

BIOGRAPHICAL SKETCH

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NAME	POSITION TITLE		
Chiang, Yung-Hsiao	Director, Center for Neurotrauma and Neuroregeneration Director, Graduate Institute of Neural Regenerative Medicine Director, Division of Neurosurgery		
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Tulane University, USA	Master	2004	Medical Management
Indiana University, Indiana, USA	Ph.D.	2000	Medical Neurobiology
National Defense Medical Center, Taipei, Taiwan	M.D.	1983	Medicine

A. Positions and Honors

1. Positions and Employment

- 2007—Present Chairman, Division of Neurosurgery, Taipei Medical University Hospital, Taipei, Taiwan
- 2009—Present Director, Center for Neurotrauma and Neuroregeneration, Taipei Medical University, Taipei, Taiwan
- 2011—Present Director, Graduate Institute of Neural Regenerative Medicine, Taipei Medical University, Taipei, Taiwan
- 2012—Present President, Taiwan Chinese-Western Medicine Neurology Association, Taipei, Taiwan
- 2012—Present Professor, Surgery, Taipei Medical University School of Medicine, Taipei, Taiwan

2. Academic Honors

- 1982 Outstanding intern, Tri-Service General Hospital and National Defense, Medical Center, Taipei, Taiwan
- 1984 Outstanding teaching assistant of Surgery, Tri-Service General Hospital and National Defense, Medical Center
- 1989 Outstanding teacher of Surgery, Tri-Service General Hospital and National Defense Medical Center, Taipei,
- 1996 Graduate student award, American Society for Neural Transplantation, Clear Water, FL, USA
- 2000 Outstanding teacher of Surgery, Tri-Service General Hospital and National Defense Medical Center, Taipei,
- 2011 Outstanding teaching evaluation merit award, Taipei Medical University, Taipei
- 2012 Outstanding teaching evaluation merit award, Taipei Medical University, Taipei
- 2012 Developmental Research Grant Award, Taipei Medical University, Taipei

B. Selected Peer-reviewed Publications:

Publications most relevant to current application

- Chiang YH**, Chao DP, Chu SF, Lin HW, Huang SY, Yeh YS, Lui TN, Binns CW, Chiu WT. (2012) Early Enteral Nutrition and Clinical Outcomes of Severe Traumatic Brain Injury Patients in Acute Stage – A Multi-Center Cohort Study. *J Neurotrauma* 29(1):75-80
- Wu JC, Chen KY, Yo YW, Huang SW, Shih HM, Chiu WT, **Chiang YH**, Shiao CY(2013). Different sham procedures for rats in traumatic brain injury experiments induce corresponding increases in levels of trauma markers. *J Surg Res.*(179):138-144.
- Greig NH, Tweedie D, Rachmany L, Li Y, Rubovitch V, Schreiber S, **Chiang YH**, Hoffer BJ, Miller J, Lahiri DK, Sambamurti K, Becker RE, Pick CG(2014). Incretin mimetics as pharmacologic tools to elucidate and as a new drug strategy to treat traumatic brain injury. *Alzheimers Dement.*(10):S62-S75.

Additional publications

PUBLICATIONS

1. **Chiang YH**, Wang Y.C., Liu M.Y., Chuang K.S., Lin S.Z., Su C.F., Sun M.J. (1988) Single burr-hole craniostomy with closed-system suction drainage in treatment of chronic subdural hematomas. *J Formos. Med. Assoc.* 87:317-322
2. **Chiang YH** (1988) Injuries of cervical spine and spinal cord. *Medical Digest* 7:575-581
3. **Chiang YH** (1990) Missed injuries of the spinal cord. *Medical Digest* 10:606-608
4. Chiou T.L., Lin S.Z., Wang Y.C., Liu M.Y., Su C.F. **Chiang YH**, Yeih D.M. (1991) Intraventricular oligodendroglioma: their different clinical presentations and outcomes from parenchymal oligodendrogliomas. *J Surg. Assoc. R.O.C.* 24:681-686
5. Cheng C-Y Cheng, Fu Y-M, **Chiang YH** (1992) Traumatic intraventricular hemorrhage clinical analysis of 28 cases. *Journal of Surgical Association, R. O. C.* 25(2):1087-1093.
6. Fu Y-M, Lee W-H, Liu M-Y, **Chiang YH**, Sun M-J, Lin S-Z. (1992) Primary malignant fibrous histiocytoma of the heart with brain metastasis: case report. *Journal of Surgical Association, R. O. C.* 25(4):1286-1292.
7. Wang Y.C., **Chiang YH**, Fu Y.M., Lee W.H. (1992) Enterogenous cyst of the fourth ventricle: case report. *Chung Hua I Hsueh Tsa Chih (Taipei)* 50:331-334
8. Song W-S, Fu Y-M, Lin S-Z, Su C-F, **Chiang YH**, Liu M-Y. (1993) Unusual calvarial tumors: case reports. *Journal of Surgical Association, R. O. C.* 26(3):1820-1826.
9. Song W.S., **Chiang YH**, Chen C.Y., Lin S.Z., Liu M.Y. (1994) A simple method for diagnosing traumatic occlusion of the vertebral artery at the craniovertebral junction. *Spine* 19:837-9
10. Lin S.Z., Chiou T.L., **Chiang YH**, Song W.S. (1994) Combined treatment with nicardipine, phenobarbital, and methylprednisolone ameliorates vasogenic brain edema. *Acta Neurochir Suppl (Wien)* 60:528-30
11. Chiou T.L., **Chiang YH**, Song W.S., Lin S.Z. (1994) Transdural cortical stabbing facilitates the drainage of edema fluid out of cold-injured brain. *Acta Neurochir* 60:459-61
12. Zhou F.C., **Chiang YH** (1995) Excitochemical-induced trophic bridging directs axonal growth of transplanted neurons to distal target. *Cell Transplantation* 4:103-12
13. Lin S.Z., Chiou T.L., **Chiang YH**, Song W.S. (1995) Hemodilution accelerates the passage of plasma (not red cells) through cerebral microvessels in rats. *Stroke* 26:2166-2171
14. Lin S.Z., Chiou T.L., Song W.S., **Chiang YH** (1996) Isovolemic hemodilution normalizes the prolonged passage of red cells and plasma through cerebral microvessels in the partial ischemic of rats. *J Cerebral Blood Flow and Metabolism* 16:280-9
15. Chang Y.L., Lin S.Z., **Chiang YH**, Liu M.Y., Lee W.H. (1996) Pineal ganglioglioma with premature thelarche. Report of a case and review of the literature. *Childs Nervous System* 12:103-6
16. **Chiang YH**, Zhou F.C. (1996) Morphological differentiation of astroglial progenitor cells from EGF-responsive neurospheres in response to fetal calf serum, basic fibroblast growth factor and retinol. *Cell Transplantation* 5:179-89
17. Zhou F.C., **Chiang YH**, Wang Y. (1996) Constructing a new nigrostriatal pathway in the Parkinsonian model with bridged neural transplantation in substantia nigra. *Journal of Neuroscience* 16:6965-74
18. Zhou F.C., **Chiang YH** (1998) Long-term nonpassaged EGF-responsive neural precursor cells are stem cells. *Wound Repair and Regeneration.* 6:S337-48
19. Su, Y.H., Chao, R., **Chiang YH**, Lin, S.Z., Liu, M.Y. (1998) Burr hole craniostomy and closed system drainage for selected cases of subacute subdural hematoma. *J. Med. Sci.* 19:47-52
20. **Chiang YH**, Lin S.Z., Borlongan C.V., Hoffer B.J., Morales M., Wang Y. (1999) Transplantation of fetal kidney tissue reduces infarction volume of cerebral cortex in adult rats. *Journal of Cerebral Blood Flow and Metabolism.* 19:1329-1335
21. **Chiang YH** (1999) Prospective view of neural transplantation. *Medical Digest* 29: 421-424
22. **Chiang YH** (2000) Neural transplantation in Parkinson's diseases. *Medical Digest* 30:295-298
23. Tomac A.C., Grinberg A., Huang S.P., Norsrat C., Wang Y., Borlongan C., Lin S.Z., **Chiang YH**, Olson L., Westphal H., Hoffer B.J. (2000) Glial cell line-derived neurotrophic factor receptor $\alpha 1$ availability regulates glial cell line-derived neurotrophic factor signaling evidence from mice carrying one or two mutated alleles. *Neuroscience.* 95(4): 1011-1023
24. Wang Y., **Chiang YH**, Su T.P., Hayashi T., Morales M., Hoffer B.J., Lin S.Z. (2000) Vitamin D3 attenuates cortical infarction induced by middle cerebral arterial ligation in rats. *Neuropharmacology.* 39:873-880

25. Zhou F.C., Kelley M.R., **Chiang YH**, Young P. (2000) Three to Four-year-old nonpassaged EGF-responsive neural progenitor cells: proliferation, apoptosis, and DNA repair. *Experimental Neurology*. 164:200-208
26. Tsai T.H., Chen S.L., **Chiang YH**, Lin S.Z., Ma H.I., Kuo S.W., Tsao Y.P. (2000) Recombinant adeno-associated virus vector expressing glial cell line-derived neurotrophic factor reduces ischemia-induced damage. *Experimental Neurology* 166:266-275
27. Chen D.C., Lin S.Z., **Chiang YH**, Chen G.J., Lee C.C. (2000) MRI-guided stereotactic cingulotomy as treatment for intractable pain in metastatic musculoskeletal cancer: report of two cases. *Formosan J. Surgery* 33:296-299
28. Chen Y.H., **Chiang YH**, Hsia C.C., Chen D.C., Lin S.Z. (2001) Venous angioma with bleeding: a case report and literature review. *J Med Sci* 21(4):225-228
29. Y-H Chen, **Chiang YH**, C-C Hsia, D-C Chen, S-Z Lin. (2001) Intracranial double aneurysms associated with thrombosed arteriovenous malformation: a case report. *J Med Sci* 21(6):295-300
30. Ho N.C., Wu H.Y., **Chiang YH**, Chen G.J., Liu M.Y., Lin S.Z. (2001) Rapid growth of cerebral aneurysm: a case report. *J Med Sci* 21(6):289-294
31. **Chiang YH**, Morales M., Zhou F., Borlongan C., Hoffer B., Wang Y. (2001) Fetal intranigral ventral mesencephalon and kidney tissue bridge transplantation restores the nigrostriatal dopamine pathway in hemi-parkinsonian rats. *Brain Research* 889:200-207
32. Wang Y., Hayashi T., Chang C.F., **Chiang YH**, Tsao L.I., Su T.P., Borlongan C., Lin S.Z. (2001) Methamphetamine potentiates ischemia/reperfusion insults after transient middle cerebral artery ligation. *Stroke* 32(3):775-782
33. Wang Y., Chang C.F., Morales M., Chou J., Chen H.L., **Chiang YH**, Lin S.Z., Cadet J.L., Deng X., Wang J.Y., Chen S.Y., Kaplan P.L., Hoffer B.J. (2001) Bone morphogenetic protein-6 reduces ischemia-induced brain damage in rats. *Stroke* 32(9):2170-2178
34. Lin SJ, Lin YH, Kao CH, **Chiang YH**. (2002) Extended Anterior Subcranial Approach for Olfactory Neuroblastoma - Case Report. *The Journal of Taiwan Otolaryngology-Head and Neck Surgery* 37(2): 146-149
35. Ma H.I., Guo P., Li J., Lin S.Z., **Chiang YH**, Xiao X., Chen S.Y. (2002) Suppression of intracranial human glioma growth after intramuscular administration of an adeno-associated viral vector expressing angiostatin. *Cancer Research* 62(3):756-763
36. Ma H.I., Lin S.Z., **Chiang YH**, J Li, Tsao Y.P., Chen S.L., Xiao X. (2002) Intratumoral gene therapy of malignant brain tumor in a rat model with angiostatin delivered by adeno-associated viral (AAV) vector. *Gene Therapy* 9(1):2-11, 2002
37. Wang Y., Chang C.F., Morales M., **Chiang YH**, Hoffer J. (2002) Protective effects of Glial Cell Line-Derived Neurotrophic Factor is ischemic brain injury. *Annals of The New York Academy of Sciences* 962:423-437 (Review)
38. Chen GJ, Jeng CH, Lin SZ, Tsai SH, Wang Y, **Chiang YH**. (2002) Neural striatal Transplants restore the sensitivity to dopamine in the lesioned striatum of rats with experimental huntington's disease. *Journal of Biomedical Science*. 9(4):303-310
39. Hung K.C., Lee K.W., Hueng D.Y., **Chiang YH**, Liu M.Y., Lin S.Z., Chen G.J. (2002) Successful treatment of three intracranial mycotic aneurysms with a combination of antibiotics, endovascular and surgical therapies: a case report. *J Med Sci* 22(5):235-238
40. Hung KC, Hsia CC, **Chiang YH**, Lin SZ. (2002) Successful treatment with long-segmental transpedicular screws for a psychiatric patient with lumbar spinal fracture dislocation. *J Med Sci* 22(5):235-238
41. Shyu WC, Harn HJ, Saeki K, Kubosaki A, Matsumoto Y, Onodera T, Chen CJ, Hsu YD, **Chiang YH**. (2002) Molecular modulation of expression of prion protein by heat shock. *Mol Neurobiol* 26(1):1-12
42. Chang C.F., Lin S.Z., **Chiang YH**, Morales M., Chou J., Cein P., Chen H.L., Hoffer B.J., Wang Y. (2003) Intravenous administration of bone morphogenetic protein-7 after ischemia improves motor function in stroke rats. *Stroke* 34(2):558-564
43. Huang W.S., **Chiang YH**, Lin J C.C., Chou Y.H., Cheng C.Y., Liu R.S. (2003) Crossover study of 99mTc-TRODAT-1 SPECT and 18F-FDOPA PET in Parkinson's disease. *J Nucl Med* 44(7):999-1005
44. Yang J.L., Wang K.Y., **Chiang YH**, Peng G.S. (2003) Effect of head elevation on cerebral blood flow velocity in post-cerebral operation patients. *J Nurs Res* 11(2):129-136
45. Lee C.C., Lin S.Z., Wang Y., Lin J.J., Liu J.Y., Chen G.J., **Chiang YH**, Liu J.C., Zhou F.C. (2003) First human ventral mesencephalon and striatum cogafting in a Parkinson patient. *Acta Neurochir* 87:159-162
46. Harvey, B.K., Chang, C.F., **Chiang YH**, Bowers, W.J., Morales, M., Federoff, H.J., Hoffer, B.J., Wang, Y. (2003) HSV amplicon delivery of glial cell line-derived neurotrophic factor is neuroprotective against ischemic injury.

- Exp.Neurol. 183(1):47-55.
47. Chen H.L., Lein P.J., Wang J.Y., Gash D., Hoffer B.J., **Chiang YH** (2003) Expression of bone morphogenetic proteins in the brain during normal aging and in 6-hydroxydopamine-lesioned animals. *Brain Research* 994(1):81-90.
 48. Wnag Y, Chang CF, Morales M, **Chiang YH**, Harvey BK, Su TP, Tsao LI, Chen S. (2003) Thiemermann C. Diadenosine tetraphosphate protects against injuries induced by ischemia and 6-hydroxydopamine in rat brain. *J Neurosci.* 23(21):7958-65.
 49. Tsai TH, Chen SL, Xiao X, **Chiang YH**, Lin SZ, Kuo SW, Liu DW, Tsao YP. (2003) Gene treatment of cerebral stroke by rAAV vector delivering IL-1ra in a rat model. *Neuroreport.* 14(6):803-7.
 50. Hueng DY, Liu MY, Ma HI, **Chiang YH**. (2003) Percutaneous vertebroplasty in the treatment of osteoporotic vertebral compression fractures. *Chinese J Occup Med* 10(4):229-233
 51. Hung KC, Ju DT, Chang CF, Ma HI, Chen GJ, Liu MY, **Chiang YH**. (2004) Surgery of pathological fracture in metastatic cervical spinal tumor with PMMA and titanium rod. *Formos J. Surg.* 37:105-111
 52. Chen Y.H., Lin S.Z., **Chiang YH**, Ju D.T., Liu M.Y., Chen G.J. (2004) Supraorbital keyhole surgery for optic nerve decompression and dura repair. *Journal of Neurotrauma* 21(7):976-981
 53. Cheng CM, **Chiang YH**, Fan YM, Huang WS, Cheng CY. (2004) Localization of abscess in dural graft with fusion image of gallium-67 CT-SPECT. *核子醫誌* 17:225-228
 54. Chen CW, **Chiang YH**, Chen CY, Lee HS, Su YH. (2005) Pituitary metastasis from bronchogenic adenocarcinoma. *J Med Sci* 25(3):153-156
 55. Chen HC, Lee JC, Lin YL, **Chiang YH**, Kao CH, Wang HW. (2005) Endoscopic Transseptal Transsphenoidal Pituitary Surgery via Columellar Approach. *The Journal of Taiwan Otolaryngology-Head and Neck Surgery* 40(3)98-102
 56. **Chiang YH**, Borlongan C.V., Zhou F.C., Hoffer B.J., Wang Y. (2005) Transplantation of fetal kidney cells: neuroprotection and neuroregeneration. *Cell Transplantation* 14(1):1-9
 57. Cheng C.M., **Chiang YH**, Nieh S. (2006) Pineal region teratoma with high serum and CSF alpha-fetoprotein levels. *J. of Clinical Neuroscience* 13:257-259
 58. Chen CY, Chen RJ, Lu LH, **Chiang YH**, Fang JF, Lee MJ, Lin MR. (2006) One-year mortality and its associated factors in persons with traumatic spinal cord injury. *FJPT(物理治療雜誌)* 31(2):87-97
 59. Hsieh CT, Pai CC, Tsai TH, **Chiang YH**, Su YH. (2006) Hepatic cerebrospinal fluid pseudocyst: a case report and review of the literature. *Neurol India* 54:86-88
 60. Hsieh CT, Tsai WC, Tsai DH, **Chiang YH**, Ju DT. (2006) Simultaneous multiple spontaneous intracerebral hemorrhages: a case report and literature review. *Rivista Neuroradiologia* 19:220-222
 61. Tsai TH, Chen SL, Xiao X, **Chiang YH**, Tsao YP. (2006) Gene therapy of focal cerebral ischemia using defective recombinant adeno-associated virus vectors. *Front Biosci* 11:2061-2070 (Review)
 62. Hsieh CT, Lin EY, Tsai WC, Tsai TH, **Chiang YH**, Chang CF. (2006) Intradural extramedullary spinal inflammatory myofibroblastic tumor: a case report and review of literature. *J Med Sci* 26(4):133-136
 63. **Chiang YH**, Lin SZ, Zhou FC. (2006) Bridging nigrostriatal pathway with fibroblast growth factor primed peripheral nerves and fetal ventral mesencephalon transplant recuperates from deficits in Parkinsonian rats. *Cell Transplantation* 15:475-482
 64. **Chiang YH**, Chen GJ, Shen H, Chou J, Wang Y. (2006) Histogranin reduced brain injury after transient focal ischemia in rats. *Neuroscience Letter* 406(3):211-215
 65. Liu WH, Hsieh CT, Tsai TH, **Chiang YH**, Su YH. (2006) Samonella spondylitis in the thoracic spine: a case report and review of literature. *J Med Sci* 26(6):223-226
 66. Wu CC, Hsu YH, **Chiang YH**. (2006) Operation for degenerative lumbar disorder complicated with spinal epidural hematoma in a uremic patient- a case report. *J Med Sci* 26(6):219-222
 67. Hsieh CT, Chang CF, Lin EY, Tsai TH, **Chiang YH**, Ju DT. (2006) Spontaneous spinal epidural hematomas of cervical spine: report of 4 cases and literature review. *Am J Emergency Medicine* 24(6):736-740.
 68. Hung KC, Lee KW, Lin SZ, Liu MY, **Chiang YH** (2007) Successful staged obliteration of three unruptured cerebral aneurysms by clipping, coiling, and proximal occlusion: report of a case. *Formos J Surg* 40:36-41
 69. Hsieh CT, **Chiang YH**, Wu HY. (2007) Intracranial Arteriovenous Malformation Associated with Two Flow-Related Aneurysms: Report of a Case. *Formos J Surg* 40(4):153-157
 70. Wu DL, Chang CF, **Chiang YH**. (2007) Multiple intratumoral hemorrhage at sites remote from the craniotomy site. *J Med Sci* 27(4):167-169

71. Hsieh CT, **Chiang YH**, Tang CT, Sun JM, Ju DT (2007) Delayed traumatic thoracic spinal epidural hematoma: a case report and literature review. *Am J Emerg Med* 25(1):69-71.
72. Hsieh CT, Sun JM, Tsai WC, Tsai TH, **Chiang YH**, Liu MY. (2007) Skull metastasis from hepatoellular carcinoma. *Acta Neurochir (Wien)* 149(2):185-190 (Review)
73. Hsieh CT, Lin EY, Tsai TH, **Chiang YH**, Ju DT. (2007) Delayed rupture of pre-existing cerebral aneurysm in a young patient with minor head trauma. *J Clin Neurosci* 14(11):1120-1122.
74. Lin CS, Lin SH, **Chiang YH**, Sheu LF, Chao TY. (2007) Diabetes insipidus revealing an isolated pituitary stalk metastasis of breast cancer. *Eur J Neurol* 14(7): e11-e12.
75. Chen YH, Harvey BK, Hoffman AF, Wang Y, **Chiang YH***, Lupica CR (2008) MPTP-induced deficits in striatal synaptic plasticity are prevented by glial cell line-derived neurotrophic factor expressed via an adeno-associated viral vector. *FASEB J* 22(1):261-275.
76. Hsieh CT, Chen CY, **Chiang YH**, Chang CH, Chang CF. (2008) Role of diffusion tensor imaging in a patient with spontaneous intracerebral hematoma treated by stereotactic evacuation. *Surg Neurol* 70(1):75-78.
77. Hung KC, **Chiang YH**. (2008) Spinal arteriovenous fistulae with a concomitant cauda equine schwannoma. *Spine J* 8(2):391-393.
78. Liu WH, Hsieh CT, **Chiang YH**, Chen GJ. (2008) Spontaneous spinal epidural hematoma of thoracic spine: a rare case report and review of literature. *Am J Emerg Med* 26(3):384.e1-2. (Review)
79. Lin EY, Hsieh CT, Lin CS, Tsai TH, **Chiang YH**. (2008) Keyhole surgery for isolated pituitary stalk metastatic tumors: a case report and review of the literature. *Minim Invasive Neurosurg* 51(4):222-224. (review)
80. Hsieh CT, Wu CC, **Chiang YH**, Chang CF. (2008) Stereotactic aspiration of enlarged intracerebral hematoma caused by intraprocedural perforation of aneurysm during coil embolization. *Surg Neurol* 69(6):633-636.
81. Wu JC, Tang CT, Wu DL, Tsai TH, **Chiang YH***. (2008) Treatment of adjacent vertebral fractures following multiple-level spinal fusion. *Acta Neurochir Suppl* 101:153-155.
82. Chiu WT, **Chiang YH**. (2008) Reconstructive neurosurgery. Preface. *Acta Neurochir Suppl.* 101:V-VI.
83. Hsieh CT, **Chiang YH**, Tsai WC, Sheu LF, Liu MY. (2008) Primary spinal epidural Ewing sarcoma: a case report and review of the literature. *Turkish Journal of Pediatrics* 50(3):282-286. (review)
84. Lin JH, Tsai TH, **Chiang YH**, Wu HY, Hsia CC, Chen GJ, Liu MY. (2008) Comparison of Outcomes for Posterior Lumbar Interbody Fusion (PLIF) between Spinal Block Bullet and Fusion Cages. *J Med Sci* 28(5):193-198.
85. Cheng CM, Chang CF, Ma HI, **Chiang YH**, McMenomey SO, Delashaw JB Jr. (2009) Modified orbitozygomatic craniotomy for large medial sphenoid wing meningiomas. *J Clin Neurosci.* 16(9):1157-60.
86. Chen KY, Ma HI, **Chiang YH***. (2009) Percutaneous transpedicular vertebroplasty with polymethyl methacrylate for pathological fracture of the spine. *J Clin Neurosci.* 16(10):1300-4.
87. Lin JH, Tsai DH, **Chiang YH***. (2009) A primary sellar esthesioneuroblastomas with unusual presentations: a case report and reviews of literatures. *Pituitary.* 12(1):70-5. (Review)
88. Lin CM, Lin JW, Chen YC, Shen HH, Wei L, Yeh YS, **Chiang YH**, Shih R, Chiu PL, Hung KS, Yang LY, Chiu WT. (2009) Hyaluronic acid inhibits the glial scar formation after brain damage with tissue loss in rats. *Surg Neurol* 2:S50-S54.
89. Lin JW, Shih CM, Chen YC, Lin CM, Tsai JT, **Chiang YH**, Shih R, Chiu PL, Hung KS, Yeh YS, Wei L, Chiu WT, Yang LY. (2009) Biochemical alteration in cerebrospinal fluid precedes behavioral deficits in Parkinsonian rats induced by 6-hydroxydopamine. *Surg Neurol* 2:S55-S65.
90. Liao KH, Chang CK, Chang HC, Chang KC, Chen CF, Chen TY, Chou CW, Chung WY, **Chiang YH**, Hong KS, Hsiao SH, Hsu YH, Huang HL, Huang SC, Hung CC, Kung SS, Kuo KN, Li KH, Lin JW, Lin TG, Lin CM, Su CF, Tsai MT, Tsai SH, Wang YC, Yang TY, Yu KF, Chiu WT. (2009) Clinical practice guidelines in severe traumatic brain injury in Taiwan. *Surg Neurol* 2:S66-73.
91. Chiu WT, Lin HC, Lam C, Chu SF, **Chiang YH**, (2010) Tsai SH. Review paper: epidemiology of traumatic spinal cord injury: comparisons between developed and developing countries. *Asia Pac J Public Health* 22(1):9-18.
92. Chiu WT, **Chiang YH**, Hung KS, Tsai SH, Lin JW. (2010) The injury epidemiology transition in South Asia. *Injury* 41(7):1064-5.
93. Hsieh CT, **Chiang YH**, Chiu TF, Sun JM, Chang CF. (2010) A pitfall in neck pain: Occult odontoid fracture. *J Emerg Med* 38(5):593-596.
94. Luo Y, Wang Y, Kuang SY, **Chiang YH**, Hoffer B. (2010) Decreased level of Nurr1 in heterozygous young adult mice leads to exacerbated acute and long-term toxicity after repeated methamphetamine exposure. *PLoS One.* 5(12):e15193
95. Shena H, Harvey BK, **Chiang YH**, Pickc CG, Wang Y. (2011) Methamphetamine potentiates behavioral and

- electrochemical responses after mild traumatic brain injury in mice. *Brain Research* 1368:248-253
96. Chiu WT, Chu SF, Chang CK, Lui TN, ***Chiang YH**. (2011) Implementation of a motorcycle helmet law in Taiwan and traffic deaths over 18 years. *JAMA*. 306(3):267-8
 97. Chen TH, Lin MS, Kung WM, Hung KS, **Chiang YH**, Chen CH. (2011) Combined ventriculoperitoneal shunt blockage, viscus perforation and migration into urethra, presenting with repeated urinary tract infection. *Ann R Coll Surg Engl* 93:e151-e153.
 98. Liu WH, **Chiang YH**, Hsieh CT, Sun JM, Hsia CC. (2011) Transorbital Penetrating Brain Injury by Branchlet: A Rare Case. *J Emerg Med* 41(5):482-5
 99. **Chiang YH**, Chao DP, Chu SF, Lin HW, Huang SY, Yeh YS, Lui TN, Binns CW, Chiu WT. (2012) Early Enteral Nutrition and Clinical Outcomes of Severe Traumatic Brain Injury Patients in Acute Stage – A Multi-Center Cohort Study. *J Neurotrauma* 29(1):75-80
 100. Chen KY, Wu CC, Chang CF, Chen YH, Chiu WT, Lou YH, Chen YH, Shih HM, ***Chiang YH**. (2012) Suppression of Etk/Bmx protects against ischemic brain injury. *Cell Transplantation* 21(1):345-54
 101. Wu CC, Chen KY, Yu YW, Huang SW, Shih HM, Chiu WT, ***Chiang YH**, *Shiau CY. (2012) Location and Level of Etk expression in neurons are associated with varied severity of traumatic brain injury. *PLoS One* 7(6):e39226
 102. Wu JC, Chen KY, Yo YW, Huang SW, Shih HM, Chiu WT, ***Chiang YH**, *Shiau CY. (2013) Different sham procedures for rats in traumatic brain injury experiments induce corresponding increases in levels of trauma markers. *J Surg Res*. 179(1):138-44.
 103. Eakin K, **Chiang YH**, Hoffer BJ, Rosenheim H, Greig NH, Miller JP. (2013) Exendin-4 ameliorates traumatic brain injury-induced cognitive impairment in rats. *PLOS One*. 8(12):e82016
 104. Hsieh TH, Huang YZ, Chen JJ, Rotenberg A, **Chiang YH**, Chang Chien WS, Chang V, Wang JY, Peng CW. (2013) Novel use of theta burst cortical electrical stimulation for modulating motor plasticity in rats. *Journal of Medical and Biological Engineering*. Doi: 10.5405/jmbe.1659
 105. Chen YH, Kuo TT, Chu MT, Ma HI, **Chiang YH**, Huang EY. (2013) Postnatal systemic inflammation exacerbates impairment of hippocampal synaptic plasticity in an animal seizure model. *Neuroimmunomodulation*. 20(4):223-32.
 106. Wu JC, Chen KY, Yo YW, Huang SW, Shih HM, Chiu WT, **Chiang YH**, Shiau CY. (2013) Different sham procedures for rats in traumatic brain injury experiments induce corresponding increases in levels of trauma markers. *J Surg Res*. 179(1):138-44.
 107. Chiu HY, Lo WC, **Chiang YH**, Tsai PS. (2014) The effects of sleep on the relationship between brain injury severity and recovery of cognitive function: A prospective study. *Int J Nurs Stud*. 51(6):892-9.
 108. Hsieh TH, Huang YZ, Rotenberg A, Pascual-Leone A, **Chiang YH**, Wang JY, Chen JJ (2014) Functional dopaminergic neurons in substantia nigra are required for transcranial magnetic stimulation induced motor plasticity. *Cereb Cortex*. 2014 Jan 22. [Epub ahead of print]
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ABSTRACTS

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D. Research Support

Current

MOST 101-2632-B-038-001-MY3 2012-2015 Chiang, Yung-Hsiao PI
New Strategies of Parkinson's Disease Treatment

MOST 102-2314-B-038-023-MY3 2013-2016 Chiang, Yung-Hsiao PI
A Multidisciplinary Study of the Pathophysiology of Blast-Induced Mild Traumatic Brain Injury.