

Application for SNACC Director-at-large 2022 : Entry # 44**Name**

Ruquan Han

Degrees

MD, PhD

Current Institution

Beijing Tiantan Hospital, Capital Medical University, Beijing, China

SNACC Member Since:

2008

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Services to SNACC (limit to no more than 5 most significant services):

- Editor of SNACC Newsletter Chinese translation since 2018
- Director of ICPNT training program, Beijing Tiantan Hospital, Capital Medical University
- Clinical Affairs Committee member, SNACC
- Editorial committee member, Journal of Neurosurgical Anesthesiology

Relevant leadership experience (limit to no more than 5):

- 2008-now Chair, Department of Anesthesiology, Beijing Tiantan Hospital, Capital Medical University
- 2015-now Deputy president, Anesthesiology branch of Beijing Medical Association
- 2015-now Deputy Director, Group of Neuroanesthesia, Chinese Society of Anesthesiology
- 2020-now Director of ICPNT training program, Beijing Tiantan Hospital, Capital Medical University
- 2022- Director, Group of Neuroanesthesia, Chinese Society of Anesthesiology

Your commitment to diversity, equity and inclusion (limit 50 words):

promote neuroanesthesia academic development in China, contribute to the geographical diversity to make SNACC a international society

How do you envision advancing SNACC as a Director at Large (limit 150 words):

Promote neuroanesthesia academic development in China, develop multi-center clinical trials in neuroscience in neuroanesthesia and critical care, organize more colleagues to attend SNACC academic events including annual meeting, contribute to the geographical diversity to make SNACC a truly international society

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Anything else you would like considered in your candidacy (limit 50 words):

As a candidate representing China

Notes



Admin Notification (ID: 6241f2322e665)

added April 30, 2022 at 11:57 pm

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Curriculum Vitae

Ruquan Han, M.D., Ph.D. May 9, 2017

GENERAL STATUS

Name: Ruquan Han, M.D., Ph.D. (韩如泉)

Date of Birth: 01/22/1971

Nationality: Chinese

Current affiliation and designation:

Department of Anesthesiology
Beijing Tiantan Hospital, Capital Medical University
No.6 TiantanXili, Beijing, 100050
Phone (8610) 67036660 (office), 86-13701285393 (mobile)
E-Mail: ruquan.han@ccmu.edu.cn, hanrq666@aliyun.com,

EDUCATION:

<u>Sep. 1988-Aug. 1993</u>	B. S., Capital Medical University, P. R. China
<u>Sep. 1993-Aug. 1996</u>	M. D. in Anesthesiology, Capital Medical University, P. R. China
<u>Sep. 2000-June. 2003</u>	Ph.D. in Anesthesiology, Capital Medical University, P. R. China
<u>Aug. 2006-Sep. 2007</u>	Postdoc. Fellow, Stanford University Medical School, U.S.A.

PROFESSIONAL EXPERIENCE

<u>July. 2012-now</u>	Vice president, Department of Anesthesiology, Capital Medical University
<u>Sept. 2010-now</u>	Professor of Anesthesiology
<u>Nov. 2009-now</u>	Doctoral mentor, Capital Medical University
<u>Jan. 2008-now</u>	Chair, Department of Anesthesiology, Beijing Tiantan Hospital, Capital Medical University
<u>June. 2004-Dec.2007</u>	Vice Chair, Department of Anesthesiology, Beijing Tiantan Hospital,

Capital Medical University

Dec. 2008-now

Chief Anesthesiologist, Department of Anesthesiology, Beijing
Tiantan Hospital, Capital Medical University

Sep. 2003-Dec. 2008

Associate Chief Anesthesiologist, Department of Anesthesiology,
Beijing Tiantan Hospital, Capital Medical University

Sep. 1998-Aug. 2003

Attending Anesthesiologist, Department of Anesthesiology, Beijing
Tiantan Hospital, Capital Medical University

Sep. 1996-Aug. 1998

Resident, Department of Anesthesiology, Beijing Tiantan Hospital,
Capital Medical University

Sep. 1993-Aug. 1996

Graduate Student in Anesthesiology, Capital Medical University

PROFESSIONAL SOCIETIES

2006-2009 Editorial member, Forum of Anesthesia and Monitoring

2005-2010 Vice president, Beijing Anesthesia and Pain Control and Quality Improvement Center

2006-2009 Young committee member, Anesthesiology branch of Beijing Medical Association

2007-2010 Committee member, Group of Neuroanesthesia, Chinese Society of Anesthesiology Oct

2008-2011 Committee member, Beijing Society of Anesthesiologists expert committee

2009-2012 Committee member, Anesthesiology branch of Beijing Medical Association

2008-now Committee member, Chinese branch, World Society of Pain Clinicians

2008-2014 Committee member, Department of Anesthesiology, Capital Medical University

2009-now Editorial member, Chinese Journal of Clinicians

2010-now Academic secretary, Group of Neuroanesthesia, Chinese Society of Anesthesiology

2011-now Committee member, Chinese Anesthesiology Association

2011-2014 Standing Committee member and secretary, Anesthesiology branch of Beijing Medical Association

2011-now Editorial member, Chinese Journal of Anesthesiology

2012-now Editorial member, International Journal of Anesthesiology and Resuscitation

2012-now Vice president, Department of Anesthesiology, Capital Medical University

2012-now 11th Standing Committee member, Anesthesiology branch of Beijing Medical Association

2012-now 1st Standing Committee member, Chinese Society of Integrative Anesthesiology

2012-now Deputy Director, Column of Neuroanesthesia, Chinese Journal of Anesthesiology

2014-now Deputy Director, Anesthesiology branch of Beijing Medical Association

2014-now Editorial member, The Journal of Clinical Anesthesiology

2015-now 12th Vice President, Anesthesiology branch of Beijing Medical Association

2015-now 12th Deputy Director, Group of Neuroanesthesia, Chinese Society of Anesthesiology

2015-now 12th Vice Chief Young committee member, Chinese Society of Anesthesiology

HONORS and AWARDS

2006 Science & Technology Star, Beijing Municipal Science & Technology Commission

International Invited Lectures

1. Han RQ. Perioperative stroke. World Congress of Anesthesiologists 2016, China, Hong Kong 2016.8
2. Han RQ. Fluid management for neurosurgical patients. FRACTA, China, Shanghai 2013.4
3. Han RQ. Aesthetic management for occlusive cerebrovascular disease. Indonesia, Bali. 3rd annual meeting of Asian society for neuroanesthesia and intensive care, 2013.2
4. Han RQ. Airway management in neurosurgical emergencies. 13th annual meeting of Indian society for neuroanesthesia and intensive care. India, Bhopal, 2012.2
5. Han RQ, Cheng H, Wang DX, Ren XJ, Jiang T. Electro-Acupuncture Analgesia for Conscious Sedation during Awake Craniotomy for Tumor Surgery. ASA annual meeting, San Francisco, 2008.10 poster presentation
6. Han RQ, Quyang YB, Xu LJ, Agrawal R, Patterson AJ, Giffard RG. Post-ischemic Brain Injury is Attenuated in Mice Lacking the β 2- Adrenergic Receptor. ASA annual meeting, San Francisco, 2007.10. poster presentation
7. Han RQ, Xu LJ, Agrawal R, Patterson AJ, Giffard RG. Brain injury is attenuated after transient focal ischemia in mice lacking β 2-adrenergic receptors. SNACC annual meeting, San Francisco, 2007,10. poster presentation

PUBLICATIONS:

170 papers (26 SCI publications)

Editor of 11 books in Chinese

1. Peng Y, Li Y, Jian M, Liu X, Sun J, Jia B, Dong J, Zeng M, Lin N, Zhang L, Gelb AW, Chan MT, Han R. Choice of Anesthesia for Endovascular Treatment of Acute Ischemic Stroke: Protocol for a randomized controlled (CANVAS) trial. *Int J Stroke*. 2017 Jan 1;1747493017706243. doi: 10.1177/1747493017706243. [Epub ahead of print] PubMed PMID: 28436307
2. Wang Y, Han R, Zuo Z. Dexmedetomidine-induced neuroprotection: is it translational? *Transl Perioper Pain Med*. 2016;1(4):15-19. PubMed PMID: 28217717; PubMed Central PMCID: PMC5310645
3. Guo L, Li Y, Han R, Gelb AW. The Correlation Between Recordable MEPs and Motor Function During Spinal Surgery for Resection of Thoracic Spinal Cord Tumor. *J Neurosurg Anesthesiol*. 2016 Nov 15. [Epub ahead of print] PubMed PMID: 27851693.
4. Lin N, Han R, Zhou J, Gelb AW. Mild Sedation Exacerbates or Unmasks Focal Neurologic Dysfunction in Neurosurgical Patients with Supratentorial Brain Mass Lesions in a Drug-specific Manner. *Anesthesiology*. 2016 Mar;124(3):598-607. doi: 10.1097/ALN.0000000000000994, PubMed PMID: 26756518.
5. Yu Y, Lu Y, Meng L, Han R. Monitoring cerebral ischemia using cerebral oximetry: pros and cons. *J Biomed Res*. 2015 Oct 28;30. doi:10.7555/JBR.30.20150096. [Epub ahead of print] PubMed PMID: 26679787.
6. Liu X, Li H, Luo F, Zhang L, Han R, Wang B. Variation of the default mode network with altered alertness levels induced by propofol. *Neuropsychiatr Dis Treat*. 2015 Oct 7;11:2573-81. doi: 10.2147/NDT.S88156. eCollection 2015. PubMed PMID: 26504389; PubMed Central PMCID: PMC4605232.
7. Liu H, Jian M, Liang F, Yue H, Han R. Anti-N-methyl-D-aspartate receptor encephalitis associated with an ovarian teratoma: two cases report and anesthesia considerations. *BMC Anesthesiol*. 2015 Oct 16;15:150. doi:10.1186/s12871-015-0134-5. PubMed PMID: 26475263; PubMed Central PMCID: PMC4609123.

8. Meng L, Hou W, Chui J, Han R, Gelb AW. Cardiac Output and Cerebral Blood Flow: The Integrated Regulation of Brain Perfusion in Adult Humans. *Anesthesiology*. 2015 Nov;123(5):1198-208. doi: 10.1097/ALN.0000000000000872. PubMed PMID: 26402848.
9. Peng Y, Zhang W, Kass IS, Han R. Lidocaine Reduces Acute Postoperative Pain After Supratentorial Tumor Surgery in the PACU: A Secondary Finding from a Randomized, Controlled Trial. *J Neurosurg Anesthesiol*. 2015 Sep 20. [Epub ahead of print] PubMed PMID: 26397235.
10. Peng Y, Zhang W, Zhou X, Ji Y, Kass IS, Han R. Lidocaine Did Not Reduce Neuropsychological-Cognitive Decline in Patients 6 Months After Supratentorial Tumor Surgery: A Randomized, Controlled Trial. *J Neurosurg Anesthesiol*. 2016 Jan;28(1):6-13. PubMed PMID: 26083427.
11. Cui W, Wang S, Han R, Wang Q, Li J. CaMKII Phosphorylation in Primary Somatosensory Cortical Neurons is Involved in the Inhibition of Remifentanyl-induced Hyperalgesia by Lidocaine in Male Sprague-Dawley Rats. *J Neurosurg Anesthesiol*. 2016 Jan;28(1):44-50. PubMed PMID: 25811361.
12. Lu Y, Jian MY, Ouyang YB, Han RQ. Changes in Rat Brain MicroRNA Expression Profiles Following Sevoflurane and Propofol Anesthesia. *Chin Med J (Engl)*. 2015 Jun 5;128(11):1510-5. doi: 10.4103/0366-6999.157676. PubMed PMID: 26021509.
13. Lu Y, Jian M, Xiong W, Han R. [Effects of propofol on miR-181a and Bcl-2 expression in glucose deprivation cultured astrocytes]. *Zhonghua Yi Xue Za Zhi*. 2014 Oct 21;94(38):3020-3. Chinese. PubMed PMID: 25547709.
14. Yu Y, Jian MY, Wang YZ, Han RQ. Propofol ameliorates calpain-induced collapsing response mediator protein-2 proteolysis in traumatic brain injury in rats. *Chin Med J (Engl)*. 2015 Apr 5;128(7):919-27. doi: 10.4103/0366-6999.154298. PubMed MID: 25836613.
15. Peng Y, Liu X, Wang A, Han R. The effect of mannitol on intraoperative brain relaxation in patients undergoing supratentorial tumor surgery: study protocol for a randomized controlled trial. *Trials*. 2014 May 10;15:165. doi: 10.1186/1745-6215-15-165. PubMed PMID: 24884731; PubMed Central PMCID: PMC4018619.
16. Yue HL, Shao LJ, Li J, Wang YN, Wang L, Han RQ. Effect of epidural analgesia with 0.075% ropivacaine versus 0.1% ropivacaine on the maternal temperature during labor: a randomized controlled study. *Chin Med J (Engl)*. 2013 Nov;126(22):4301-5. PubMed PMID: 24238518.
17. He Y, Zhou DB, Wang HW, Han RQ. [Clinical analysis of trigemino-cardiac reflex during surgery for patients with skull base tumors]. *Zhonghua Yi Xue Za Zhi*. 2013 Jan 15;93(3):215-7. Chinese. PubMed PMID: 23570598.

18. Wang LX, Wang AD, Han RQ. [Effects of total intravenous anesthesia on evoked potentials during aneurysm clip placement surgery]. *Zhonghua Yi XueZaZhi*. 2012 Jan 17;92(3):165-9. Chinese. PubMed PMID: 22490737.
19. Yang C, An L, Han R, Kang X, Wang B. Effects of combining electroacupuncture with general anesthesia induced by sevoflurane in patients undergoing supratentorial craniotomy and improvements in their clinical recovery profile & blood enkephalin. *AcupunctElectrother Res*. 2012;37(2-3):125-38. PubMed PMID: 23156204
20. Liu HY, Zeng HY, Cheng H, Wang MR, Qiao H, Han RQ. Comparison of the effects of etomidate and propofol combined with remifentanil and guided by comparable BIS on transcranial electrical motor-evoked potentials during spinal surgery. *J NeurosurgAnesthesiol*. 2012 Apr;24(2):133-8. doi: 10.1097/ANA.0b013e31823dfb2e. PubMed PMID: 22126894.
21. White RE, Palm C, Xu L, Ling E, Ginsburg M, Daigle BJ, Han R, Patterson A, Altman RB, Giffard RG. Mice lacking the β 2 adrenergic receptor have a unique genetic profile before and after focal brain ischaemia. *ASN Neuro*. 2012 Sep 7;4(5). pii: e00096. doi: 10.1042/AN20110020. PubMed PMID: 22867428; PubMed Central PMCID: PMC3436074.
22. Liu S, Wang B, Li S, Zhou Y, An L, Wang Y, Lv H, Zhang G, Fang F, Liu Z, Han R, Jiang T, Kang X. Immune cell populations decrease during craniotomy under general anesthesia. *AnesthAnalg*. 2011 Sep;113(3):572-7. doi: 10.1213/ANE.0b013e3182278237. Epub 2011 Aug 3. PubMed PMID: 21813628.
23. Han RQ, Ouyang YB, Xu L, Agrawal R, Patterson AJ, Giffard RG. Postischemic brain injury is attenuated in mice lacking the beta2-adrenergic receptor. *AnesthAnalg*. 2009 Jan;108(1):280-7. doi: 10.1213/ane.0b013e318187ba6b. PubMed PMID:19095863; PubMed Central PMCID: PMC3661414.
24. Giffard RG, Han RQ, Emery JF, Duan M, Pittet JF. Regulation of apoptotic and inflammatory cell signaling in cerebral ischemia: the complex roles of heat shock protein 70. *Anesthesiology*. 2008 Aug;109(2):339-48. doi:10.1097/ALN.0b013e31817f4ce0. Review. PubMed PMID: 18648242; PubMed Central PMCID: PMC2561962.
25. Han RQ, Wang BG, Li SR, Wang EZ, Liu W, Wang S, Zhao JZ. [The effect of intraoperative continuous nimodipine infusion on cerebral vasospasm during intracranial aneurysm surgery]. *Zhonghua Wai KeZaZhi*. 2004 Dec 22;42(24):1489-92. Chinese. PubMed PMID: 15733479.
26. Han RQ, Li SR, Wang BG, Wang EZ, Liu W, Wang S, Zhao JZ. [The effect of isoflurane induced hypotension on intraoperative cerebral vasospasm in intracranial aneurysm surgery]. *Zhonghua Yi XueZaZhi*. 2004 Feb 17;84(4):286-9. Chinese. PubMed PMID: 15059509.
27. Han RQ, Cheng H, Wang DX, Ren XJ, Jiang T. Electro-Acupuncture Analgesia for Conscious Sedation

- during Awake Craniotomy for Tumor Surgery. *Anesthesiology* 2008; 109: A1657
28. Cheng H, Wang DX, Han RQ, Wang BG. Comparison of target controlled infusion and intermittent sufentanil during awake craniotomy. *Anesthesiology*, 2007, 107: A1488 (ASA abstract)
 29. Han RQ, Xu LJ, Agrawal R, Patterson AJ, Giffard RG. Postischemic brain injury is attenuated in mice lacking the β_2 -adrenergic receptors. *Anesthesiology*, 2007, 107: A2005 (ASA abstract)
 30. Han RQ, Xu LJ, Agrawal R, Patterson AJ, Giffard RG. Brain injury is attenuated after transient focal ischemia in mice lacking β_2 -adrenergic receptors. *J Neurosurgical Anesthesiology*, 2007, 19(4): 292 (abstract)
 31. Cheng H, Meng L, Han RQ, Wang BG. Effect of isoflurane-induced hypotension on the CSF concentration of free fatty acids. *Anesthesiology*, 2006, 105: A436 (ASA abstract)
 32. Peng Y, Zhang W, Zhou X, Han R. The effect of lidocaine on plasma S100 β protein in patients with supratentorial tumor surgery. *Chinese J of Postgraduates of Medicine*. 2014, 37(9):39-41, Chinese
 33. Peng Y, Zhang W, Zhou X, Ji Y, Han R. The effect of lidocaine on postoperative cognitive dysfunction in patients after supratentorial tumor surgery. *International Journal of Anesthesiology and Resuscitation*. 2014, 35(6), Chinese
 34. Peng Y, Zhou X, Ji Y, Zhang W, Han R. The effect of lidocaine on brain oxygenation metabolism and energy metabolism during supratentorial tumor surgery. *Journal of Clinical Anesthesiology*. 2014, 30(1). Chinese
 35. Wang LX, Wang YZ, Kan Q, Han RQ. The feasibility research of dexmedetomidine sedation during cerebral angiography. *Chinese J of Postgraduates of Medicine*. 2013, 36(36), Chinese
 36. Wang H, Shao L, Hou C, Zhang X, Han R. Analysis of risk factors for postoperative nausea and vomiting following neurosurgical anesthesia. *Chinese Journal of Neurosurgery*. 2014, 30(2). Chinese.
 37. Cui W, Wang Q, Han R, Ding G, Li Y. The analysis of effect of training quality in teaching base hospital on results of clinical skill examination for anesthesia resident in Beijing. *Journal of Clinical and Experimental Medicine*. 2014, 13(6). Chinese
 38. Li J, Wang Q, Han R, Ding G, Li Y. Study on the impact of clinical training course on improving clinical thinking ability of anesthesia resident physicians. *Journal of Clinical and Experimental Medicine*. 2014, (9). Chinese

39. Jian M, Han R. Effects of noncoding RNA on brain function. *International Journal of Anesthesiology and Resuscitation*. 2014, 35(10). Chinese
40. Yu Y, Zhang K, Han R. Sevoflurane versus propofol anesthesia for craniotomy in adults: a systematic review and meta-analysis. *J of Capital L Medical University*. 2013, 34(5). Chinese
41. Yu Y, Han R. Application of biomarkers in traumatic brain injury. *International Journal of Anesthesiology and Resuscitation*. 2013, 34(2). Chinese
42. Liang F, He Y, Cui W, Jiao X, Wang R, Zhang D, Han R. Effects of sevoflurane-remifentanyl anesthesia on the balance between cerebral oxygen supply and demand during cerebral revascularization for ischemic moyamoya disease. *Chinese Journal of Anesthesiology*. 2013, 33(2), Chinese
43. Jian M, Wang C, Li X, Kang X, Han R. Effects of Flubiprofen on coagulation function for neurosurgical patients. *Chinese Journal of Clinicians(Electronic Edition)*. 2013, 7(10). Chinese
44. He Y, Zhou D, Wang H, Han R. Clinical analysis of trigemino-cardiac reflex during surgery for patients with skull base tumors. *National Medical Journal of China*. 2013, 93(3) Chinese
45. Wang S, Han R. Progress of the preconditioning mechanism on ischemia-reperfusion injury and its application prospect. *J of Capital L Medical University*. 2013, 34(6). Chinese
46. Hui J, Han R. Evoked potentials monitoring and its influential factors during neurosurgery. *International Journal of Anesthesiology and Resuscitation*. 2012, 33(2). Chinese
47. Wang H, Hou C, Zhang X, Han R. Incidence of postoperative nausea and vomiting following neurosurgical procedures in postanesthesia care unit. *Chinese Journal of Neurosurgery*. 2012, 28(4). Chinese
48. Wang H, Zhang X, Hou C, Han R. Prevention and treatment of complications of transnasal-sphenoidal microsurgery for pituitary adenoma in the post-anesthesia care unit. *Beijing Medical Journal*. 2012, 34(2). Chinese
49. Wang H, Hou C, Zhang X, Han R. Analysis of postoperative residual paralysis and respiratory function of patients undergoing neurosurgical anesthesia. *Chinese Journal of Postgraduates of Medicine*. 2012, 35(11). Chinese
50. Liang F, Han R. Anesthetic management for patients with moyamoya disease. *International Journal of Anesthesiology and Resuscitation*. 2012, 33(9). Chinese
51. Hui J, Cui W, Liu L, Wang M, Qiao H, Zhang D, Wang S, Han R. Comparison of accuracy of jugular venous oxygen saturation, somatosensory evoked potentials and motor evoked potentials in estimation of occurrence of intraoperative cerebral ischemia in patients undergoing clipping of intracranial aneurysm. *Chinese Journal of Anesthesiology*. 2012, 32(9). Chinese

52. Mei H, Wang E, Han R. Effects of small - volume resuscitation with hypertonic - hyperoncotic solutions on brain ultrastructure and expression of von Willebrand factor in traumatic brain injury and hemorrhagic shock model of rats. Chinese Journal of Neurosurgery. 2011, 27(12) .Chinese
53. Zhang K, Han R. Influence on regional oxygen saturation of deliberate hypotension using nicardipine. The Journal of Clinical Anesthesiology. 2012, 28(10). Chinese
54. Liang F, Han R. Near infrared spectroscopy monitoring regional cerebral oxygen saturation and its clinical application. International Journal of Anesthesiology and Resuscitation. 2012, 33(12). Chinese
55. Wang D, Peng K, Han R. Awake anesthesia for resection of gliomas located in eloquent brain. Chinese J Of Contemporary Neurologyand Neurosurgery. 2012, 12(6). Chinese
56. Zhang K, Han R. Influence of the depth of sedation on regional cerebral oxygen saturation monitoring in neurosurgery of supratentorial gliomas. Chinese J Of Contemporary Neurologyand Neurosurgery. 2012, 12(6). Chinese
57. Yang M, Geng Y, Wang G, Han R. The influence of awake craniotomy on postoperative neuropsychology. Chinese J Of Contemporary Neurologyand Neurosurgery. 2012, 12(6). Chinese
58. Liang F, He Y, Cui W, Jiao X, Wang R, Zhang D, Han R. The monitoring of cerebral oxygen balance during superficial temporal artery - middle cerebral artery bypass surgery for patients with Moyamoya disease. Chinese Journal of Neurosurgery. 2012, 28(5). Chinese
59. Liu H, Cheng J, JinH, Wang M, Cheng S, Qiao H, Han R. Establishment of anesthesia regimen for transcranial electrical motor evoked potentials monitoring in spine surgery. Chinese Journal of Neurosurgery. 2010, 26(12). Chinese

GRANT FUNDING

Total grants funded \$1,400,000

Ongoing Research Support:

1. PI, Beijing New-star Plan of Science & Technology Program, 2007B74. The Prevention and Treatment of Cerebral Vascular Spasm after SAH, \$80,000.
2. PI of branch program, Ministry of Science and Technology 973 Program (2007CB 512503). Theories and Mechanisms of Acupuncture Anesthesia in Craniotomy, \$72,400.
3. Beijing High-Level Health and Technical Talents (Leading Academics) Program, \$ 44,000.
4. PI, Beijing Clinical Research Plan of Science and Technology Program. Intraoperative Monitoring of Intracranial Aneurysms for Cerebral Ischemia with Evoked Potentials, \$ 22,000.

5. PI, Beijing Clinical Research Plan of Science and Technology Program. Perioperative Cerebral Ischemia Monitoring and Early-warning Threshold Study on Endarterectomy, \$ 22,000.
6. Participate, Beijing Clinical Research Plan of Science and Technology Program. Postoperative Analgesia in Pediatric Patients, \$ 22,000.
7. PI, Capital Foundation of Medical Developments (2016-1-20410). Impact of Depth of Anesthesia on the Clinical Outcomes of Intracranial tumors, \$ 217,000.
8. PI, Beijing Municipal Administration of Hospitals Key Disciplines Construction Program, Neuroanesthesia Plan, \$ 870,000.

Completed Research Support:

1. PI, Beijing Tiantan Hospital Foundation for Young Doctors (1997). Impact of Inhalational Anesthetics on Cerebral Physiology, \$ 1,500
2. PI, Beijing Tiantan Hospital Foundation for Young Doctors (1999). Postoperative Analgesia in Neurosurgery, \$ 1,500
3. PI, Beijing Tiantan Hospital Foundation for Young Doctors (2001). Brain Protection of Isoflurane preconditioning on Focal Cerebral Ischemia, \$ 1,500
4. PI, Beijing Administration of Traditional Chinese Medicine Program (200524). Use of Acupuncture Assisted Anesthesia in Resection of Glioma Located in Functional Area, \$ 8,700
5. PI, the Scientific Research Foundation for the Returned Overseas Chinese Scholars of State Education Ministry. Role of Early Inflammation in Delayed Cerebral Ischemia Damage after Subarachnoid Hemorrhage, \$ 5,800