CURRICULUM VITAE

Sheng-Hsien Chen, M.D.Ph.D. (陳勝咸)

姓名：陳勝咸 醫師

出生日期：1964-02-17

單位：婦產部

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學歷（學校名稱、主修系科、學位、起訖年月）

私立中山醫學院醫學系畢業 (1982-09 to 1989-06)

國立成功大學醫學院臨床醫學研究所醫學博士(2003/9 to 2007/12)

經歷（服務機構、部門、職稱、起訖年月）

奇美醫學中心婦產部駐院醫師（1989-07 to 1992-06)

奇美醫學中心婦產部駐院總醫師及研究員（1992-07 to 1994-06)

奇美醫學中心婦產部主治醫師（1994-07 to 2007/10)

奇美醫學中心婦產部產科主任（2007-11 to 2009/08)

奇美醫學中心婦產部主任 (2009-09.to now)

奇美醫學中心醫研部幹細胞研究室主持人 (2006-02 to now)

南台科技大學生物科技研究所專任副教授 (2010-02 to now)

台北醫學大學醫學系兼任副教授 (2010-02 to now)

國防醫學大學醫學院醫學系臨床教授 (2008-08 to now)

中華民國周產期醫學會常務理事 (2010 to now)

專長:產前診斷及諮詢, 高危險妊娠處理及優生保健

主持之研究計畫

1. The relationship of IGF2 single-nucleotide polymorphism and birth body weight. 2003 June（奇美醫學中心）
2. Protective Effects of Stem Cells Purified from Human Umbilical Cord Blood onCirculatory Shock and Cerebral Ischemia In Experimental Heatstroke. 2004 Jan（奇美醫學中心; 編號:CMFHR9309）
3. Administration of CD34+ Progenitor Cells Derived from Human Umbilical Cord Blood Enhences Premarin-Mediated Neuroprotection in Castrated Female Rats after Experimental Heatstroke. 2005 Jan（奇美醫學中心; 編號:CMFHR9416）
4. 動情激素取代療法改善在大鼠熱中風實驗中產生的氧化性壓力之機制探討 2006 Jan（奇美醫學中心; 編號:CMFHR9501）
5. 以源自人類臍帶血之CD34+細胞移植於液體撞擊後之腦損傷大鼠模式所產生腦缺血, 梗塞和細胞凋亡的療效評估 2006 Jan（奇美醫學中心; 編號:CMFHR9605）
6. 以源自人類臍帶血之造血幹細胞合併雌激素治療實驗性熱中風之評估（國科會計劃; 編號:95-2314-B-384-018）
7. 以源自人類臍帶血造血幹細胞移植及雌激素注射於液體撞擊後之腦損傷公鼠模式所產生腦缺血, 梗塞, 細胞凋亡之探討（國科會計劃 (2008-2010);編號:97-2321-B-384-001-MY2）
8. 探討源自人類臍帶血CD34+細胞移植及雌激素注射於液體撞擊後之腦損傷公鼠模式所產生腦缺血, 梗塞, 細胞凋亡(奇美生寶產學計劃2008-01 to 2010-12)
9. 顆粒性白血球群落刺激因子及雌激素施打於熱中風小鼠所產生血管內皮破壞, 大腦損傷及細胞凋亡之機制探討（奇美醫學中心; 編號: CMFHR9804）

10. 雌激素施打於脊椎神經損傷之動物模式產生血管內皮破壞, 脊椎梗塞及細胞凋亡之保護機制探討（奇美醫學中心; 編號: CMFHR9810）
11. 探討顆粒性白血球群落刺激因子治療脊椎神經損傷之大鼠的角色（奇美醫學中心）
12. 探討催產激素施打於雙側卵巢切除的母鼠後其對熱中風所誘發的大腦損傷及血液循環失調的保護機制。編號: 98-2629-B-384-001-國科會計劃 (2009-08-01 to 2010-07-31)
13. 探討人類臍帶血細胞在懷孕母鼠暴露於熱壓力後產生早產及新生胎鼠腦病變的療效。編號: 99-2314-B-384-005-MY3國科會計劃(2010.08.01 - 2013.07.31)
14. 人類臍帶間質幹細胞與人類臍帶血造血幹細胞在實驗性熱中風的療效比較。編號：CMFHR10046 計畫執行期間：2011.07. - 2012.06.30
15. 探討醫學營養治療於妊娠糖尿病母親後對胎兒臍帶血中幹細胞之數目及活性的影響。編號：CMNCKU10003 計畫執行期間：2011.06.01 - 2012.05.31
16. 探討重組活化第七凝血因子在實驗性熱中風後造成血管內皮損傷之修復角色。編號：CMNCKU9912 計畫執行期間：2010.06.01 - 2011.05.31

2004-2011 年受邀演講或主持分項會議或參與國內和國外之國際學術會議

1. 2004 Rodes, Greece The 1st Integrated Meeting on Thermal Physiology
PROTECTIVE EFFECTS OF PURIFIED HUMAN UMBILICAL CORD BLOOD ON CIRVULATORY SHOCK AND CEREBRAL ISCHEMIA (Oral presentation)
2. 2005 廣西 桂林, 中華醫學會第十四次高壓氧醫學學術會議
高壓氧氣合併人類臍帶血幹細胞對治療急性熱中風之影響 (Invited speaker)
3. 2005 香港, 第五屆海峽兩岸心血管科學研討會
DELIVERY OF HUMAN UMBILICAL CORD BLOOD CELLS CAUSES ATTENUATION OF CIRCULATORY SHOCK AND CEREBRAL IS (Poster

presentation)

4. 2006 Phoenix, Arizona Second International Meeting on Phsiology and Pharmacology on Thermoregulation RESUSCITATION FROM EXPERIMENTAL HEATSTROKE BY HUMAN UMBILICAL CORD BLOOD CELLS OR ESTROGEN (Young Scientist Award)

5. 2006 Toronto, Canada 4th ISSCR (International Society of Stem Cell Reseach) Annual Meeting: ADMINISTRATION OF HUMAN HEMATOPOIETIC STEM CELLS ATTENUATE COAGULOPATHY DURING EXPERIMENTAL HEATSTRO (Poster presentation)

6. 2005 Taipei, 9th International Conference on Neural Transplantation INFUSION OF HUMAN UMBILICAL CORD BLOOD CELLS PROTECT AGAINST CEREBRAL ISCHEMIA AND DAMAGE DURING Heatstroke RAT (Poster presentation)

7. 2005 Taipei, 2005 神經功能塑性變化研討會 ESTROGEN-MEDIATED NEUROPROTECTION AFTER HEAT STROKE IN THE RAT (Poster presentation)

8. 2005 Taipei, 2005 神經功能塑性變化研討會 Resuscitation From Experimental Heatstroke By Transplantation Of Human Umbilical Cord Blood Cells (Poster presentation)

9. 2005 Taipei, 2005 神經功能塑性變化研討會 INFUSION OF HUMAN UMBILICAL CORD BLOOD CELLS PROTECT AGAINST CEREBRAL ISCHEMIA AND DAMAGE DURING HEATSTROKE(Poster presentation)

10. 2006, Taipei 台灣幹細胞學會年會 CD34+ CELLS CAUSE ATTENUATION OF CEREBROVASCULAR

DYSFUNCTION, HYPERCOAGULABLE STATE, AND ACTIVATED INFLAMMATION (Poster presentation)

11. 2006 Taipei, 台灣幹細胞學會年會

HUMAN UMBILICAL CORD BLOOD DERIVED CD34+ CELLS ARE BENEFICIAL IN REVERSING SPINAL CORD INFARCTION (Poster presentation)

12. 2006 Twelfth, Congress of the European Shock Society Ulm CD34+ CELLS THERAY CAUSES ATTENUATION OF SYSTEMIC INFLAMMATION, ACTIVATED COAGULATION, AND TISSUE ISCHEMIA (Poster presentation)

13. 2006, Taipei ISSR 國際中風研討會

HUMAN UMBILICAL CORD BLOOD DERIVED CD34+ CELLS CAUSE ATTENUATION OF MULTIORGAN DYSFUNCTION DURING EXPERIMENTAL HEATSTROKE (Poster presentation)

14. 2006, Taipei ISSR 國際中風研討會

HUMAN UMBILICAL CORD BLOOD DERIVED CD34+ CELLS ARE BENEFICIAL IN REVERSING SPINAL CORD INFARCTION (Poster presentation)

15. 2006, Taipei ISSR 國際中風研討會

ESTROGEN RESCUES MICE FROM HEAT STROKE- INDUCED DEATH (Poster presentation)

16. 2007 Cairns, Australia 5th ISSCR(International Society of Stem Cell Reseach) Annual Meeting: HUMAN UMBILICAL CORD BLOOD DERIVED CD34+ CELLS ARE BENEFICIAL IN REVERSING SPINAL CORD INFARCTION (Poster presentation)

17. 2007,Taipei 台灣組織相容免疫基因學會

Neuroinflammation and its modulation by human umbilical cord blood cells (Invited speaker)

18. 2008,Taipei 台灣婦產科醫學會年會 (口頭報告)

Premarin may Attenuate Spinal Cord Injury by Regulating Endogenous Inflammation Status and Stimulation Vascular Endothelial and Neurotrophic Factors

19. 2008,Taipei 台灣婦產科醫學會年會(口頭報告)

Premarin causes attenuation of traumatic brain injury by their antiapoptotic, anti-inflammatory, and neurotrophic potential

20. 2008,Taipei 台灣婦產科醫學會年會(口頭報告)

Human Umbilical Cord Blood-Derived CD34+ Cells Can Be Used As A Prophylactic Agent For Experimental Heatstroke

21. 2008, 南臺灣國際幹細胞研討會(Invited speaker)

Human umbilical cord blood derived CD34+ cells modulate neuroinflammation disease

22. 2004 Taipei 台灣婦產科醫學會年會

Early prenatal diagnosis of semilobar holoprosencephaly combined with a dorsal cyst and no facial defect

23. 2004 Taipei 台灣婦產科醫學會年會(Invited speaker)

Protective Effects of Purified Human Umbilical Cord Blood on Circulatory Shock and Cerebral Ischemia

24. 2004 Taipei 台灣婦產科醫學會年會

Prenatal diagnosis of Jeune Syndrome in a low-risk pregnancy--two cases report

25. 2005 Taipei 台灣婦產科醫學會年會

Infusion of Human Umbilical Cord Blood Cells Ameliorate Neurological Damage in Stroke Rodents

26. 2005 Taipei 台灣婦產科醫學會年會

Premarin Mediated Interleukin-10 Production Ameliorates Circulatory Shock and Cerebral Damage during Heatstroke

27. 2006 Tainan 台灣婦產科醫學會年會

Administration of Human Hematopoietic Stem Cells Attenuate coagulopathy during Experimental Heatstroke

28. 2006 Tainan 台灣婦產科醫學會年會

Resuscitation from experimental heatstroke by estrogen therapy

29. 2006 Tainan 台灣婦產科醫學會年會 (Invited speaker)

Medical and surgical management for postpartum hemorrhage

30. 2006 Tainan 台灣婦產科醫學會年會

Infusion of Human Umbilical Cord Blood Cells Protect against Cerebral Ischemia and Damage during Heatstroke

31. 2007 Taipei 台灣婦產科醫學會年會

Resuscitation from experimental heatstroke by combined human umbilical cord blood cells and hyperbaric oxygen therapy.

32. 2007 Taipei 台灣婦產科醫學會年會

Human umbilical cord blood derived CD34+ cells are beneficial in reversing spinal cord infarction and apoptosis of spinal cord injured rats.

33. 2007 Taipei 台灣婦產科醫學會年會

Estrogen replacement with premarin rescues mice from heatstroke-induced death.

34. 2008 Taipei台灣婦產科醫學會年會

Premarin causes attenuation of traumatic brain injury by their antiapoptotic, anti-inflammatory, and neurotrophic potential.

35. 2008 Taipei台灣婦產科醫學會年會

Premarin Attenuate Spinal Cord Injury by Regulating Endogenous Inflammation Status and Stimulation Vascular Endothelial and Neurotrophic.

36. 2008 Taipei台灣婦產科醫學會年會

Human umbilical cord blood-derived CD34+ cells can be used as a prophylactic agent

for experimental heatstroke.

37. 2008 Philadelphia, America 6th ISSCR(International Society of Stem Cell Reseach) Annual Meeting. ADMINISTRATION OF HEMATOPOIETIC STEM CELLS DERIVED FROM HUMAN UMBILICAL CORD BLOOD CAUSES ATTENUATION OF TRAUMATIC BRAIN INJURY BY THEIR ANTIAPOPTOTIC, ANTI-INFLAMMATORY, AND NEUROTROPHIC POTENTIAL (Poster presentation)

38. 2008 ,17-19,Oct . Macau SAR, China. 4th Asia Pacific Congress in Maternal Fetal Medicine 優秀論文 Administration of human umbilical cord blood cells causes attenuation of experimental traumatic brain injury by their antiapoptotic, anti-inflammatory, and neurotrophic potential.

39. 2009 Taichung 台灣婦產科醫學會年會

Human Umbilical Cord Blood Cells Ameliorate Hindlimb Function in Experimental Spinal Cord Injury by Its anti-inflammation, Vasculogenic and Neurotrophic Potential

40. 2009 Taichung 台灣婦產科醫學會年會

Administration of Human Umbilical Cord Blood Cells Causes Attenuation of Traumatic Brain Injury by Their Antiapoptotic, Anti-inflammatory, and Neurotrophic Potential

41. 2009 Taichung 台灣婦產科醫學會年會

Human Umbilical Cord Blood Cells Protect against Hypothalamic Apoptosis and Systemic Inflammation Response during Heatstroke in Rats

42. 2009 Taichung 台灣婦產科醫學會年會

Prenatal diagnosis of renal duplication combined with ureteropelvic junction obstruction at mid-trimester: A case report

43. 2009 Taichung 台灣婦產科醫學會年會

Dengue virus infection in early gestation led to deliver an uncomplicated fetus and no

vertical transmission-A Case Report

44. 2009 Taichung 台灣婦產科醫學會年會

Prenatal diagnosis of unilateral ventriculomegaly at mid-trimester with spontaneously progressive resolution and led to delivery of an uncomplicated neonate: A case report

45. 2009 Taichung 台灣婦產科醫學會年會

Premarin can act via estrogen receptors protect against traumatic brain injury in rats

46. 2009 Tainan 生醫與新藥發展國際研討會 **(Invited speaker)**

Premarin modulates neuroinflammation disease

47. 2009 Taichung 泛太平洋國際幹細胞醫學會 **(Invited speaker)**

Therapeutic effects of paracrine secretions produced from administration of human umbilical cord blood cells on acute stage of neuro-inflammation disease

48. 2009 Tainan 幹細胞與生物工程國際研討會 **(Invited speaker)**

Estrogen Causes Attenuation Of Traumatic Brain Injury By Enhancing, Anti-Inflammation, Circulation Endothelial Progenitor Cells, Vasculogenesis And Neurogenesis In Male Rats

49. The 3rd International Symposium on Physiology and Pharmacology of Temperature Regulation 2009 (PPTR2009) **(Invited speaker)** Human umbilical cord blood cells protect against hypothalamic neuron apoptosis and systemic inflammation response during heatstroke. Matsue, Japan. 23-26, July, 2009

50. 2009 Taipei The 22nd Biennial Meeting of the ISN/APSN Joint Meeting Taiwan Satellite Conference

NOVEL STRATEGIES FOR INTERVENTION IN NEURODEGENERATIVE DISEASES**(Poster presentation)**

51. 2010 Taichung 台灣婦產科醫學會年會

Paracrine effects of CD34+ cells derived from human umbilical cord blood cells attenuating experimental traumatic brain injury via increasing endogenous circulating

progenitor cells, vasculogenosis, and neurogenesis.

52. 2010 Taichung 台灣婦產科醫學會年會

Granulocyte colony-stimulating factor protect against heatstroke by reducing hypothalamic neuronal damage, the systemic inflammatory responses and vascular endothelial damage.

53. 2010 Taichung 台灣婦產科醫學會年會

Oxytocin administered to ovariectomized female rats can protect against heatstroke via increasing circulating endothelial progenitor cells.

54. 2010 Tainan, International Symposium of Sports Science in Southern Taiwan, 2010. Decrement of Endothelial Function by Strenuous Exercise Training may be Harmful to Heat Tolerance in Mice.

55. 2010 Copenhagen, Denmark 16th World Congress on Basic and Clinical Pharmacology. FOCUSED CONFERENCE GROUP: P09 - NFLAMMATION AND IMMUNOPHARMACOLOGY: NEW TOOLS FOR OLD DISEASES OXYTOCIN INJECTED ON OVARIECTOMIZED FEMALE RATS CAN AMELIORATE HEATSTROKE VIA INCREASING CIRCULATING ENDOTHELIAL PROGENITOR CELLS

56. 2010 Hanoi, Vietnam 1st Asia Men's and Women's Health Summit. Lifestyle Management of Menopausal Symptoms and Women's Health.

57. 2011 Kaohsiung 台灣婦產科醫學會年會

Kynurenic acid may attenuate multiorgan dysfunction in rats after heat stroke.

58. 2011 Kaohsiung 台灣婦產科醫學會年會

妊娠 35 週併發急性腦中風同時潛在有紅斑性狼瘡及感染性心內膜炎所致金屬心瓣膜置換

59. 2011 Kaohsiung 台灣婦產科醫學會年會

Comparison of heat tolerance among the male, proestrus female and pregnant mice.

60. 2011 Kaohsiung 台灣婦產科醫學會年會

A potential for granulocyte-colony stimulating factor for use as a prophylactic agent for heatstroke in rats.

61. 2011 Rotterdam, Netherlands 17th ISCT Annual Meeting. Human umbilical cord

blood-derived CD34+ cells attenuates apoptosis and inflammation but stimulates angiogenesis and neurogenesis after traumatic brain injury in rats.
62. 2011 中國 銀川 The 8th Scientific Conference on Cardiovascular Sciences Across the Strait. Neuroprotective and Angiogenesis Features of Human Umbilical Cord Blood Derived Hematopoietic Stem Cell.
63. 2011 中國 銀川 The 8th Scientific Conference on Cardiovascular Sciences Across the Strait. Oxytocin Attenuates Experimental Heatstroke Via Enhancing Cirulating Endothelial Progenitor Cells in Ovarivectomized Rats.
64. 2011 Janpan 1st Taiwan-Kroea-Japan Symposium in Maternal-Fetal Medicine Program. Prenatal detection of FGR using 3D ultrasound: review of efficacy.
65. 2011 Japan 1st Taiwan-Kroes-Japan Symposium in Maternal-Fetal Medicine Program. Human umbilical cord blood-derived CD34+ cells attenuates apoptosis and inflammation but stimulates angiogenesis and neurogenesis after traumatic brain injury in rats.
66. 2011 Taipei International Symposium on Recent Advances in Pluripotent Stem Cells & 7th Annual Meeting of Taiwan Society for Stem Cell Research. Human umbilical cord blood-derived CD34+ cells attenuate inflammations but stimulate both angiogenesis and neurogenesis after traumatic brain injury in rats.
67. 2011 Tainan 1st Taiwan International Conference for Fetal Medicine；3rd Cross Strait Forum for Perinatal Medicine. Human umbilical cord blood derived CD34+ cells attenuate maternal morbidity and neonatal encephalopathy caused by pregnant mice under heat stress.
68. 2011 Tainan 1st Taiwan International Conference for Fetal Medicine；3rd Cross Strait Forum for Perinatal Medicine. Acute stroke attacked during third trimester with underlying systematic leupus erythematosus and mechanical valve replacement due to infective endocarditis-A Case Report
69. 2011 Tainan 1st Taiwan International Conference for Fetal Medicine；3rd Cross Strait Forum for Perinatal Medicine. Comparison of heat tolerance among the male, proestrus female and pregnant mice.
70. 2011 Tainan 1st Taiwan International Conference for Fetal Medicine；3rd Cross Strait Forum for Perinatal Medicine. Castration may protect male mice from heat-induced hypothalamic apoptosis and degeneration.
71. 2011 Tainan 1st Taiwan International Conference for Fetal Medicine；3rd Cross Strait Forum for Perinatal Medicine. Prenatal diagnosis of congenital cystic adenomatoid malformation at early midtrimester-A Case Report
72. 2011 Tainan 1st Taiwan International Conference for Fetal Medicine；3rd Cross Strait Forum for Perinatal Medicine. Prenatal diagnosis of omphalocele concurrent with thickened nuchal translucency in the first trimester-A Case Report

73. 2011 Tainan 1st Taiwan International Conference for Fetal Medicine；3rd Cross Strait Forum for Perinatal Medicine. Recombinant factor Ⅶ resuscitate experimental heatstroke via attenuating vascular endothelial damage.
74. 2011 Tainan 1st Taiwan International Conference for Fetal Medicine；3rd Cross Strait Forum for Perinatal Medicine. Comparison of therapeutic effects between human umbilical cord decrived mesenchymal stem cells and human umbilical cord blood derived hematopoietic stem cells on experimental heatstroke.

Published Papers:

1. Hsieh YC, Chen RF, Su CK, **Chen SH***, Hsieh JH. Mediation of vagal cardioinhibitory responses by glutamatergic receptors in the caudal medulla of turtles. Chin J Physiol. 2011 Feb 28;54(1):47-54. **(SCI, IF: 0.683; Ranking 71/78)**
2. Yung MC, Hsu CC, Kang CY, Lin CL, Chang SL, Wang JJ, Lin MT, Chen PJ, **Chen SH.*** A potential for granulocyte-colony stimulating factor for use as a prophylactic agent for heatstroke in rats. Eur J Pharmacol. 2011, 661(1-3): 109-17. **(SCI, IF: 2.737; Ranking 90/252)**
3. Hsieh YC, Chen RF, Yeh YS, Lin MT, Hsieh JH, **Chen SH,*.** Kynurenic acid may attenuate multiorgan dysfunction in rats after heat stroke. Acta Pharmacol Sin. 2011; 32(2):167-74. **(SCI, IF: 1.909; Ranking 48/147)**
4. **Chen SH**, Yeh CH, Lin MYS, Kang CY, Chu CC, Chang FM, Wang JJ. Premarin improves outcomes of spinal cord injury in male rats via stimulating both angiogenesis and neurogenesis. Crit Care Med. 2010; 38(10):2043-51. **(SCI, IF: 6.254; Ranking 2/23)**
5. Lin CY, Lin MT, Cheng RT, Chen SH. Testosterone depletion by castration may protect mice from heat-induced multiple organ damage and lethality. J Biomed Biotechnol. **In press 2010. (SCI, IF: 1.230; Ranking 111/160)**
6. **Chen SH.*** , Chang CY , Chang HK , Chen WC , Lin MT , Wang JJ , Chen CY

Jeffrey , Chang FM. Premarin stimulates estrogen receptor-alpha to protect against traumatic brain injury in male rats. Crit Care Med. 2009 Dec;37(12):3097-106. **(SCI, IF: 6.254; Ranking 2/23)**

7. Tsai HC , Lin CC, Hong NS, Kuo TN, Huang YY, Mike Lin YS, Loo TC, Huang KF, Wang JJ, **Chen SH**.* Dengue virus infection in early gestation led to deliver an uncomplicated fetus and no vertical transmission. Taiwan J Obstet Gynecol. 2010; 49(1): 112−114. **(SCI, IF: 0.947; Ranking 60/77)**
8. Liu WS, Chen CT, Foo NH, Huang HR, Wang JJ, **Chen SH**,* Chen TJ. Human Umbilical Cord Blood Cells Protect against Hypothalamic Apoptosis and Systemic Inflammation Response during Heatstroke in Rats. Pediatr neonatol. 2009;50(5):208−216. **(SCI, IF: 0.747; Ranking 91/109)**
9. Hong NS, Su CJ, Kuo TN, Tsai HC, Lin MY, Loo TC, Huang KF, **Chen SH**.* Early prenatal diagnosis of semilobar holoprosencephaly combined with a dorsal cyst and no facial defect. Taiwan J Obstet Gynecol. 2008 ;47(4):438-40. **(SCI, IF: 0.947; Ranking 60/77)**
10. Chen CT, Foo NH, Liu WS, **Chen SH**.* Infusion of human umbilical cord blood cells ameliorates hind limb dysfunction in experimental spinal cord injury through anti-inflammatory, vasculogenic and neurotrophic mechanisms. Pediatr neonatol. 2008 ;49:77-83. **(SCI, IF: 0.747; Ranking 91/109)**
11. Shen KH, Lin CH, Chang HK, Chen WC, **Chen SH**.* Premarin can act via estrogen receptors to rescue mice from heatstoke-induced lethality. Shock. 2008 ;30:668-74. **(SCI, IF: 3.203; Ranking 20/188)**
12. Kao CH, **Chen SH (equal contribution to 1st author)**, Chio CC, Chan CK, Lin MT. Exogenous administration of glial cell line-derived neurotrophic factor improves recovery after spinal cord injury. Resuscitation. 2008;77:395-400. **(SCI, IF: 4.177; Ranking 1/23)**

13. Hwang WS, **Chen SH(equal contribution to 1st author)** , Lin CH , Chang HK , Chen WC , Lin MT. Human Umbilical Cord Blood-Derived CD34+ Cells Can Be Used As A Prophylactic Agent For Experimental Heatstroke. J Pharmacol Sci. 2008;106: 46-55. **(SCI, IF: 2.260; Ranking 129/252)**
14. Kao CH, **Chen SH**, Chio CC, Lin MT. Human umbilical cord blood derived CD34+ cells may attenuate spinal cord injury by stimulating vascular endothelial and neurotrophic factors. Shock. 2008; 29: 49-55. **(SCI, IF:3.203; Ranking 20/188)**
15. Chen YW, **Chen SH**, Chou W, Lo YM, Hung CH, Lin MT. Exercise pretraining protects against heatstroke-induced cerebral ischemia in rats. Br J Sports Med. 2007 Sep;41(9):597-602. **(SCI, IF: 3.545; Ranking 6/80)**
16. **Chen SH**, Chang FM, Chang HK, Chen WC, Huang KF, Lin MT. Human umbilical cord blood-derived CD34+ cells cause attenuation of multiorgan dysfunction during experimental heatstroke. Shock. 2007 Jun; 27(6):663-671. **(SCI, IF: 3.203; Ranking 20/188)**
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