerve caused by meningioma around the cavernous sinus: a surgical pitfall in tumor removal: case report.. *Neurosurgery* 44:395-396,1999
136. Tsutsumi K, Ueki K, Usui M, Kwak S, Kirino T: Risk of subarachnoid hemorrhage after surgical treatment of unruptured cerebral aneurysms.. *Stroke* 30:1181-1184,1999
137. Ueki K, Wen-Bin C, Narita Y, Asai A, Kirino T: Tight association of loss of merlin expression with loss of heterozygosity at chromosome 22q in sporadic meningiomas.. *Cancer Res* 59:5995-5998,1999
138. Watanabe T, Nagamatsu S, Matsushima S, Kirino T, Uchimura H: Colocalization of GLUT3 and choline acetyltransferase immunoreactivity in the rat retina.. *Biochem Biophys Res Commun* 256:505-511,1999
139. Watanabe T, Nagamatsu S, Matsushima S, Kondo K, Motobu H, Hirose K, Mabuchi K, Kirino T, Uchimura H: Developmental expression of GLUT2 in the rat retina.. *Cell Tissue Res* 298:217-223,1999
140. Wenbin C, Asai A, Teramoto A, Sanno N, Kirino T: Mutations of the MEN1 tumor suppressor gene in sporadic pituitary tumors.. *Cancer Lett* 142:43-47,1999
141. Fujimaki T, Sasaki T, Kirino T: Microvascular decompression.. *J Neurosurg* 88:617-618,1998
142. Kawahara N, Ide T, Saito N, Kawai K, Kirino T: Propentofylline potentiates induced ischemic tolerance in gerbil hippocampal neurons via adenosine receptor.. *J Cereb Blood Flow Metab* 18:472-475,1998
143. Kawahara N, Sasaki T, Nibu K, Sugawara M, Ichimura K, Nakatsuka T, Yamada

- A, Kirino T: Dumbbell type jugular foramen meningioma extending both into the posterior cranial fossa and into the parapharyngeal space: report of 2 cases with vascular reconstruction.. *Acta Neurochir (Wien)* 140:323-330,1998
144. Kawai K, Nakagomi T, Kirino T, Tamura A, Kawai N: Preconditioning in vivo ischemia inhibits anoxic long-term potentiation and functionally protects CA1 neurons in the gerbil.. *J Cereb Blood Flow Metab* 18:288-296,1998
145. Kawai K, Narita Y, Nagai A, Nakagomi T, Kobayashi K, Kirino T, Tamura A: Traumatic chiasmal syndrome presenting with bitemporal hemianopsia.. *J Trauma* 44:224-229,1998
146. Kim P, Wakai S, Matsuo S, Moriyama T, Kirino T: Bisegmental cervical interbody fusion using hydroxyapatite implants: surgical results and long-term observation in 70 cases.. *J Neurosurg* 88:21-27,1998
147. Kurita H, Kawamoto S, Suzuki I, Sasaki T, Tago M, Terahara A, Kirino T: Control of epilepsy associated with cerebral arteriovenous malformations after radiosurgery.. *J Neurol Neurosurg Psychiatry* 65:648-655,1998
148. Kurita H, Sasaki T, Suzuki I, Kirino T: Basal ganglia arteriovenous malformation presenting as "writer's cramp".. *Childs Nerv Syst* 14:285-287,1998
149. Mishima K, Higashiyama S, Asai A, Yamaoka K, Nagashima Y, Taniguchi N, Kitanaka C, Kirino T, Kuchino Y: Heparin-binding epidermal growth factor-like growth factor stimulates mitogenic signaling and is highly expressed in human malignant gliomas.. *Acta Neuropathol (Berl)* 96:322-328,1998
150. Mishima K, Sasaki T, Ojima T, Mukasa A, Kirino T: Multilobular cavernous malformation: report of two cases.. *Acta Neurochir (Wien)* 140:20-25,1998
151. Morikawa E, Mori H, Kiyama Y, Mishina M, Asano T, Kirino T: Attenuation of focal ischemic brain injury in mice deficient in the epsilon1 (NR2A) subunit of NMDA receptor.. *J Neurosci* 18:9727-9732,1998
152. Nishiyama M, Okamoto H, Watanabe T, Hori T, Sasaki T, Kirino T, Shimizu T: Endothelium is required for 12-hydroperoxyeicosatetraenoic acid-induced vasoconstriction.. *Eur J Pharmacol* 341:57-63,1998
153. Sano T, Asai A, Mishima K, Fujimaki T, Kirino T: Telomerase activity in 144 brain tumours.. *Br J Cancer* 77:1633-1637,1998
154. Sasaki T, Kurita H, Saito I, Kawamoto S, Nemoto S, Terahara A, Kirino T, Takakura K: Arteriovenous malformations in the basal ganglia and thalamus: management and results in 101 cases.. *J Neurosurg* 88:285-292,1998
155. Shinoura N, Ohashi M, Yoshida Y, Asai A, Kirino T, Saito I, Hamada H: Construction, propagation, and titer estimation of recombinant adenoviruses

- carrying proapoptotic genes.. *Hum Gene Ther* 9:2683-2689,1998
156. Shinoura N, Yoshida Y, Sadata A, Hanada KI, Yamamoto S, Kirino T, Asai A, Hamada H: Apoptosis by retrovirus- and adenovirus-mediated gene transfer of Fas ligand to glioma cells: implications for gene therapy.. *Hum Gene Ther* 9:1983-1993,1998
157. Todo T, Kondo T, Kirino T, Asai A, Adams EF, Nakamura S, Ikeda K, Kurokawa T: Expression and growth stimulatory effect of fibroblast growth factor 9 in human brain tumors.. *Neurosurgery* 43:337-346,1998
158. Todo T, Kondo T, Nakamura S, Kirino T, Kurokawa T, Ikeda K: Neuronal localization of fibroblast growth factor-9 immunoreactivity in human and rat brain.. *Brain Res* 783:179-187,1998
159. Tsutsumi K, Ueki K, Usui M, Kwak S, Kirino T: Risk of recurrent subarachnoid hemorrhage after complete obliteration of cerebral aneurysms.. *Stroke* 29:2511-2513,1998
160. Yuyama R, Mishima K, Fujimaki T, Suzuki I, Sasaki T, Ueno H, Shibata Y, Kirino T: [Clinical experience of autologous blood transfusion and fibrin glue in neurosurgery]. *No Shinkei Geka* 26:685-690,1998
161. Fujimaki T, Matsuno A, Sasaki T, Toyoda T, Matsuura R, Ogai M, Kitanaka C, Asai A, Matsutani M, Kirino T: Proliferative activity of central neurocytoma: measurement of tumor volume doubling time, MIB-1 staining index and bromodeoxyuridine labeling index.. *J Neurooncol* 32:103-109,1997
162. Kurita H, Sasaki T, Kawamoto S, Taniguchi M, Terahara A, Tago M, Kirino T: Role of radiosurgery in the management of cavernous sinus meningiomas.. *Acta Neurol Scand* 96:297-304,1997
163. Maeda K, Kurita H, Nakamura T, Usui M, Tsutsumi K, Morimoto T, Kirino T: Occurrence of severe vasospasm following intraventricular hemorrhage from an arteriovenous malformation. Report of two cases.. *J Neurosurg* 87:436-439,1997
164. Matsuno A, Sasaki T, Nagashima T, Matsuura R, Tanaka H, Hirakawa M, Murakami M, Kirino T: Immunohistochemical examination of proliferative potentials and the expression of cell cycle-related proteins of intracranial chordomas.. *Hum Pathol* 28:714-719,1997
165. Mishima K, Asai A, Kadomatsu K, Ino Y, Nomura K, Narita Y, Muramatsu T, Kirino T: Increased expression of midkine during the progression of human astrocytomas.. *Neurosci Lett* 233:29-32,1997
166. Nakagomi T, Kanemitsu H, Takagi K, Morikawa E, Kirino T, Tamura A: Effect of L-arginine and NG-nitro-L-arginine on delayed neuronal death in the gerbil

- hippocampus.. *Neurol Res* 19:426-430,1997
167. Nakaguchi H, Sasaki T, Kirino T, Okubo T, Hayashi N: [Efficacy of the TURBO-fluid attenuated inversion recovery spin echo sequence of MRI as a preoperative neuroradiological examination]. *No Shinkei Geka* 25:599-606,1997
 168. Ohwaki K, Tanishima T, Yoshimasu N, Hojo S, Fujimaki T, Kirino T: [Rapidly enlarging supratentorial ependymoma in a child presenting initially with a small calcified lesion: case report]. *No Shinkei Geka* 25:713-718,1997
 169. Sasaki T, Matsuno A, Inoh Y, Asai A, Kirino T: A rare case of hamartoma in the lateral ventricle: case report.. *Surg Neurol* 47:23-27,1997
 170. Tsutsumi K, Maeda K, Iijima A, Usui M, Okada Y, Kirino T: The relationship of preoperative magnetic resonance imaging findings and closed system drainage in the recurrence of chronic subdural hematoma.. *J Neurosurg* 87:870-875,1997
 171. Fujimaki T, Hoya K, Sasaki T, Kirino T: Recurrent trigeminal neuralgia caused by an inserted prosthesis: report of two cases.. *Acta Neurochir (Wien)* 138:1307-1309,1996
 172. Fujimaki T, Price JE, Fan D, Bucana CD, Itoh K, Kirino T, Fidler IJ: Selective growth of human melanoma cells in the brain parenchyma of nude mice.. *Melanoma Res* 6:363-371,1996
 173. Furuya K, Sasaki T, Suzuki I, Kim P, Saito N, Kirino T: Intramedullary angiographically occult vascular malformations of the spinal cord.. *Neurosurgery* 39:1123-1130,1996
 174. Ide T, Morikawa E, Kirino T: An immunosuppressant, FK506, protects hippocampal neurons from forebrain ischemia in the mongolian gerbil.. *Neurosci Lett* 204:157-160,1996
 175. Kim P, Yoshimoto Y, Iino M, Tomio S, Kirino T, Nonomura Y: Impaired calcium regulation of smooth muscle during chronic vasospasm following subarachnoid hemorrhage.. *J Cereb Blood Flow Metab* 16:334-341,1996
 176. Kirino T, Nakagomi T, Kanemitsu H, Tamura A: Ischemic tolerance.. *Adv Neurol* 71:505-511,1996
 177. Kurita H, Sasaki T, Kawamoto S, Taniguchi M, Kitanaka C, Nakaguchi H, Kirino T: Chronic encapsulated expanding hematoma in association with gamma knife stereotactic radiosurgery for a cerebral arteriovenous malformation. Case report.. *J Neurosurg* 84:874-878,1996
 178. Matsuno A, Fujimaki T, Sasaki T, Nagashima T, Ide T, Asai A, Matsuura R, Utsunomiya H, Kirino T: Clinical and histopathological analysis of proliferative potentials of recurrent and non-recurrent meningiomas.. *Acta Neuropathol (Berl)*

91:504-510,1996

179. Matsuno A, Nagashima T, Matsuura R, Tanaka H, Hirakawa M, Murakami M, Tamura A, Kirino T: Correlation between MIB-1 staining index and the immunoreactivity of p53 protein in recurrent and non-recurrent meningiomas.. *Am J Clin Pathol* 106:776-781,1996
180. Matsuno A, Sasaki T, Mochizuki T, Fujimaki T, Sanno N, Osamura Y, Teramoto A, Kirino T: A case of pituitary somatotroph adenoma with concomitant secretion of growth hormone, prolactin, and adrenocorticotrophic hormone--an adenoma derived from primordial stem cell, studied by immunohistochemistry, in situ hybridization, and cell culture.. *Acta Neurochir (Wien)* 138:1002-1007,1996
181. Mishima K, Asai A, Sugiyama A, Miyagi Y, Kitanaka C, Kagaya S, Kirino T, Kuchino Y: Increased expression of schwannoma-derived growth factor (SDGF) mRNA in rat tumor cells: involvement of SDGF in the growth promotion of rat gliomas.. *Int J Cancer* 66:352-357,1996
182. Mishima K, Higashiyama S, Nagashima Y, Miyagi Y, Tamura A, Kawahara N, Taniguchi N, Asai A, Kuchino Y, Kirino T: Regional distribution of heparin-binding epidermal growth factor-like growth factor mRNA and protein in adult rat forebrain.. *Neurosci Lett* 213:153-156,1996
183. Morikawa E, Zhang SM, Seko Y, Toyoda T, Kirino T: Treatment of focal cerebral ischemia with synthetic oligopeptide corresponding to lectin domain of selectin.. *Stroke* 27:951-955,1996
184. Morimoto T, Ide T, Ihara Y, Tamura A, Kirino T: Transient ischemia depletes free ubiquitin in the gerbil hippocampal CA1 neurons.. *Am J Pathol* 148:249-257,1996
185. Nagata K, Sasaki T, Mori T, Nikaido H, Kobayashi E, Kim P, Kirino T: Cisternal talc injection in dog can induce delayed and prolonged arterial constriction resembling cerebral vasospasm morphologically and pharmacologically.. *Surg Neurol* 45:442-447,1996
186. Nakagomi T, Asai A, Kanemitsu H, Narita K, Kuchino Y, Tamura A, Kirino T: Up-regulation of c-myc gene expression following focal ischemia in the rat brain.. *Neurol Res* 18:559-563,1996
187. Nakaguchi H, Suzuki I, Taniguchi M, Kirino T, Ichimura K, Nibu K, Yamada A, Kajikawa A: [A case of middle cranial fossa meningioma extending into the infratemporal fossa: an approach to the pterygoid extension of the sphenoid sinus via the infratemporal fossa]. *No Shinkei Geka* 24:643-648,1996
188. Nakatomi H, Sasaki T, Kawamoto S, Fujimaki T, Furuya K, Kirino T: Primary cavernous sinus malignant lymphoma treated by gamma knife radiosurgery: case

- report and review of the literature.. *Surg Neurol* 46:272-278,1996
189. Nishihara T, Hara T, Suzuki I, Kirino T, Yamakawa K: Third ventriculostomy for symptomatic syringomyelia using flexible endoscope: case report.. *Minim Invasive Neurosurg* 39:130-132,1996
 190. Chang HS, Kirino T: Quantification of operative benefit for unruptured cerebral aneurysms: a theoretical approach.. *J Neurosurg* 83:413-420,1995
 191. Furuya K, Sasaki T, Saito N, Atsuchi M, Kirino T: Primary large choroid plexus papillomas in the cerebellopontine angle: radiological manifestations and surgical management.. *Acta Neurochir (Wien)* 135:144-149,1995
 192. Furuya K, Sasaki T, Yoshimoto Y, Okada Y, Fujimaki T, Kirino T: Histologically verified cerebral aneurysm formation secondary to embolism from cardiac myxoma. Case report.. *J Neurosurg* 83:170-173,1995
 193. Kurita H, Shiokawa Y, Segawa H, Kirino T: Delayed parent artery narrowing occurring months after aneurysm surgery: a complication after aneurysm surgery--technical case report.. *Neurosurgery* 36:1225-1229,1995
 194. Matsuno A, Ohsugi Y, Utsunomiya H, Takekoshi S, Sanno N, Osamura RY, Watanabe K, Teramoto A, Kirino T: Changes in the ultrastructural distribution of prolactin and growth hormone mRNAs in pituitary cells of female rats after estrogen and bromocriptine treatment, studied using in situ hybridization with biotinylated oligonucleotide probes.. *Histochem Cell Biol* 104:37-45,1995
 195. Matsuno A, Sasaki T, Saito N, Mochizuki T, Fujimaki T, Kirino T, Takakura K: Transcavernous surgery; an effective treatment for pituitary macroadenomas.. *Eur J Endocrinol* 133:156-165,1995
 196. Matsuno A, Teramoto A, Takekoshi S, Sanno N, Osamura RY, Kirino T: Expression of plurihormonal mRNAs in somatotrophic adenomas detected using a nonisotopic in situ hybridization method: comparison with lactotrophic adenomas.. *Hum Pathol* 26:272-279,1995
 197. Matsuno A, Teramoto A, Takekoshi S, Sanno N, Osamura RY, Kirino T: HGH, PRL, and ACTH Gene Expression in Clinically Nonfunctioning Adenomas Detected with Nonisotopic In Situ Hybridization Method.. *Endocr Pathol* 6:13-20,1995
 198. Mizutani T, Aruga T, Kirino T, Miki Y, Saito I, Tsuchida T: Recurrent subarachnoid hemorrhage from untreated ruptured vertebrobasilar dissecting aneurysms.. *Neurosurgery* 36:905-911,1995
 199. Okada M, Tamura A, Urae A, Nakagomi T, Kirino T, Mine K, Fujiwara M: Long-term spatial cognitive impairment following middle cerebral artery occlusion

- in rats. A behavioral study.. *J Cereb Blood Flow Metab* 15:505-512,1995
200. Sasaki T, Hoya K, Kinone K, Kirino T: Postsurgical development of dural arteriovenous malformations after transpetrosal and transtentorial operations: case report.. *Neurosurgery* 37:820-824,1995
201. Sasaki T, Taniguchi M, Suzuki I, Kirino T: En bloc petrosectomy using a Gigli saw for petroclival lesions. Technical note.. *J Neurosurg* 83:559-560,1995
202. Toyoda T, Matsutani M, Kawai K, Iwasaki Y, Kirino T: Astrocytomas arising in the tectal region of the mesencephalon: report of two cases.. *Radiat Med* 13:315-317,1995
203. Yoshimoto Y, Kim P, Sasaki T, Kirino T, Takakura K: Functional changes in cultured strips of canine cerebral arteries after prolonged exposure to oxyhemoglobin.. *J Neurosurg* 83:867-874,1995
204. Fujimaki T, Matsutani M, Funada N, Kirino T, Takakura K, Nakamura O, Tamura A, Sano K: CT and MRI features of intracranial germ cell tumors.. *J Neurooncol* 19:217-226,1994
205. Kanemitsu H, Kirino T, Nakagomi T, Tsujita Y, Iwamoto T, Tomich JM, Tamura A: Key of induced tolerance to ischaemia in gerbil hippocampal CA1 is not at transcriptional level of hsp70 gene: in situ hybridization of hsp70 mRNA.. *Neurol Res* 16:209-212,1994
206. Kirino T: [Clinical significance of delayed nerve cell death]. *Nippon Naika Gakkai Zasshi* 83:828-833,1994
207. Kirino T: [Cerebral ischemia and neuronal death]. *No To Hattatsu* 26:130-135,1994
208. Matsuno A, Ohsugi Y, Utsunomiya H, Takekoshi S, Osamura RY, Watanabe K, Teramoto A, Kirino T: Ultrastructural distribution of growth hormone and prolactin mRNAs in normal rat pituitary cells: a comparison between preembedding and postembedding methods.. *Histochemistry* 102:265-270,1994
209. Matsuno A, Teramoto A, Takekoshi S, Utsunomiya H, Ohsugi Y, Kishikawa S, Osamura RY, Kirino T, Lloyd RV: Application of biotinylated oligonucleotide probes to the detection of pituitary hormone mRNA using northern blot analysis, in situ hybridization at the light- and electron-microscope levels.. *Histochem J* 26:771-777,1994
210. Matsuno A, Teramoto A, Yamada S, Kitanaka S, Tanaka T, Sanno N, Osamura RY, Kirino T: Gigantism in sibling unrelated to multiple endocrine neoplasia: case report.. *Neurosurgery* 35:952-955,1994
211. Mori T, Nagata K, Ishida T, Nikaido H, Kobayashi E, Sasaki T, Ohami H, Kirino

- T: Sequential morphological changes of the constrictive basilar artery in a canine model of experimental cerebral vasospasm by talc injection.. *J Vet Med Sci* 56:535-540,1994
212. Gotoh O, Tamura A, Kirino T, Sano K, Nihei H, Manaka S: [Vasospasm and its outcome after early surgery for ruptured cerebral aneurysms: relationship with the clinical grade based on the Glasgow Coma Scale]. *No Shinkei Geka* 21:221-226,1993
213. Ishiguro H, Inuzuka T, Fujita N, Sato S, Nakano R, Tamura A, Kirino T, Miyatake T: Expression of the large myelin-associated glycoprotein isoform in rat oligodendrocytes around cerebral infarcts.. *Mol Chem Neuropathol* 20:173-179,1993
214. Kirino T: Presynaptic terminals in hippocampal gliosis following transient ischemia in the Mongolian gerbil.. *Prog Brain Res* 96:261-270,1993
215. Mori T, Nagata K, Ishida T, Sasaki T, Nirei H, Hamada K, Ohami H, Kirino T: FK-506: a new immunosuppressive agent, failed to reduce cerebral vasospasm after experimental subarachnoid hemorrhage.. *J Vet Med Sci* 55:581-586,1993
216. Nagata K, Sasaki T, Iwama J, Mori T, Iwamoto S, Nirei H, Hamada K, Kirino T: Failure of FK-506, a new immunosuppressant, to prevent cerebral vasospasm in a canine two-hemorrhage model.. *J Neurosurg* 79:710-715,1993
217. Nakagomi T, Kirino T, Kanemitsu H, Tsujita Y, Tamura A: Early recovery of protein synthesis following ischemia in hippocampal neurons with induced tolerance in the gerbil.. *Acta Neuropathol (Berl)* 86:10-15,1993
218. Kirino T: [Ischemia and neuronal cell death]. *Kokyu To Junkan* 40:323-331,1992
219. Kirino T, Robinson HP, Miwa A, Tamura A, Kawai N: Disturbance of membrane function preceding ischemic delayed neuronal death in the gerbil hippocampus.. *J Cereb Blood Flow Metab* 12:408-417,1992
220. Nishiyama M, Okamoto H, Watanabe T, Hori T, Hada T, Ueda N, Yamamoto S, Tsukamoto H, Watanabe K, Kirino T: Localization of arachidonate 12-lipoxygenase in canine brain tissues.. *J Neurochem* 58:1395-1400,1992
221. Tsubokawa H, Oguro K, Robinson HP, Masuzawa T, Kirino T, Kawai N: Abnormal Ca²⁺ homeostasis before cell death revealed by whole cell recording of ischemic CA1 hippocampal neurons.. *Neuroscience* 49:807-817,1992
222. Kirino T, Tsujita Y, Tamura A: Induced tolerance to ischemia in gerbil hippocampal neurons.. *J Cereb Blood Flow Metab* 11:299-307,1991
223. Tamura A, Tahira Y, Nagashima H, Kirino T, Gotoh O, Hojo S, Sano K: Thalamic atrophy following cerebral infarction in the territory of the middle cerebral artery..

Stroke 22:615-618,1991

224. Yamamoto M, Tamura A, Kirino T, Shimizu-Sasamata M, Sano K: Effects of thyrotropin-releasing hormone on behavioral disturbances in middle cerebral artery-occluded rats.. *Eur J Pharmacol* 197:117-123,1991
225. Yoshida S, Kirino T, Tamura A, Basugi N, Sano K: Lithium ion does not protect brain against transient ischemia in gerbils.. *Stroke* 22:84-89,1991
226. Fujie W, Kirino T, Tomukai N, Iwasawa T, Tamura A: Progressive shrinkage of the thalamus following middle cerebral artery occlusion in rats.. *Stroke* 21:1485-1488,1990
227. Inuzuka T, Tamura A, Sato S, Kirino T, Toyoshima I, Miyatake T: Suppressive effect of E-64c on ischemic degradation of cerebral proteins following occlusion of the middle cerebral artery in rats.. *Brain Res* 526:177-179,1990
228. Inuzuka T, Tamura A, Sato S, Kirino T, Yanagisawa K, Toyoshima I, Miyatake T: Changes in the concentrations of cerebral proteins following occlusion of the middle cerebral artery in rats.. *Stroke* 21:917-922,1990
229. Kirino T, Tamura A, Sano K: Chronic maintenance of presynaptic terminals in gliotic hippocampus following ischemia.. *Brain Res* 510:17-25,1990
230. Sano K, Kirino T: Ammon's horn sclerosis: its pathogenesis and clinical significance.. *Tohoku J Exp Med* 161 Suppl:273-295,1990
231. Tamura A, Kirino T, Sano K, Takagi K, Oka H: Atrophy of the ipsilateral substantia nigra following middle cerebral artery occlusion in the rat.. *Brain Res* 510:154-157,1990
232. Kanemitsu H, Tamura A, Kirino T, Oka H, Sano K, Iwamoto T, Yoshiura M, Iriyama K: Allopurinol inhibits uric acid accumulation in the rat brain following focal cerebral ischemia.. *Brain Res* 499:367-370,1989
233. Kirino T: [Neuronal degeneration and glutamate]. *Rinsho Shinkeigaku* 29:1522-1525,1989
234. Nakagomi T, Sasaki T, Kirino T, Tamura A, Noguchi M, Saito I, Takakura K: Effect of cyclooxygenase and lipoxygenase inhibitors on delayed neuronal death in the gerbil hippocampus.. *Stroke* 20:925-929,1989
235. Yamamoto M, Tamura A, Kirino T, Hirakawa M, Shimizu M, Sano K: Effects of a new thyrotropin-releasing hormone analogue administered in rats 1 week after middle cerebral artery occlusion.. *Stroke* 20:1089-1091,1989
236. Yamamoto M, Tamura A, Kirino T, Shimizu M, Sano K: Effects of a new thyrotropin-releasing hormone derivative on behavioral changes after focal cerebral ischemia in rats.. *Stroke* 20:362-366,1989

237. Kanemitsu H, Tamura A, Kirino T, Karasawa S, Sano K, Iwamoto T, Yoshiura M, Iriyama K: Xanthine and uric acid levels in rat brain following focal ischemia.. *J Neurochem* 51:1882-1885,1988
238. Sasaki T, Nakagomi T, Kirino T, Tamura A, Noguchi M, Saito I, Takakura K: Indomethacin ameliorates ischemic neuronal damage in the gerbil hippocampal CA1 sector.. *Stroke* 19:1399-1403,1988
239. Yamamoto M, Tamura A, Kirino T, Shimizu M, Sano K: Behavioral changes after focal cerebral ischemia by left middle cerebral artery occlusion in rats.. *Brain Res* 452:323-328,1988
240. Kamano S, Kirino T, Mizuno S: Intrameatal aneurysm.. *Neurochirurgia (Stuttg)* 29:28-30,1986
241. Kirino T, Tamura A, Sano K: A reversible type of neuronal injury following ischemia in the gerbil hippocampus.. *Stroke* 17:455-459,1986
242. Kirino T, Tamura A, Tomukai N, Sano K: [Treatable ischemic neuronal damage in the gerbil hippocampus]. *No To Shinkei* 38:1157-1163,1986
243. Kirino T, Tamura A, Sano K: Selective vulnerability of the hippocampus to ischemia--reversible and irreversible types of ischemic cell damage.. *Prog Brain Res* 63:39-58,1985
244. Akishige S, Ishikawa I, Miyakawa E, Yamaguchi S, Lee J, Kirino T, Matsue I: [A clinical study of the relation between fusion patterns of the roots and periodontal disease in the upper molars]. *Nippon Shishubyo Gakkai Kaishi* 26:339-347,1984
245. Kirino T, Sano K: Selective vulnerability in the gerbil hippocampus following transient ischemia.. *Acta Neuropathol (Berl)* 62:201-208,1984
246. Kirino T, Sano K: Fine structural nature of delayed neuronal death following ischemia in the gerbil hippocampus.. *Acta Neuropathol (Berl)* 62:209-218,1984
247. Kirino T, Tamura A, Sano K: Delayed neuronal death in the rat hippocampus following transient forebrain ischemia.. *Acta Neuropathol (Berl)* 64:139-147,1984
248. Kirino T, Brightman MW, Oertel WH, Schmechel DE, Marangos PJ: Neuron-specific enolase as an index of neuronal regeneration and reinnervation.. *J Neurosci* 3:915-923,1983
249. Suzuki R, Yamaguchi T, Kirino T, Orzi F, Klatzo I: The effects of 5-minute ischemia in Mongolian gerbils: I. Blood-brain barrier, cerebral blood flow, and local cerebral glucose utilization changes.. *Acta Neuropathol (Berl)* 60:207-216,1983
250. Kirino T: Delayed neuronal death in the gerbil hippocampus following ischemia.. *Brain Res* 239:57-69,1982

251. Sasaki T, Wakai S, Asano T, Watanabe T, Kirino T, Sano K: The effect of a lipid hydroperoxide of arachidonic acid on the canine basilar artery. An experimental study on cerebral vasospasm.. *J Neurosurg* 54:357-365,1981
252. Hirokawa N, Kirino T: An ultrastructural study of nerve and glial cells by freeze-substitution.. *J Neurocytol* 9:243-254,1980
253. Kirino T: [Degeneration and repair of the brain after cerebral infarction--changes in the neuropil of the contralateral hemisphere in Mongolian gerbils (author's transl)]. *No To Shinkei* 32:1071-1079,1980
254. Kirino T, Sano K: Changes in the contralateral dentate gyrus in Mongolian gerbils subjected to unilateral cerebral ischemia.. *Acta Neuropathol (Berl)* 50:121-129,1980
255. Kirino T: [A new artificial respirator suited for perfusion fixation of tissues in small laboratory animals (author's transl)]. *Jikken Dobutsu* 28:551-554,1979