

# CURRICULUM VITAE

## PERSONAL

**Shinn-Zong Lin, M.D., Ph.D. (John Lin)**

Professor of Neurosurgery of China Medical University

Superintendent, Tainan Municipal An-Nan Hospital-China Medical University

Superintendent, China Medical University Beigang Hospital

Vice Superintendent, Center for Neuropsychiatry, China Medical University Hospital

President, Taiwan Neurosurgical Society

## EDUCATION

Medical Education (M.D. Program):

National Defense Medical Center, Taipei, Taiwan.

August, 1973 --- July, 1980

Neurosurgical Board Program: Residency in Neurosurgery,

Tri-Service General Hospital, Taipei, Taiwan.

July, 1980 --- June, 1986

Ph.D., Program:

Graduate Student, Dept. Physiology and Biophysics, and

Dept. Neurological Surgery, State University of New York at Stony Brook. U.S.A.

August, 1986 --- August, 1989

Master of Medical Management, Tulane University, U.S.A.

October 1998- May 2000

## ACADEMIC APPOINTMENT

Professor of Neurosurgery

China Medical University

Taichung, Taiwan 2007 ~ present

Professor of Neurosurgery

Tzu Chi University

Hualien, Taiwan 2001/12 ~ 2007/7

Professor of Neurosurgery

National Defense Medical Center

Taipei, Taiwan 1996 ~ 2001/11

Associate professor of Neurosurgery

National Defense Medical Center

Taipei, Taiwan 1989 ~ 1995

## AREAS OF EXPERTISE

Neuroscience

Neurosurgery  
Translational Science  
Hospital Management

### **LICENSES**

Medical License, Taiwan, 1980  
Board of Surgery, Taiwan, 1984  
Board of Neurosurgery, Taiwan, 1985  
Board of Endoscopic Surgery, Taiwan 1996  
Board of Critical Care, Taiwan 1999  
Board of Hospital management, Taiwan, 2001  
Certified Physician Investigator (C.P.I.), 2006

### **PROFESSIONAL SOCIETIES ADMINISTRATOR / MEMBER**

1. President, Taiwan Neurosurgical Society
2. President, International College of Surgeons, Taiwan Section
3. President, Taiwan Chinese-Western Medicine Neurology
4. President, Taiwan Neuroscience Society
5. President, Association International Society of Neural Transplantation and Repair
6. Board Member, Taiwan Surgical Association
7. Board Member, Taiwan Neurosurgical Society
8. Founder, Taiwan Neurosurgical Society
9. Founder, Taiwan Neuroscience Society
10. Founder, Taiwan Stroke Society
11. Executive Member, Asian Congress of Neurosurgery
12. Board Member, Taiwan College of Healthcare Executives
13. Chinese Pharmacological Society
14. Chinese Physiological Society
15. The New York Academy of Sciences
16. International Society of Cerebral Blood Flow and Metabolism
17. International Stroke Society
18. World Federation of Neurosurgical Society
19. American Association for the Advancement of Science
20. American Association of Neurological Surgery
21. Congress of Neurological Surgery
22. American Society of Neural Transplantation and Repair
23. American Association of Gene Therapy
24. Taiwan College of Healthcare Executives
25. Academy of Pharmaceutical Physicians and Investigators & Association of Clinical Research Professionals

### **JOURNAL EDITOR / PUBLISHER**

Coeditor-in-chief  
Cell Transplantation - The Regenerative Medicine Journal, 2012~present

Editorial-Board

Transplantation Technology; 2013~present

Associate Editor

Tissue Engineering and Regenerative Medicine Journal, 2012~present

Editorial Board

Technology and Innovation – Proceedings of the National Academy of Inventors, 2011 ~ present

Editorial Board

Cell Transplantation - The Regenerative Medicine Journal, 2008 ~ present

Editorial Board

Neural Regeneration Research, 2007 ~ present

Publisher

Taiwan Chinese-Western Medicine Neurology Journal, 2007 ~ present

Editorial Board

Surgical Neurology, Taiwan Supplement, 2006- present

Editor

Experimental Neurology

Editorial Advisory Board

Formosan Journal of Surgery, 2003 ~ 2006

Editorial Board

Acta Neurologica Taiwanica, 2002 ~ 2006

Editorial Board

Tzu Chi Medical Journal, 2001/7 ~ 2005

Publisher

Tzu Chi Nursing Journal, 2001/7 ~ 2007/7

Editorial Board

Medical Digest, 1985-1986

## **HOSPITAL ADMINISTRATOR**

Superintendent

China Medical University Beigang Hospital

Yunlin, Taiwan 2009 ~ present

Vice Superintendent

Center for Neuropsychiatry, China Medical University Hospital

Taichung, Taiwan 2007 ~ present

Superintendent

Tzu Chi General Hospital

Hualien, Taiwan 2002/6 ~ 2007/4

Vice-Superintendent  
Tzu Chi General Hospital  
Hualien, Taiwan 2001/12 ~ 2002/6

Chairman of Neuro-Medical Scientific Center,  
Tzu Chi General Hospital  
Hualien, Taiwan 2001/12 ~ 2007/7

Chairman, Department of Neurological Surgery  
Tri-Service General Hospital  
Taipei, Taiwan 2000 ~ 2001/11

Chairman, Division of Neurosurgery  
Tri-Service General Hospital  
Taipei, Taiwan 1997 ~ 2000

### **INTERNATIONAL MEETING ADMINISTRATOR**

1. Chairman of Scientific program, Pan Pacific Symposium on Stem Cell Research, 2008-2013
2. President, 9<sup>th</sup> International Neural Transplantation and Repair Society, 2005
3. Executive President, Brain '01, the XXth the International Symposium on Cerebral Blood Flow, Metabolism and Function & International Conference on Quantification of Brain Function with PET, 2001
4. Vice President, Asia Congress of Neurological Surgery, 2000-2001
5. President, Pan Pacific Symposium on Stem Cells Research, 2008-2010
6. President, Pan Pacific Symposium on Stem Cells and Cancer Research, 2011-2012
7. President, 8th Asia Pacific Symposium on Neural Regeneration, 2012

### **HONORS AND AWARDS**

1. Outstanding Intern. Veteran General Hospital and National Defense Medical Center, 1979-1980.
2. Outstanding Graduate Student, National Defense Medical Center, 1980.
3. Outstanding Physician, Tri-Service General Hospital, 1984.
4. Award of Ph.D. degree program from The National Science Council, R.O.C. 1986-1989.
5. Young Investigator Award, The First International Stroke Congress, 1989.
6. Outstanding Teacher, National Defense Medical Center, 1991.
7. Outstanding Teacher, National Defense Medical Center, 1993.
8. Outstanding Teacher, National Defense Medical Center, 1994.
9. Outstanding Army Officer, National Defense Department, 1996.
10. Chin-Si Wang Award, 1996.
11. Visiting Professor, Neurosurgery, Hospital Lariboisiere, Paris, France, 1996
12. Visiting Professor, National Institute of Drug Abuse, National Institute of Health, Batimore, USA, 1998.
13. Chai-Sin Yin Neuroscience Award, 1999.
14. Excellent Paper in Millennium of CVDPTF, 2000.
15. Y.C.Wang award of Neuroscience Society (R.O.C.), 2000 .

16. The Best Paper of Year 2000, International College of Surgeons, Taiwan, 2000.
17. International Surgical College Outstanding Paper 2005
18. Outstanding alumni 2006, National Defense Medical Center, North America.
19. Outstanding Researcher, School of Medicine, China Medical University, Taiwan, 2008
20. Outstanding Researcher, School of Medicine, China Medical University, Taiwan, 2009
21. 2009 Bernard Sanberg Memorial Award, 17th Annual Conference of the American Society for Neural Therapy & Repair, California, USA, 2010
22. 2012 Charter Fellow, National Academy of Inventor, USA, 2013
23. Taiwan Service and Contribution Award, Taipei (HOST) Lion Club 60<sup>th</sup> Charter Anniversary, Taiwan, 2013

## **CLINICAL TRIALS**

1. Fetal niagral transplantation in Parkinson's disease, 1996.
2. Granulocyte Colony-Stimulating factor for acute ischemic stroke: a randomized controlled trial, 2003
3. GCSF activated peripheral blood CD34 stem cell intercerebral transplantation in old stroke patients, phase I/IIa trial, 2004
4. GCSF activated peripheral blood CD34 stem cell intercerebral transplantation in old stroke patients, phase II trial, 2008
5. Bp Wafer for treating brain malignant tumor filed IND to U.S.A. FDA & Taiwan FDA, 2011

## **PATENTS**

### **(A) Issued:**

#### **—New Drug Development—**

1. Entitled: Method for Extracting Antineoplastic Components from Bupleurum Scorzonerifolium(**USA**)  
Patent No: US7,348,032 B2  
Patent period: 2008/3/25-2023/10/21
2. Entitled: Method for Extracting Antineoplastic Components from Bupleurum Scorzonerifolium(**JAPAN**)  
Patent No: JP2005035977A  
Patent period: 2008/3/25-2023/10/21
3. Entitled: Angelicae sinensis extracts useful for treatment of cancers (**USA**)  
Patent No: US7,455,861 B2  
Patent period: 2008/11/25-2029/11/24
4. Entitled: Angelicae sinensis extracts useful for treatment of cancers (**HONG KONG**)  
Patent No: HK1100484  
Patent period: 2005/11/08-2025/11/07
5. Entitled: Angelicae sinensis extracts useful for treatment of cancers (**CHINA**)  
Patent No: CN1943606B  
Patent period: 2010/5/12-2025/11/07

6. Entitled: Pharmaceutical Composition for Inhibiting/Treating Brain Cancer (TAIWAN)  
Patent certificate: I298259  
Patent period: 2008/07/01-2025/10/6
7. Entitled:  $\gamma$ -butyrolactone compound and pharmaceutical composition thereof(USA)  
Patent certificate: US 7,902,255 B2  
Patent period: 2011/3/8-2031/3/7
8. Entitled: 南柴胡生藥萃取物以及用於治療哺乳動物細胞增生疾病之醫藥組成物 (TAIWAN)  
Patent certificate: I315985  
Patent period: 2009/10/21-2026/10/20
9. Entitled: 檢測非典型肺炎病毒之雙核酸分子及利用其檢測非典型肺炎病毒之方法及檢測套組(TAIWAN)  
Patent certificate: I318687  
Patent period: 2009/12/21-2026/12/20
10. Entitled: 新穎  $\gamma$ -丁內酯化合物(TAIWAN)  
Patent certificate: I324996  
Patent period: 2010/05/21-2027/5/20
11. Entitled: Angelicae sinensis extracts useful for treatment of cancers (SINGAPORE)  
Patent certificate: 121980  
Patent period: 2012/10/7-2025/10/7
12. Entitled: Pharmaceutical composition comprising Z-butylidenephthalide for treating brain cancer or reducing temozolomide-resistance of brain cancer cells

—Stem Cell—

1. Entitled: Methods of increasing Neurotrophic factor expression (USA)  
Patent No: US7,569,545 B2  
Patent period: 2009/8/4-2025/5/20
2. Entitled: Method of treating brain tissue damages(USA)  
Patent No: US7,427,597 B2  
Patent period: 2008/9/23-2025/11/21
3. Entitled: Methods for preparing human umbilical Cord serum as a culture medium and culturing stem cells (TAIWAN)  
Patent certificate: I300095  
Patent period: 2008/08/21-2025/7/19
4. Entitled: Medical Use of Secretoneurin For Treating Brain Tissue Damages (TAIWAN)  
Patent certificate: I305496  
Patent period: 2009/01/21-2026/02/02
5. Entitled: Pluripotent Olfactory Stem Cells (TAIWAN)  
Patent certificate: I313301  
Patent period: 2009/08/11-2026/01/09
6. Entitled: Brain tissue damages(USA)  
Patent certificate: US 7,923,007 B2  
Patent period: 2011/4/12-

7. Entitled: A Kit For Treating Brain Tissue Damage (TAIWAN)  
Patent certificate: I363632  
Patent period: 2012/05/11

—Medical Devices—

1. Entitled: Magnetic Separation Device and Method For Separating Magnetic Substances In Bio-Samples (TAIWAN)  
Patent certificate: I362964  
Patent period: 2012/05/01-2029/12/22

**(B)Applied:**

1. 20060264365 / Treatment of brain tissue damage (USA)
2. 20060263332 / Therapies for brain tissue damage (USA)
3. 20060110469 / Angelicae Sinensis Extracts Useful for Treatment of Cancers (USA)
4. 20070141035 / Pluripotent olfactory stem cells (USA)
5. 20070116677 / Brain tissue damages (USA)
6. 20080050350 / Method for introducing an exogenous gene into a stem cell (USA)
7. 20090111870 / Angelicae Sinensis Extracts Useful for Treatment of Cancers (USA)
8. 20110147278 / Magnetic Separation Device And Method For Separating Magnetic Substance In Bio-Samples (USA)
9. 20100028461 / Gamma-butyrolactone compound and pharmaceutical composition thereof (USA)
10. 20100310530 / Cell Therapy for Brain Tissue Damage (USA)
11. 20110178171 / Compounds For Cancer Therapy (USA)
12. 20110165201 / Anticancer Formulation (USA)
13. 20110256107 / Treatment Of Brain Damage Using Umbilical Cord Blood Cells (USA)
14. 20120178803 / Method For Treating Brain Cancer or Reducing Temozolomide-Resistance Of Brain Cancer Cells (USA)
15. EP2438914 (A1) / Pharmaceutical composition comprising Z-butylidenephthalide for treating brain cancer or reducing temozolomide-resistance of brain cancer cells (Europe)

**TECHNOLOGY TRANSFER**

1. Technology name: 皮下注射G-CSF合併週邊血造血幹細胞移植治療巴金森氏病及慢性中風  
Patent: Methods of increasing Neurotrophic factor
2. Technology name:  $\gamma$ -butyrolactone compound and pharmaceutical composition thereof  
Patent No.: US 7,902,255B2  
Patent:  $\gamma$ -butyrolactone compound and pharmaceutical composition thereof

3. Technology name: 以生物可分解聚酸酐攜帶正丁烯基本酐作為抑制惡性腦瘤生長的給藥裝置之研究  
Patent No.: 20100028461 (USA, Applied)  
Patent: Gamma-butyrolactone compound and pharmaceutical composition thereof
4. Technology name: Synergistic Pharmaceutical Composition for the Treatment of Cancer: Treatment of temozolomide(TMZ)-resistant brain tumor by (Z)-butylidenephthalide 用於治療癌症之協同醫藥組合物：(Z)-亞丁基苯酚治療莫唑胺(TMZ)抗藥性人類惡性腦膠質瘤  
Patent No.: 20110165201 (USA, Applied)  
Patent: Anticancer Formulation (USA)

## **RESEARCH PROGRAMS**

1. Brain edema and heat stroke in rats. July, 1983 - June, 1984.
2. Innervations of middle cerebral arteries in cats. July, 1983 - June, 1984.
3. Effects of cervical sympathectomy on heat stroke. Aug. 1984 - July, 1985.
4. The pathophysiology and pharmacology of cerebral vasospasm in dogs. July, 1985 – June, 1986.
5. Effects of isovolemic hemodilution on cerebral microcirculation in normo- and hypertensive rats with carotid arterial ligation(I). Feb. 1990 - Jan. 1992.
6. Autoregulation of cerebral blood flow in head injury and stroke patients. July, 1990 - June, 1991.
7. Effects of isovolemic hemodilution on cerebral microcirculation in normo- and hypertensive rats with carotid arterial ligation(II), Feb. 1992 - Jan.. 1994.
8. Effects of cortical stripping on brain edema. July, 1991 - June, 1992.
9. Interstitial chemotherapy with novel 5-FU prodrug long acting dosage forms for malignant gliomas. July, 1992 - June, 1995.
10. The role of the trigeminal nerve and parasympathetic nerve on the alteration of local cerebral blood flow of adult spontaneously hypertensive rats in cold environment. Feb. 1992 - Jan. 1993.
11. Combined treatment with nicardipine, phenobarbital and methylprednisolone on vasogenic brain edema. July, 1992 - June, 1993.
12. Effects of hemodilution on local cerebral blood flow in rats with heat stress. July, 1992 - June, 1993.
13. Quantization of dopamine neurons in human sympathetic ganglia by immunocytochemistry. Feb. 1992 - Jan. 1993.
14. The role of the sphenopalatine, superior cervical and trigeminal ganglia on the alteration of local cerebral blood flow of normo-and hyper-tensive rats in cold environment. Feb. 1993 - Jan. 1996.
15. Transplantation of human sympathetic ganglia into the brain of parkinsonian rats. Feb. 1993 – July, 1995.
16. Effects of chronic denervation of cerebral arteries in rats with heat stroke (1). Aug. 1993 – July, 1995.



17. Cografts of human substantia nigra and basal ganglia in parkinsonian rats. Feb. 1993 – July, 1995.
18. The effect of ATP-MgC<sub>12</sub> on cerebral microcirculation, neuron and animal survival rats after ischemic-reperfusion injury. July, 1993 – June, 1994.
19. The role of NO on the regulation of local cerebral blood flow and its effects on cerebral edema and infarction (1). Feb. 1994 – July, 1995.
20. Effects of chronic denervation of cerebral arteries in rats with heat stroke (2). Aug. 1994 - July. 1995.
21. Potential pathophysiological roles of nitric oxide in traumatic brain swelling. Aug. 1994 – July, 1995.
22. Fetal mesencephalic transplantation for patients with Parkinson's disease. Aug. 1995 – July, 1997.
23. The role of NO on the regulation of local cerebral blood flow and its effects on cerebral edema and infarction (III) Aug. 1995 – July, 1996.
24. The protective effects of nerve trophic factors on ischemic brain. Aug. 1996 – July, 1997.
25. Fetal mesencephalic transplantation for parkinsonian patients and monkeys. Aug. 1996 – July, 1999.
26. The role of nitric oxide on cerebral ischemia induced by heat stress. July, 1996 – June, 1997.
27. Cerebral infarction and NO release in hypertensive animals. Aug. 1997 - July 1998
28. Neural transplantation in CNS injury: F-DOPA PET in neural transplantation. July, 1998 – June, 2000. NSC.
29. The role of poly (ADP-Ribose) synthetase on ischemic brain injury. Aug. 1998 – July 1999. NSC.
30. Gene therapy of brain tumors by herpes simplex virus type 1 thymidine kinase gene delivered by adenovirus and angiostatins gene delivered by adeno-associated virus. July, 1998 – July, 2001. DOH.
31. Effect of cellular rejection on brain infarction. July, 1998 – Dec. 2001. DOH.
32. Therapeutic effects of Chinese medicine on the cerebrovascular aging and stroke. July, 1999 – June, 2000. DOH.
33. Transplantation with fetal lateral ganglionic eminence for treating Huntington's disease. Aug. 1999 – July, 2002. NSC.
34. Alteration of electrophysiological circuit after various neural transplantation in basal ganglionic degenerative diseases. Aug. 1999 – July, 2002. NSC.
35. Bridge transplantation with nerves and neurotrophic factor in Parkinson's disease. Aug. 2002 – July, 2003. NSC.
36. Establish a cell therapy system by nuclear transfer for Parkinson's Disease. Aug. 2003 – July, 2004. NSC.
37. "Stroke & Cerebrovascular diseases" - E-learning project of Department of Health ROC. Oct. 2003 ~ Dec. 2007

38. Effects of neuroprotective drugs and stem cell transplantation on brain injury. Jan. 2004 – Dec. 2004.
39. Effects of stem cell implantation and GM-CSF administration on neurotransmitter profile in rat models of ischemic stroke. Jan. 2004 – Dec. 2004. NSC.
40. The investigation of the mechanism of parkin gene and AR-JP (Autosomal Recessive Juvenile Parkinsonism). Feb. 2004 – Jan. 2005. NSC
41. Effects of stem cell transplantation on brain and nerve injury. Jan. 2005 – Dec. 2005.
42. Application of human placenta mesenchymal stem cells (PMSCs) in stroke and parkinson's model. Aug. 2005 – July 2008. NSC
43. Clinical investigation of G-CSF injection combined with intracerebral transplantation of autologous peripheral blood hematopoietic stem cells (CD34<sup>+</sup>) in treatment of patients with chronic cerebral infarction. Feb. 2006- Dec. 2006. DOH
44. Clinical investigation of G-CSF injection combined with intracerebral transplantation of autologous peripheral blood hematopoietic stem cells (CD34<sup>+</sup>) in treatment of patients with chronic cerebral infarction. Jan. 2007-Dec. 2007. DOH
45. Molecular mechanism of neuroplasticity in peripheral blood stem cell (CD34+) transplantation in rat parkinson's model. Aug. 2008-July 2011. NSC
46. Phase II Clinical Trial of Treatment of Chronic Ischemic Stroke Patients with Brain Transplant of Autologous Stem Cell. July 2009-Jun. 2010. DOH
47. Pilot educational programs in translational medicine and agriculture. Apr. 2010-Mar. 2012. MOE
48. Genetically Modified Stem Cell Therapy in Amyotrophic Lateral Sclerosis. Aug. 2011-July 2013. NSC
49. Role of FOXC1 in regulating arachnoid stem cells proliferation via SDF-1 $\alpha$ /CXCR4 signaling. Oct. 2011-Sep. 2013. NSC

## **PUBLICATIONS**

### Refereed papers

1. **S-Z Lin**, C-J Shih, Y-C Wang, S-H Tsai. (1984) Intracerebral Hematoma Simulating a new growth. *Surgical Neurology* 21: 459-64. (SCI)
  2. S-H Tsai, **S-Z Lin**, C-J Shih. (1984) Effects of pre-ganglionic decentralization or post-ganglionic excision of the superior cervical ganglia on brain edema and heat stroke in rats. *Proceedings of the National Science Council Part B: Life Sciences* 8 (4): 335-340. (SCI)
- 1985-----
3. S-H Tsai, **S-Z Lin**, S-D Wang, J-C Liu, C-J Shih. (1985) Retrograde localization of the innervation of the middle cerebral artery with horseradish peroxidase in cats. *Neurosurgery* 16 (4): 463-467. (SCI)
  4. J-L Chen, **S-Z Lin**, C-J Shih, Y-C Wang, S-H Tsai, M-Y Liu. (1985) The pathogenesis of the cerebral epidermoid cyst review of literature and report of seven cases. *Chinese Medical*

Journal 38: 528-533.

5. **S-Z Lin**, C-J Shih, M-T Lin, S-H Tsai. (1985) Effects of sympathectomy on brain edema. Brain Edema (Y. Inaba et al.) 672-676.

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6. M-J Sun, Y-C Wang, M-Y Liu, **S-Z Lin**, W-H Lee. (1986) Ossifying fibroma of the skull: a report of three cases and review of the literature. Chinese Medical Journal 295-299.
7. M-J Sun, Y-C Wang, M-Y Liu, K-S Chuang, **S-Z Lin**, W-L Chenn, W-H Lee, Y-C Tu. (1986) Alpha-fetoprotein, human chorionic gonadotropin and carcinoembryonic antigen in pineal region tumors. Chinese Medical Journal 38: 272-279.

-----1988-----

8. Y-H Chiang, Y-C Wang, M-Y Liu, K-S Chuang, **S-Z Lin**, C-F Su, M-J Sun. (1988) Single burr-hole craniostomy with closed-system suction drainage in treatment of chronic subdural hematomas. J. Formosan Med. Assoc. 87: 317-322. (SCI)
9. M-J Sun, Y-C Wang, M-Y Liu, **S-Z Lin**. (1988) Parasellar meningioma. J. Surg. Assoc. R.O.C. 21: 154-164.
10. P.S.P. Ho, C-C Lee, J-Y Wang, Y-C Wang, **S-Z Lin**, F-H Chen, J-L Chen. (1988) Measurement of basilar artery diameter in dogs: CT evaluation correlated with arteriography. Neuroradiology 30: 239-244.

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11. W-S Song, **S-Z Lin**, J-L Chen, M-Y Liu, Y-C Wang. (1989) Epidural Hematoma as a complication of ventricular decompression: a report of four cases. J. Surg. Assoc. R.O.C. 22 (1): 78-82.

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12. A Tajima, M-H Yen, H Nakata, **S-Z Lin**, C Patlak, R Blasberg, J Fenstermacher. (1990) Effects of dexamethasone on blood flow and volume of perfused microvessels in traumatic brain edema. Advances in Neurology 52: 343-350. (SCI)
13. H Nakata, M-H Yen, A Tajima, **S-Z Lin**, K Pettigrew, R Blasberg, J Fenstermacher. (1990) Dexamethasone effects on the distribution of water and albumin in cold-injury cerebral edema. Advances in Neurology 52: 335-342. (SCI)
14. M-T Lin, **S-Z Lin**. (1990) Decentralization of superior cervical ganglia attenuates heat stroke formation in rabbits. Chinese Journal of Physiology 33(3):247-253.
15. **S-Z Lin**, N Sposito, S Pettersen, L Rybacki, E McKenna, K Pettigrew, J Fenstermacher. (1990) Cerebral capillary bed structure of normotensive and chronically hypertensive rats. Microvascular Research 40: 341-357. (SCI)
16. **S-Z Lin**, H Nakata, A Tajima, K Gruber, V Acuff, C Patlak, J Fenstermacher. (1990) Quantitative autoradiographic assessment of <sup>55</sup>Fe-RBC distribution in rat brain. J. Appl. Physiol. 69 (5): 1637-1643. (SCI)

17. H Nakata, A Shimizu, A Tajima, **S-Z Lin**, K Gruber, E Perillo, N Peress, J Fenstermacher. (1991) The effects of chronic serum sickness on albumin distribution and glucose utilization in rat brain. *Acta Neuropathol* 81: 312-317.
18. C-W Chou, **S-Z Lin**, M-Y Liu, C-F Su, D-S Wang, S-Y Chiou, J-L Chang, G-S Huang. (1991) Osteoblastoma of the spine a report of two cases and literature review. *J. Surg. Assoc. R.O.C.* 24 (1) 639-645.
19. C-Y Cheng, S-Y Chiou, **S-Z Lin**, C-F Su, M-Y Liu, Y-C Wang, W-H Lee. (1991) Thoracic spinal extradural angiolioma: a case report and literature review. *J. Surg. Assoc. R.O.C.* 24 (1) 646-650.
20. T-L Chiou, **S-Z Lin**, Y-C Wang, M-Y Liu, C-F Su, Y-H Chiang, D-M Yeh. (1991) Intraventricular oligodendrogliomas: their different clinical presentations and outcomes from parenchymal oligodendrogliomas. *J. Surg. Assoc. R.O.C.* 24 (3): 681-686.
21. C-Y Cheng, Y-L Chang, C-F Su, **S-Z Lin**, M-Y Liu, Y-C Wang, W-H Lee. (1991) Chronic subdural hematoma secondary to metastatic squamous cell carcinoma on the dura mater: a case report. *J. Surg. Assoc. R.O.C.* 24: 785-789.
22. J Fenstermacher, H Nakata, A Tajima, **S-Z Lin**, T Otsuka, V Acuff, L Wei, D Bereczki. (1991) Functional variations in parenchymal microvascular systems within the brain. *Magnetic Resonance In Medicine* 19: 217-220. (SCI)
23. M-T Lin, **S-Z Lin**. (1991) Cerebral ischemia is the main cause for the onset of heat stroke syndrome in rabbits. *Experientia* 48:225-227. (SCI)

24. C-Y Cheng, Y-M Fu, Y-H Chiang, C-F Su, **S-Z Lin**, M-Y Liu. (1992.03/04) Traumatic intraventricular hemorrhage clinical analysis of 28 cases. *Journal of Surgical Association, R. O. C.* 25 (2): 1087-1093.
25. A Tajima, H Nakata, **S-Z Lin**, V Acuff, J Fenstermacher. (1992) Differences and similarities in albumin and red blood cell flows through cerebral microvessels. *Am. J. Physiol.* 262: H1515-H1524. (SCI)
26. H-I Ma, **S-Z Lin**, Y-M Fu, W-H Lee, C-C Lee. (1992.05/06) Intraventricular meningioma occurring after the transsphenoidal removal of a pituitary adenoma without irradiation: a case report. *Journal of Surgical Association, R. O. C.* 25 (3): 1202-1207.
27. L Wei, **S-Z Lin**, A Tajima, H Nakata, V Acuff, C Patlak, K Pettigrew, J Fenstermacher. (1992) Cerebral glucose utilization and blood flow in adult spontaneously hypertensive rats. *Hypertension* 20: 501-510. (SCI)
28. Y-M Fu, W-H Lee, M-Y Liu, Y-H Chiang, M-J Sun, **S-Z Lin**. (1992.07/08) Primary malignant fibrous histiocytoma of the heart with brain metastasis: case report. *Journal of Surgical Association, R. O. C.* 25 (4): 1286-1292.
29. G-J Chen, **S-Z Lin**, M-Y Liu, Y-M Fu, Y-C Wang. (1992.07/08) Radiation necrosis of the brain: a report of three cases and literature review. *Journal of Surgical Association, R. O. C.*

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30. W-S Song, Y-M Fu, **S-Z Lin**, C-F Su, Y-H Chiang, M-Y Liu. (1993) Unusual calvarial tumors: case reports. *Journal of Surgical Association, R. O. C.* 26 (3): 1820-1826.
31. O.Y.P Hu, K.M Kwok, **S-Z Lin**, T-C Hsu. (1993) Simultaneous determination of tegafur and its active metabolite, 5-fluorouracil, by high-performance liquid chromatography in plasma and brain. *The Chinese Pharmaceutical Journal* 45 (6):583-589.

-----1994-----

32. T-L Chiou, Y-H Chiang, W-S Song, **S-Z Lin**. (1994) Transdural cortical stabbing facilitates the drainage of edema fluid out of cold-injured brain. *Acta Neurochir* 60: 459-461. —網路沒有
33. **S-Z Lin**, T-L Chiou, Y-H Chiang, W-S Song. (1994) Combined Treatment with nicardipine, phenobarbital, and methylprednisolone ameliorates vasogenic brain edema. *Acta Neurochir* 60: 528-530.
34. Y Wang, S-D Wang, **S-Z Lin**, J-C Liu. (1994) Restoration of dopamine overflow and clearance from the 6-hydroxydopamine lesioned rat striatum reinnervated by fetal mesencephalic grafts. *The Journal of Pharmacology and experimental Therapeutics* 270 (2): 814-821. (SCI)
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36. Dec. 5, 1995: Institute of Biomedical Engineering, Chung Yuan Christian University, Chung-li, Taiwan. "Cerebral microcirculation and its hemodynamic changes after hemodilution with artificial blood".
37. Dec. 14-15, 1995: First Symposium of Cerebral Microcirculation and Metabolism in Taiwan, Taichung, Taiwan. "Nitric oxide and cerebral ischemia."
38. Jan. 13, 1996: Grand Round, Chi-Mei Foundation Hospital, Tainan, Taiwan. "Key hole supraorbital approach for arterial cranial fossa lesions".
39. April 26, 1996: Monthly Meeting of Northern Area of Chinese Surgical Association, Taipei, Taiwan. "Neural transplantation for Parkinsonism".
40. June 5, 1996: Grand Round, Department of Neurosurgery, Chang Gung Memorial Hospital, Taiwan. "Neural transplantation for Parkinsonism".
41. July 3, 1996: Grand Round, Department of Surgery, Wei-Kung Memorial Hospital, Taiwan. "Neural transplantation for Parkinsonism".
42. July 4, 1996: Symposium of Gene therapy, Oncology society, R.O.C., Taipei, Taiwan. "Gene and cellular therapy on CNS diseases".
43. Aug. 2, 1996: Grand Round, Chung-Sun Hospital, Taichung, Taiwan. "Neural transplantation for Parkinsonism".
44. Aug. 4, 1996: Conference on Gene Therapy, Oncology Society R.O.C., Taipei, Taiwan. "Cellular and gene therapeutic approaches for human CNS diseases".
45. Aug. 31, 1996: Grand Round, Cheu-Tsung Hospital, Changfa, Taiwan. "Neural transplantation and pallidotomy for Parkinsonism".
46. Sep. 2, 1996: Summer Camp of molecular biology, Taiwan. "Human fetal mesencephalon transplantation in parkinson's disease".

47. Oct. 11, 1996: Grand Round, Department of Neurosurgery, Hospital Henri Mondor, Paris, France. "Neural transplantation and pallidotomy for Parkinson's disease".
48. Dec. 27, 1996: Grand Round, God's Help Hospital, Chiayi, Taiwan. "Supraorbital key hole surgery for anterior cranial fossa lesions".
49. Jan. 3, 1997: Combined Neuroscience Meeting of Middle Taiwan Area, Taichung, Taiwan. "Neuraltransplantation and pallidotomy for Parkinson's disease".
50. March 21, 1997: Annual Meeting of Surgical Society of Republic of China, Taipei, Taiwan. "Pathogenesis of spinal cord injury".
51. April 26, 1997: General Assembly of spinal cord injury Society, Chun-Li, Taiwan. "Surgical treatment of spinal cord injury".
52. Feb. 27, 1998: Monthly Conference of Surgical Society in Taichung, Taiwan. "Neural transplantation in Parkinson's disease".
53. March 14, 1998: Annual Meeting of Neurological Society of Republic of China, Tainan, Taiwan. "Fetal nigral transplantation in Parkinson's disease".
54. March 19, 1998: Seminar of Neuroscience Institute, Yung-Ming University, Taipei, Taiwan. "Surgical treatment for Parkinson's disease".
55. May 5, 1998: Grand Round of Psychiatric Department, Tri-Service General Hospital, Taipei, Taiwan. "Psychosurgery in psychiatric diseases".
56. May 12, 1998: Seminar of Department of Nursing, Fu-Zen University, Taipei, Taiwan. "Neural transplantation in Parkinson's disease".
57. May 22, 1998: Grand Round of Neurological Department, Taichung Veteran General Hospital, Taichung, Taiwan. "Surgical treatment for Parkinson's disease".
58. August 12, 1998: Monthly assembly of Tau-Sin-Yun Cancer Prevention Foundation, Taipei, Taiwan. "Headache and brain tumors".
59. Oct. 29, 1998: Monthly assembly of Pan-Chiu Ariculturo Copesotion, Taipei, Taiwan. "Degenerative spinal disease and sciatica".
60. March 13, 1999: Retreat Meeting, National Frontier Gene Technology Research Program, Yi-Lan, Taiwan. "Gene therapy of brain tumor by herpes simplex virus type I thymidine kinase gene delivered by adenovirus and angiostatin gene delivered by adeno-associated virus".
61. April 11, 1999: Combined Neurological and Neuroscience Symposium, Taipei, Taiwan. "Functional Neurosurgery for movement disorder".
62. April 29-May 2, 1999: 6<sup>th</sup> American Society for Neural Transplabtation and Repair Abstr., Clearwater, Florida, USA. "Vitamin D3 attenuates cortical infarction induced by middle cerebral arterial ligation in rats".
63. May 15, 1999: Monthly Assembly, Time Magajine, Taipei, Taiwan. "Advances of Neurosurgical treatment in neurological diseases".

64. June 13-17, 1999: International for Cerebral Blood Flow and Metabolism Abstr. Copenhagen, Denmark. "Osteogenic protein-1 protects against cerebral infarction induced by MCA-ligation in adult rats".
65. June 22, 1999: Symposium of Clinical Herbal Medicine, Taipei, Taiwan "animal model of cerebral ischemia and its research application".
66. June 26, 27, 1999: Cancer Prevention Program for Thousand Mothers, Taipei, Taiwan. "Treatment and prevention for an malignant brain tumor and pediatric CNS tumors".
67. July 22, 1999: Grand Round "Surgical treatment of Parkinson's disease".
68. Aug. 27-30, The 7<sup>th</sup> International Symposium on Neural Transplantation and Repair Abstr., Odense, Denmark.. "Neural transplantation reverses the inhibition of striatal neuron activity by dopamine in Huntington's rats".
69. Sep. 7, 1999: PET Symposium in Taipei. "Brain imaging of Parkinson's disease".
70. Oct.15, 1999: Halifax Brain Tumor Symposium at Linko. "Gene therapy for malignant brain tumor".
71. Oct. 22-28, 1999: Society for Neuroscience Abstr., Miami, Florida; USA. "Transplantation therapy for chronic stroke: fetal cortical cells, fetal kidney tissue and human derived cell line (hNT) neurons as graft source".
72. Oct. 22-28, 1999: Society for Neuroscience Abstr., Miami, Florida; USA. "The relationship of GDNF receptors and fetal kidney transplantation induced neuroprotection".
73. Nov. 24, 1999: Anniversary of National Defense Medical Center, Taipei. "Neural transplantation for Parkinson's disease".
74. Dec. 1, 1999: Grand Round of Neurosurgery and Neurology at Sin-Kun Hospital, Taipei. "Neuroscience research and its clinical application".
75. Dec. 30 1999: Annual Meeting of International Congress of Surgery, Taipei. "Surgical treatments for Parkinson's disease".
76. Jan. 5, 2000: Grand Round of Chan-Kuo Medical College, Taichung. "Clinical neuroscience and supraorbital key hole brain surgery".
77. Jan. 25, 2000: Health Workshop of "East, West, South, North" program, Taipei. "Degenerative neurological diseases in elders".
78. April 8-13, 2000: The American Association of Neurological Surgeons Abstr., San Francisco, CA, USA. "7<sup>TH</sup> American Society for Neural Transplantation and Repair Abstr., Clearwater, Florida, USA. "Borlongan Detection of GDNF in cultured and grafted HNT neurons".
79. May 27, 2000: Combined County Medical Meeting, Ma-Tsu Hospital. "Recent advances in the management of head trauma".

80. May 31-June 9, 2000: American Society of Gene Therapy Abstr., Denver, Colorado, USA. "Tsao Combined gene therapy of ischemia-induced brain damage using two separate adeno-associated virus vectors expressing interleukin-1 receptor antagonist and glial cell line-derived neurotrophic factor".
81. Aug. 29, 2000: Research Institute of Chinese Medicine, Taipei. "Stroke animal modeling and new drug development".
82. Sep. 23-28, 2000: Congress of Neurological Surgeons Abstr., San Antonio, Texas, USA. "Bridging transplant of fetal kidney tissues exerts reparative effects in adult Parkinsonian rats".
83. Nov. 5-9, 2000: Asian Conference of Neurological Surgeons Abstr., Nagoya, Japan. "Surgical treatment of Parkinson's disease-pallidotomy electrode implantation and transplantation".
84. Nov. 9, 2000: Asian Conference of Neurological Surgeons, Nagoya, Japan. "Surgical treatment of Parkinson's disease- pallidotomy electrode implantation and neural transplantation".
85. Nov. 23, 2000: Buddhist Tzu-Chi General Hospital, Hualien. "Recent advances in clinic and basic neurosurgical researches of the Tri-Service General Hospital".
86. Dec. 2, 2000: Symposium of CNS Tumor: An Update of Research and Clinical Practice, Tri-Service General Hospital, Taipei. "Gene therapy for malignant brain tumor".
87. Dec. 10, 2000: Annual Meeting of Taiwan Neurosurgery Society, Taichung. "Surgical treatment of Parkinson's disease- pallidotomy electrode implantation and neural transplantation".
88. Dec. 16, 2000: Monthly Conference of Chinese Times, Taipei. "Head and spine injury in sports".
89. Dec.30, 2000: Annual Meeting of International College of Surgeons, Taipei. "Osteogenic protein-1 against cerebral infarction induced by MCA ligation in adult rats".
90. March 4, 2001: Spinal Injury Patients Association, Tao Yuan. "Neural regeneration in spinal cord injury".
91. March 5, 2001: Symposium of the Frontier Program of the Medical Gene Research: Progress Report, Taipei. "Antiangiogenic gene therapy of malignant brain tumor with angiostatin gene".
92. March 9, 2001: Development Center for Biotechnology, Taipei. "Applications of biotechnology in neurological diseases".
93. March 10, 2001: Annual Meeting of Oral and Maxillofacial Surgery, Taipei. "Trigeminal neuralgia".
94. March 12, 2001: National Cheng Kung University Medical College, Taiwan. "Applications of neuroscience researches in neurological diseases".

95. April 14-15, 2001: Society of Neurology Absre., Taipei. "Adeno-TK antiangiogenesis gene therapy in malignant brain tumor".
96. June 1, 2001: Seminar of National Health Research Institutes, Taipei. "Clinical applications of basic neuroscience researches".
97. June 2, 2001: Symposium of Inauguration Congress of Chinese Speaking Society for Pediatric Neurosurgery- Multidisciplinary management of brain tumor in children, Taipei. "Gene therapy and other basic studies for brain tumors".
98. Sep. 28, 2001: Grand Round, NATIONAL Pin-Tung Hospital, Pin-Tung, "Recent advances in treating neurosurgical diseases".
99. Sep. 29, 2001: Grand Round, Pig Research Institute, Maou-Li, "Biotechnologies in neurological diseases".
100. Oct. 27, 2001: Annual Meeting of Tsin-Hua — Yang-Ming Research Program, Taipei, "Cell and gene therapies for neurological diseases".
101. Nov. 23, 2001: Anniversary of 100 year, National Defense Medical Center, Taipei. "Surgical treatment of parkinson's disease — pallidotomy, electrode implantation and neural transplantation".
102. Nov. 29, 2001: Grand Round, Department of surgery, Kao-Tai Hospital, Taipei. "Cell and gene therapies for Neurological diseases".
103. Dec. 10, 2001: Bionet Corporation "Cell therapy for Parkinson's diseases".
104. Dec. 23, 2001: Symposium of the clinical trials of gene therapy of Foundation of Medical Professionals Alliance in Taiwan (FMPAT), Taipei. "Combined Gene Therapy of Malignant Brain Tumor With The Recombinant Adenoviral Vector Carrying The Herpes Simplex Type I Thymidine Kinase Gene And Recombinant Adenoassociated Viral Vector Carrying The Angiostatin Gene".
105. March 10, 2002: Taiwan Stroke Society, Taipei. "Neuroregenerative Effects of BMP-6 and BMP-7 after Stroke in Rats".
106. March 18, 2002: Neurological Disorders-From Basic to Clinical Reseach, Taipei. "Movement disorders/PD-Clinical".
107. Aug. 8, 2002: Round Table Discussion: "Basic & Clinical Research on Cord Blood & Bone Marrow Tissue Stem Cells/Progenitors in Taiwan".
108. July 11, 2002: The 2<sup>nd</sup> International Symposium on Neurosurgical, Tokyo in Japan. "Fetal VM grafting along cogafting with striatum in Parkinson's patient".
109. Sep. 14, 2002: Molecular Imaging of Dopamine Transporter in Parkinsonsim, Taipei. "Impact of Trodate-1 SPECT on The Treatment of Parkinson's Disease".
110. Sep.19, 2002: International Symposium on Gene Therapy, Taipei. "Neural transplantation in Parkinson's disease"



111. Sep. 21, 2002: 2002 Annual Convention of Tzu Chi International Medical Association, Hualien. "STATE-OF-THE-ART TECHNOLOGY IN NEUROSURGERY".
112. Oct. 20, 2002: Summer School 2002 of The International Society of CBF and M, and Joint International Symposium on "Molecular Mechanism and Epochal Therapeutics for Ischemic Stroke and Dementia", Setouchi Kojima Hotel of Okayama, Japan. "Cell and molecular therapies for stroke".
113. Nov. 30, 2002: 4<sup>th</sup> Asian Conference of Neurological Surgeons, Hong-Kong. "Lesioning vs DBS cells transplantation".
114. Dec. 1, 2002: Round Table Discussion for Newly Board-Certified Neurosurgeons, Taiwan. "How to write a peer-reviewed article".
115. Dec. 9, 2002: Division of molecular and Genomic Medicine, Taipei. "Applicationm of genomic in neurological disease".
116. Dec. 13, 2002: The 2<sup>nd</sup> International Symposium on DNA Vaccine and Gene Therapy Technology, Taipei. "Cell and Gene therapy in Neurodegenerative Diseases".
117. Jan. 4, 2003: Combined Symposium of Neurosurgery, Taitun. "Cell and Gene therapy in neurodrenerative disease".
118. Jan. 13, 2003: IBMS SEMINAR, Taipei. "Cell and Gene therapy in Stroke".
119. Feb. 24, 2003: The 3<sup>rd</sup> International Mt. BANDADI Symposium for Neuroscience and The 4<sup>th</sup> Pan-Pacific Neurosurgery Congress, Hawaii. "Combined Suicide Gene and Antiangiogenesis Gene Therapy in Malignant Brain Tumor".
120. Sep. 11, 2003: 2003 Annual Convention of Tzu Chi International Medical Association, Hualien. "Recent advances in health care of Tu Chi Hospital".
121. Sep.13-15, 2003: Mainland China. "1. The Responsibility of Medical Center in Post genome era. 2. The global responsibility of Medicine Mission of Tzu Chi Foundation".
122. Sep. 20, 2003: Taipei. "Recent Advaces in Neurosurgery".
123. Sep. 27, 2003: The 2<sup>nd</sup> Symposium for Recent Progress of Cancer in Eatern Taiwan, Hualien. "Gene therapy for brain tumor".
124. Oct. 3, 2003: Kaohsiung. "The Responsibility of Medical Center in Post genome era."
125. Oct. 24, 2003: Taipei. "Application of biotechnology in neurodegenerative diseases".
126. Oct. 31, 2003: International Conference on Regenerative Medicine of the Nervous System, Taipei. "Cell and Gene therapy in Neurological diseases".
127. Dec. 1, 2003: 2003 Symposium of Gene Therapy – Retrospective, Prospective & Regulatory Science, Taipei. "cGMP Lab in Taiwan".
128. Dec. 1, 2003: 2003 Symposium of Neuroregeneration, annual meeting of Taiwan Neurosurgical Society, Taipei. "Cell Regeneration and therapy in Stroke".

129. March 29, 2004: Taipei. "Brain Transplantation & Gene Therapy".
130. April 17, 2004: Academic Symposium of 13<sup>th</sup> Anniversary of TC Wun Foundation, Taipei. "PD: From Clinic Trails to Genetic Hunting".
131. May 1, 2004: The 9<sup>th</sup> Taiwan joint Cancer Conference , Taipei. "Anticancer Drug Development: an example of Isochaihulactone: A Novel non-taxane Microtubule-stabilizing Lignan from Bupleurum as a Potential Anticancer Agent "
132. July 9, 2004: Molecular Imaging Seminar in Taipei. "Cell Therapy in Neurological Diseases".
133. Nov. 3, 2004: Taipei. "Functional Neurosurgery".
134. Nov. 28, 2004: The 2004 Annual Meeting of Taiwan Neurosurgical Society and Scientific Symposium & The 5<sup>th</sup> Congress of Asian Society of Stereotactic Functional and Computer Assisted Neurosurgery in Kaohsiung. "Relationship of stimulation site location within the subthalamic nucleus region to clinical effects on parkinsonian symptoms".
135. Dec. 11, 2004: The Brain 2004 Symposium in The Chinese University of Hong Kong. "Human Stem Cells Therapy on Stroke Animala and Patients: Cell Survival and Monitoring Using MRI & Functional Outcome Correlation".
136. Dec. 23, 2004: The TBIO's annual convention in Taipei. "Stem cell and regenerative medicine".
137. June. 19-24 2005: World Federation of Neurosurgical Societies 13<sup>th</sup> World Congress of Neurological Surgery 19-24 June 2005-Marrakesh-Morocco. The MTS 7 : Neurotransplantation : Today and future limits.
138. July. 23, 2005: 惡性神經瘤(Malignant Glioma)治療新趨勢研討會.in Taichung,"Future trend for glioma management "
139. Sep. 1-3, 2005: 1st Congress of International Society of Reconstructive Neurosurgery and 4th Scientific Meeting of the WFNS Neurorehabilitation Committee ,in Korea, " Stem cell therapy in stroke: strategies in basic study and clinical application"
140. Dec. 31, 2005: International College of Surgeons, Taiwan section, at Chung-Ho Memorial Hospital Kaohsiung University Hospital in Kauhsiong, "Overexpression of PrPc by adenovirus-mediated gene targeting reduces ischemic injury in a stroke rat model"
141. February 12-16 2006:4<sup>th</sup> WORLD Congress for NeuroRehabilitation,Hong Kong , "Stem cells therapy for stroke".
142. April3-4,2006:Taiwan-Swiss Biomedical Symposium (Taipei), "New Drug Development, Cell and Gene Therapy for Neurological Diseases-Tzu-Chi Hospital Experiences".
143. Jul.6-9 2006 Word Society for Stereotactic and Functional Neurosurgery meeting, Shanghai China,"Stem cells therapy for Neurological diseases".

144. September 17-18 2006, ELSI Symposium Reexamining the ELSI Implication of Biobanking A Cross Culture Perception, "The Limitations of Industrial Application".
145. Oct. 7-12 2006, Congress of Neurological Surgeons 56<sup>th</sup> Annual Meeting, Chicago, Illinois; "Therapeutic strategies of stem cells for stroke".
146. January 13 2007, Summit of Medical Devices and Biotechnology Development in Taiwan. Hualien, Taiwan. "Biotechnology of stem cell sorting and stem cell therapy in old stroke".
147. January 13 2007: in Taipei, "Stem cell transplantation".
148. May 22-24, 2007: the 6<sup>th</sup> Congress of Asian Society for Stereotactic, Functional and Computer Assisted Neurosurgery, at Mt. Fuji Resort in Japan, "Stem cells therapy for acute and chronic stroke patients".
149. Sep. 13-16, 2007: the 2nd Congress of International Society of Reconstructive Neurosurgery & 5th Scientific Meeting of the WFNS Neurorehabilitation Committee, Taipei Convention Center in Taipei, ""
150. Sep. 15-20, 2007: 2007 Congress of Neurological Surgeon Annual Meeting, at San Diego Convention Center in California, "CD34<sup>+</sup> stem cell therapy in chronic stroke patients"
151. Oct. 12-14, 2007: The 3<sup>rd</sup> Academic Symposium on Acupuncture, at Liaoning, China, "Nanobead sorted CD34<sup>+</sup> stem cells therapy in stroke patients"
152. Nov. 13, 2007: Monthly Meeting of Middle Area of Taiwan Surgical Association, at Lee's General Hospital in Taichung, "神經疾病的晶片及幹細胞療法"
153. Nov. 16, 2007: International College of Surgeons, Taiwan section, at Chung-Ho Memorial Hospital Kaohsiung University Hospital in Kaohsiung, "Granulocyte colony-stimulated factor activated CD34<sup>+</sup> stem cells therapy in chronic stroke patients"
154. Nov. 17, 2007: The 1st International Stroke Symposium in CMUH, at China Medical University Hospital in Taichung, "Granulocyte colony-stimulated factor activated CD34<sup>+</sup> stem cells therapy in chronic stroke patients"
155. Nov. 25, 2007: Taiwan Neurosurgical Society Annual Meeting, at Taipei Convention Center in Taipei, "Cell therapy in neurological diseases"
156. Dec. 9-11, 2007: Neurological Assessment Workshop, at Fuzhou in China, "Granulocyte colony-stimulated factor activated CD34<sup>+</sup> stem cells therapy in chronic stroke patients"
157. Jan. 6, 2008. Annual Meeting of Chinese-Western Neurology Society, National Taiwan Normal University, Taipei Taiwan. "Granulocyte colony stimulated factor activated CD34 stem cells therapy in chronic stroke patients"
158. Mar. 21-23, 2008: The 3<sup>rd</sup> Academic Conference of The International Chinese Neurosurgical Science, at Dongguan in China, "Granulocyte colony stimulated factor activated CD34<sup>+</sup> stem cells therapy in chronic stroke patients"

159. Mar. 29-30, 2008: 2008 Annual Meeting of Taiwan Surgical Association, at Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan, “Stem Cells therapy in chronic stroke patients”
160. Apr. 18, 2008: 2008 Monte Jade BioInvestor Forum, Taipei, Taiwan, “CNS Application”
161. Apr.26-27, 2008: 2008 Annual Meeting of Taiwan Neurological Society, Tainan, Taiwan, “Magnetic nanoparticles sorted CD34<sup>+</sup> stem cells therapy in stroke patients”
162. May 1-3, 2008: 15<sup>th</sup> Annual Meeting of the American Society for Neural Therapy and Repair, at Clearwater Beach, Florida, U.S.A., “CD34 stem cells therapy in chronic stroke patients-phase I trial”
163. May 11, 2008: The 1st International Stroke Symposium – The Advances in Treatment , at Nanjin BenQ Hospital, Nanjin, China. “Stem Cell Therapy in Neurological Diseases”
164. May 18, 2008: 2008 International Hua-Xia Medicine Summit Forum on New Technology and New Administration, at China Medical University, Taichung , Taiwan. “Stem Cell Therapy in Stroke”
165. May 24-25, 2008: Taiwan Neurospinal Society Neurospinal 4th Annual Meeting, Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan. (Moderator)
166. May 31-Jun 2, 2008: 1st Pan Pacific Symposium on Stem Cells Research 2008, at China Medical University Hospital, Taichung, Taiwan. “Review on Current Clinical Application of Stem Cell”
167. Jun 21, 2008:Annual Meeting of Taichung VGH Researches, at Taichung Veterans General Hospital, Taichung, Taiwan. “How to carry out translational neuroscience successfully?”
168. July 21, 2008: Dialogues between Doctors and Engineers: Great Jump in Neuroscience, at Biomimetic System Research Center, National Chiao Tung University, Hsinchu, Taiwan. “How to carry out translational neuroscience successfully?”
169. July 26-27, 2008: 1st Conference on Asia-Pacific Neurotrauma Society (In Conjunction with 3rd Annual Meeting of Taiwan Neurotrauma Society), Taipei Medical University, Taipei, Taiwan. “Neuroprotection in Experimental Traumatic Brain Injury”
170. Sep.10-13, 2008: 10th International Conference on Neural Transplantation & Repair, Freiburg, Germany. “Stem Cells Therapy in Stroke Patients Clinical Trials”
171. Oct. 1-3, 2008. 3rd Annual Taipei International Symposium on Human Cell and Tissue-based Products. National Taiwan University Hospital International Convention Center, Taipei, Taiwan. “cGMP Lab: One of the Key for Translational Cell Therapy in Stroke Patients (Phase I Completion)”
172. Oct 3, 2008. International College of Surgeons (Taiwan section) academic meeting. Cathay General Hospital International Conference Hall, Kaohsiung, Taiwan. “Molecular mechanisms of the corticospinal tract regeneration after stem cell implantation”

173. Oct. 24, 2008. International Scientific Instrument Technology Workshop. Instrument Technology Research Center, National Applied Research Laboratories, Hsinchu, Taiwan. “Applied instrumental technology in neurosurgery stem cell implantation in stroke patients”
174. Oct. 30-Nov. 1, 2008. The 21<sup>st</sup> Chinese SCI Academic Annual Meeting & The 3<sup>rd</sup> International SCI Treatments & Trials Symposium. Schobrunn Hotel, Beijing, China. “Molecular mechanisms of the corticospinal tract regenerated in stroke patients”
175. Nov. 14, 2008. The Conference of the Application of Stem Cell Technology in the Healthy-Medicine Industry, National Ilan University, Ilan, Taiwan. “Industry Development of Stem Cell Technology for Stroke Therapy”
176. Nov. 15, 2008. Clinical Application of Stem Cell, Taiwan HLA Society, National Taiwan University 104 Conference room, Taipei, Taiwan, “CD34 Stem Cell Therapy in Chronic Stroke Patients”
177. Nov. 17, 2008. Special Lecture, College of Electrical Engineering and Computer Science, National Taiwan University, Taipei, Taiwan. “Applied instrumental technology in neurosurgery stem cell implantation in stroke patients”
178. Jan. 8-10, 2009. Asian Australasian Society of Stereotactic and Functional Neurosurgery (AASSFN) / The Chinese Society of Stereotactic and Functional Neurosurgery (CSSFN) / Brain 2009, Prince of Wales Hospital, Shatin, Hong Kong. “How stem cells make the corticospinal tract regenerated in stroke patients”
179. Jan. 11, 2009. Annual Meeting of Chinese-Western Neurology Society, National Taiwan Normal University, Taipei Taiwan. “How stem cells make corticospinal tract regenerated in stroke patients”
180. Feb. 26-28, 2009. The First Cross-Strait Forum on Neurosurgery, Nanyang King’s Gate Hotel, Guangzhou, Guang Dong, China. “Regeneration of the corticospinal tract in chronic stroke patients by stem cell therapy”
181. Mar. 15, 2009. Forum of Global Anti-aging and Bio-health Care, Taipei Medical University, Taipei, Taiwan. “How stem cells make corticospinal tract regenerated in stroke patients”
182. Mar.19-20, 2009. 1st International Conference on Neuroprosthetic Devices, National Chiao Tung University, HsinChu, Taiwan. “Deep brain stimulation for treatment of Parkinsons disease”
183. Mar.26, 2009. 2009 IMEC-NSoC-TWEMBA Workshop on Bio-medical Electronics, National Chiao Tung University, HsinChu, Taiwan. “Stem Cell Therapy in Stroke”
184. Apr. 8, 2009 Special Lecture, Linshin hospital, Taichung, Taiwan. “Dialogues Between Doctors and Patients: Treating Patients as a Whole”
185. Apr. 10-13, 2009 2<sup>nd</sup> Pan Pacific Symposium on Stem Cell Research 2009
186. Apr. 22, 2009: 2009 Monte Jade BioInvestor Forum, National Taiwan University Hospital International Convention Center, Taipei, Taiwan., “Stem Cell Therapy”

187. Jun. 22-23, 2009: Conference on Personalized Medicine & Health in Greater China, National Taiwan University Hospital International Convention Center, Taipei, Taiwan., “Stem cells therapy in stroke”
188. Jul. 25, 2009: The Development and Trend of Anti-Aging & Regenerative Medicine, Taipei World Trade Center, Taipei Taiwan, “Clinical Experience of SCT in Neurosurgery”
189. Jul 25-26, 2009: Cell Therapy Training Course, Evergreen International Convention Center, Taipei, Taiwan., “Stem cells therapy in stroke”
190. Aug. 29, 2009: Green Technology Symposium, Renaissance Dallas–Richardson Hotel, Texas, USA, “Bio-electronic application in stem cell implantation in stroke patients”
191. Aug. 30-Sep. 4, 2009: XIV World Congress of Neurological Surgery, Boston , Massachusetts , USA, “How stem cells make corticospinal tract regenerated in stroke patients”
192. Sep. 5, 2009: 2009 Beijing International Neurological Forum, Beijing China, “CD34 stem cell implantation enables the regeneration of the corticospinal tract in the chronic stroke patients”
193. Sep.19, 2009: Department of Neurosurgery 30 Anniversary, Chang-Gung Memorial Hospital, Taoyuan, Taiwan, “Differences of Neurosurgical Training between Urban and Country Side in Taiwan”
194. Oct. 18, 2009: 2009 Taiwan Association of Family Medicine Symposium, Taichung, Taiwan, “Surgical treatment of Parkinson’s disease: present and future”
195. Oct. 22, 2009: Instrument Technology for Application and Development in NanoBiology and Biosensors, International Technology Research Center, Hsinchu, Taiwan, “Instrument Technology in Stem Cell”
196. Oct. 30-Nov. 1, 2009: The International Symposium of Pediatric Neuro-oncology for the 50th Anniversary of Taipei Veterans General Hospital and the Annual Scientific Meeting of Chinese Medical Association, Taipei Veterans General Hospital, Taipei, Taiwan, “New Drug Development for GBM and Stem Cells”
197. Nov. 1, 2009: Symposium for Novel Accomplishment in Medical Ethics and Modern Surgery, International College of Surgeon, Taiwan Section, Taipei, Taiwan, “Stem cell therapy in neurological diseases”
198. Jan. 29, 2009. Annual Meeting of Chinese-Western Neurology Society, National Taiwan Normal University, Taipei Taiwan. “Current application of stem cell therapy in various diseases”
199. Apr. 16-19, 2010. 3rd Pan Pacific Symposium on Stem Cells Research 2010, Ever Green Hotel, Taichung, Taiwan. “CD34 stem cell implantation enables the regeneration of the corticospinal tract in the chronic stroke”
200. Apr. 22-25, 2010. The International Conference of Stem Cells and Regenerative Medicine for Neurodegenerative Diseases, Buddhist Tzu-chi General Hospital, Hualien,

- Taiwan. “CD34 stem cell implantation enables the regeneration of the corticospinal tract in the chronic stroke patients”
201. Apr. 23-25, 2010. 3rd International Association of Neurorestoratology (IANR), Beijing China. “CD34 stem cell implantation enables the regeneration of the corticospinal tract in the chronic stroke patients”
  202. Apr. 29-May 1, 2010. 17th Annual Conference of the American Society for Neural Therapy & Repair, California, USA. “Intracerebral Implantation of Autologous Peripheral Blood Stem Cells (CD34) in Old Ischemic Stroke Patients”
  203. May 29-30, 2010. Taiwna Neuromodulation Forum, Buddhist Tzu-chi General Hospital, Hualien, Taiwan. “Neuromodulation-Now and Then”
  204. June 3-5, 2010. The 8th Annual International Umbilical Cord Blood Transplantation Symposium, San Francisco, USA. “A clinical trial of the treatment of stroke with cord blood stem cells”
  205. June 5-7, 2010. International Conference on Biomedical Research & Management 2010 Concurrently run with the 8th Worldwide Reunion of NDMC Alumni, Hong Kong. “A clinical trial of the treatment of stroke with cord blood stem cells”
  206. June 20, 2010. 1<sup>st</sup> Joint Congress of Cosmetic & Aesthetic Surgery and Anti-aging & Trichological Medicine, Taipei, Taiwan. “Stem Cell Therapies in Neurological Diseases”
  207. Aug 15, 2010. Annual Meeting of Chinese and Western Medical Union Society of Immunology, Kaohsiung, Taiwan. “Umbilical cord blood stem cell transplantation in stroke: HLA typing and immunorejection”
  208. Sep. 13-15, 2010. Stem Cells USA & Regenerative Medicine Congress, Philadelphia, Pennsylvania, USA. “Case study Going global-China Medical University and NeuralStem’s research agreement”
  209. Sep. 17-18, 2010. 7th Asia Pacific Symposium on Neural Regeneration, Yonsei University, Seoul, Korea. “CD34 stem cell intracranial transplantation in treating stable stroke patients a randomized, controlled phase II trial”
  210. Sep. 18-19, 2010. 4th Asian Gamma Knife Academy Meeting, Taipei, Taiwan. “CD34 stem cell intracranial transplantation in treating stable stroke patients: a randomized, controlled phase II trial”
  211. Sep. 24-25, 2010. Regenerative Medicine from Stem Cells to Disease Models, Performance Hall, Convention Center, National Yang-Ming University, Taipei Taiwan. “CD34 stem cell intracranial transplantation in treating stable stroke patients: a randomized, controlled phase II trial”
  212. Sep. 25-26, 2010. The Second Cross-Strait Forum on Neurosurgery, Guangzhou, Guang Dong, China. “CD34 stem cell intracranial transplantation in treating stable stroke patients: a randomized, controlled phase II trial”
  213. Oct. 13-14, 2010. 2010 Taipei International Symposium on Human Cell and Tissue-based Products and Tissue Banks, National Taiwan University Hospital International

- Convention Center, Taipei, Taiwan. “CD34 stem cell intracranial transplantation in treating stable stroke patients: a randomized, controlled phase II trial”
214. Oct. 18-20, 2010. The 1st World Forum on Cerebral Blood Flow Metabolism & Function, Kyoto, Japan. “Stem cell therapy in chronic stroke patients-Phase II trial”
  215. Dec. 5, 2010. Annual Meeting of Chinese-Western Neurology Society, National Taiwan Normal University, Taipei, Taiwan. “Stem cells explored as ALS therapy”
  216. Dec. 18-19, 2010. Taipei VGH and NYMU Brain Tumor Symposium 2010, Science and Technology Building, Taipei Veterans General Hospital, Taipei, Taiwan. “New drug development for GBM”
  217. Dec. 19, 2010. 2<sup>nd</sup> Symposium of Cosmetic & Aesthetic Medicine across the Strait, Taipei, Taiwan. “Stem Cell Therapy in Neurological Diseases”
  218. Jan.8, 2011. The 1st Taiwan Forum in Neuromodulation: Contemporary Management of Advanced Parkinson’s disease, Nantou, Taiwan. “Future therapeutic modality of Parkinson’s Disease”
  219. Feb. 24-26, 2011. Series of Lectures on Soft Matter Physics by Professor Masao Doi and 2011 NCTS February Workshop on Critical Phenomena and Complex Systems, Taipei, Taiwan. “Genetically modified stem cell therapy could cure the protein aggregated neurodegenerative disease”
  220. Mar. 11-14, 2011. 腦出血及相關疾病高峰論壇, Guangzhou, China. “Stem cell therapy in chronic stroke patients-Phase II trial”
  221. Mar. 26-27, 2011. The first International Conference of Bio-energy & Bio-energy medicine、Medical Tourism、Health Forum、Exhibition 2011, Taipei, Taiwan. “Stem Cell Therapy in Neurological Diseases”
  222. Apr. 19, 2011. ChinaSCINet Investigator Meeting and Workshop on Cell Based Therapies, Hong Kong. “Cell Therapy in Stable Stroke and Others”
  223. May 24-28, 2011. XXVth International Symposium on Cerebral Blood Flow, Metabolism, & Function, and Xth International Conference on Quantification of Brain Function with PET, Barcelona, Spain. “Stem cell therapy in stable stroke patients”
  224. Jun18-19, 2011. The First Forum of Taiwan Cross-Strait Medical Interchange Association, Taipei, Taiwan. “Stem Cell Therapy in Neurological Diseases”
  225. July 16-20, 2011. 2011 The first International Conference of Bio-energy medicine, Medical Tourism, Health Forum, Exhibition, Taipei, Taiwan. “Stem Cell Therapy in Neurological Diseases”
  226. July 28-29, 2011. ITRI Technical Advisory Committee BIO Meeting, Industrial Technology Research Institute, Hsinchu, Taiwan. “Global trends in the development of Cell Therapy”
  227. Aug. 20, 2011. Regenerative Medicine & Industry Forum, National Cheng Kung University, Tainan. “Stem cell therapy in neurological disease”



228. Sep. 18, 2011. The Annual Scientific Meeting of Taiwan Society of Lipids & Atherosclerosis 2011 and The 11th Taipei International Vascular Biology Symposium. Cheng Hsin General Hospital, Taipei. “Novel approach by nanobiomaterials in vascular tissue engineering”
229. Sep.23, 2011. 2011 Tzu Chi University Bio-Medicine, Technology and Humanity Symposium, Hualien. “Combined therapy with stem cells and nanocomposites in vascular injury”
230. Sep. 30, 2011. 2nd Annual Stem Cell Research Symposium, AT&T Executive Education And Conference Center, The University of Texas at Austin, U.S.A.. “CD34 Stem Cell Intracranial Transplantation in Treating Stable Stroke Patients A Randomized, Controlled Phase II Trial”
231. Oct. 22, 2011. 2011 Annual Meeting of Taiwan Society for Stereotactic Functional Neurosurgery and Radiosurgery, Taipei Veterans General Hospital, Taipei. “Gene-cell Therapy in Neurological Diseases”
232. Nov.19, 2011. 6th International Symposium of Genomics Research (ISGR), Changhua Christian Hospital, Changhua “Gene-stem cell therapy for congenital disease”
233. Nov. 27, 2011. The latest Development and Clinical Application Symposium on Mesenchymal Stem Cell, Kaohsiung Medical University Chung-Ho Memorial Hospital, Kaohsiung , Taiwan. “Gene-stem cell therapy for congenital disease”
234. Dec. 21, 2011. Special Lecture, Chiao Tung University, HsinChu, Taiwan. “Bio technology in cell transplantation”
235. Feb. 16-17, 2012. National Academy of Inventors Conference, University of South Florida, California, U.S.A. “Strategies translating basic to clinic in cell therapy of stroke at CMU Chapter”
236. Apr. 13-15, 2012. The 8th Asia Pacific Symposium on Neural Regeneration (APSNR) in conjunction with The 5th Pan Pacific Symposium on Stem Cells and Cancer Researches (PPSSC) The 1st Cross-Strait Biotechnology Forum, NTUH International Convention Center, Taipei, Taiwan. “Gene-Stem Cell Therapy in Amyotrophic Lateral Sclerosis”
237. Apr. 20-22, 2012. The 9th Meeting of Asian Society for Neuro-Oncology (ASNO), Taipei International Convention Center, Taipei, Taiwan. “New drug development in malignant glioma”
238. Jun 16, 2012. 2012 The Biotechnology and Pharmaceutical Industries Regulation Training Program. China Medical University Hospital, Taichung, Taiwan. “The Experience of Stem Cell Therapy and Clinical Application”
239. Aug. 13, 2012. Cancer Biology and Drug Discovery Ph.D. Program Retreat, Academia Sinica, Taipei, Taiwan. “Development of New Drug for Brain tumor”
240. Aug. 24-25, 2012. 2012 NHRI Conference on Cell Therapy, National Health Research Institutes, Zhunan, Taiwan. “Strategies used for translating basic to clinic in cell therapy of stroke”

241. Oct. 6-10, 2012. The Congress of Neurological Surgeons, Chicago, Illinois, USA. “Anatomical and functional improvements in corticospinal tract regeneration in chronic stroke patients after an intracranial implantation of autologous CD34 stem cells — phase II trial”
242. Feb 21-22, 2013. National Academy of Inventors 2nd Annual Conference, Embassy Suites, Florida, USA. “Meet the Unmet Medical Needs – Strategies Used by Physician Invention of China Medical University, Taiwan”
243. Mar. 21-23, 2013. The 38th Annual Meeting of the Japan Stroke Society, Grand Prince Hotel New Takanawa, Tokyo, Japan. “Corticospinal tract regeneration in chronic stroke patients after an intracranial implantation of autologous CD34 stem cells — phase II trial”
244. Mar. 31, 2013. The 2013 Taiwan Neurooncology Symposium, Cheng Hsin Hospital , Taipei, Taiwan. “New drug development for GBM”
245. June 5-6, 2013. 2013 International Conference on Applied Biomaterials, Chung Yuan Christian University, Taoyuan, Taiwan. “Application of Biomaterials in Neurological Diseases”
246. Sep. 9-14, 2013. 20th PICS Expert Circle On Human Blood, Tissues And Cells, Regent Taipei, Taipei, Taiwan. “Corticospinal tract regeneration in chronic stroke patients after an intracranial implantation of autologous CD34 stem cells — phase II trial”