

# Curriculum Vitae

## Zeguang Ren, MD. PhD.

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**Citizenship:** Chinese, US Permanent Resident (green card)

### Education and Professional Experience:

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- 2014- **Attending Neurosurgeon**, Tampa General Hospital, Department of Neurosurgery, University of South Florida, Tampa, Florida
- 2014- 2015 **Attending Neurosurgeon**, Lawnwood Neurosurgery at Lawnwood Regional Medical Center, Fort Pierce, Florida; Department of Neurosurgery, University of South Florida, Tampa, Florida
- 2007-2014 **Neurosurgery Residency**, Strong Memorial Hospital, University of Rochester
- 2010-2012 **Cerebrovascular/endovascular Fellowship**, Strong Memorial Hospital, University of Rochester
- 2009-2011 **Research Fellowship**, Neurosurgery Research and Education Foundation of American Association of Neurological Surgeon
- 2005-2007 **Clinical Neurosurgery Fellowship**, University of Washington, Seattle
- 2000-2005 **Post-doctoral Fellow**, Department of Surgery, Neurosurgery, Emory University
- 1997-2000 **PhD**, Beijing Neurosurgical Institute and Beijing Tiantan Hospital, Capital University of Medical Science, Beijing. Thesis study was done at Medical College of Wisconsin.
- 1993-1995 **Neurosurgery Residency**, Beijing Neurosurgical Institute and Beijing Tiantan Hospital, Beijing,
- 1990-1993 **Master of Neuroscience**, Beijing Neurosurgical Institute and Beijing Tiantan Hospital, Capital University of Medical Science, Beijing
- 1987-1990 **Neurosurgery Residency**, Hebei Medical College Hospital, Shijiazhuang, China
- 1982-1987 **MD**, Hebei Medical College, Shijiazhuang, China. Graduated with Honors

### Publications:

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1. **Ren, Z.**, Hintz, E., Replogle, R.; Minimally invasive multilevel anterior cervical discectomy and fusion using tubular retractor -- Technical note. In preparation.
2. **Ren, Z.**, Pilcher, W., Jahromi, B.; Complete resolution of a cervical spine aneurysmal bone cyst after single session of endovascular embolization -- Case report. In preparation.
3. **Ren, Z.**, Pilcher, W., Jahromi, B.; Unusual origin of posterior inferior cerebellar artery. In preparation.
4. **Ren, Z.**, Stone, J., Jahromi, B.; Computed tomography perfusion imaging in patients with seizures. In preparation.
5. Mokin M, Sonig A, Sivakanthan S, **Ren Z**, Elijovich L, Arthur A, Goyal N, Kan P, Duckworth E, Veznedaroglu E, Binning MJ, Liebman KM, Rao V, Turner RD 4th, Turk AS, Baxter BW, Dabus G, Linfante I, Snyder KV, Levy EI, Siddiqui AH. Clinical and Procedural Predictors of Outcomes From the Endovascular Treatment of Posterior Circulation Strokes. Stroke. 2016 Mar;47(3):782-8.

# Curriculum Vitae

## Zeguang Ren, MD. PhD.

6. Cotrina, M., Chen, M., Han, X., Iliff, J., **Ren, Z.**, Sun, W., Hagemann, T., Goldman, J., Messing, A., and Nedergaard, M.; Effects of traumatic brain injury on reactive astrogliosis and seizures in mouse models of Alexander disease. *Brain Research*. 2014, 25;1582:211-9
7. Rose, K., Stone, J., **Ren, Z.**, Wang, H and Jahromi, B. Percutaneous trigeminal rhizotomy in a biplane angiosuite: technical assessment. *J NeuroIntervent Surg* published online October 23, 2013, doi: 10.1136/neurintsurg-2013-010883
8. **Ren, Z.**, Chen, X., Yang, J., Kress, B., Tong, J., Liu H., Takano T., Zhao, Y. and Nedergaard, M.; Improved axonal regeneration after spinal cord injury in mice with conditional deletion of ephrin B2 under the GFAP promoter. *Neuroscience*. 2013, 241:89-99.
9. **Ren, Z.**, Iliff, J., Yang, L.; Yang, J.; Chen, X., Chen, M., Giese, R., Wang, B., Shi, X., Nedergaard, M.; ‘Hit & Run’ model of closed-skull traumatic brain injury (TBI) reveals complex patterns of post-traumatic AQP4 dysregulation. *Journal of Cerebral Blood Flow & Metabolism*. 2013, 33(6):834-45
10. Takano, T., Chen, X., Luo, F., Fujita, T., **Ren, Z.**, Goldman, N., Zhao, Y., Nedergaard, M.; Traditional acupuncture triggers a local increase in adenosine in human subjects. *Journal of Pain*. 2012, 13(12): 1215-1223
11. **Ren, Z.**, Jimenez, L., Jackson, E. H., Wainer, B., Gross, RE.; Expression of Competent Semaphoring Receptors in the Developing and Adult Nigrostriatal Pathway. *Experimental Neurology*. 2004, 187(1): 217
12. Sedý, J., Szeder, V., Walro, J., **Ren, Z.**, Nanka, O., Tessarollo, L., Sieber-Blum, M., Grim, M., Kucera, J.; Pacinian corpuscle development involves multiple Trk signaling pathways. *Developmental Dynamics*. 2004, 231:551
13. **Ren, Z.**, Porzgen, PP., Youn, YH. and Sieber-Blum, M.; Ubiquitous Embryonic Expression of the Norepinephrine Transporter. *Developmental Neuroscience*. 2003 Jan-Feb; 25(1): 1-13.
14. **Ren Z.**, Yao, Q. and Chen, C.; HIV-1 Envelope Glycoprotein 120 Increases Intercellular Adhesion Molecule-1 Expression by Human Endothelial Cells. *Laboratory Investigation*. 2002 Mar; 82(3): 245-55.
15. Chen, C., Conklin, BS., **Ren, Z.** and Zhong, DS.; Homocysteine Decreases Endothelium-Dependent Vasorelaxation in Porcine Arteries. *Journal of Surgical Research*. 2002 Jan; 102(1): 22-30.
16. Conklin, BS., Surowiec, SM., **Ren, Z.**, Li, J., Zhong, D., Lumsden, AB. and Chen, C.; The Effects of Nicotine and Cotinine on Porcine Arterial Endothelial Cell Function. *Journal of Surgical Research*. 95(1): 23-31, 2001.
17. **Ren, Z.**, Porzgen, P., Zhang, J., Chen, X., Amara, SG., Blakely, RD. and Sieber-Blum, M.; Autocrine Regulation of Norepinephrine Transporter Expression. *Molecular and Cellular Neuroscience*. 17(3): 539-50, 2001.
18. Sieber-Blum, M. and **Ren, Z.**; Norepinephrine Transporter Expression and Function in Noradrenergic Cell Differentiation. *Molecular and Cellular Biochemistry*. 212:61-70, 2000.
19. Zhao, J., Sun, Y. and **Ren, Z.**; Pathological Changes of Aging Brain by Electromicroscope. *Chinese Journal of Neurosurgery*. 14(2): 101-4, 1998.
20. **Ren, Z.** and Wu, J.; The Principle of Gene Therapy on Central Nervous System (Review). *Foreign Medical Science: Neurology and Neurosurgery Section*. 24(5): 238-240, 1997.
21. **Ren, Z.** and Wu, J.; Gene Therapy of Brain Tumors (Review). *Chinese Journal of Neurosurgery*. 11(5): 307-9, 1995.

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## Zeguang Ren, MD. PhD.

22. Ren, Z., Wu, J. and Yin, K.; The Changes of Brain Edema, rCBF and Free Radical after Intracerebral Hemorrhage in Rat. *Chinese Journal of Neurosurgery*. 11(4): 209-12, 1995.
23. Fu, Z., Ren, Z. and Chen, Y.; Tentorial Meningiomas—66 Cases Report. *Chinese Journal of Neurosurgery*. 11(2):111-2, 1995.
24. Wu, J. and Ren, Z.; Study of Experimental Cerebral Hemorrhage. *Basic Medical Sciences and Clinics*. 14(1): 1-4, 1994.
25. Ren, Z. and Wu, J.; A Rat Model of Intracerebral Hemorrhage. *Chinese Journal of Neurosurgery*. 9(4): 205-7, 1993.
26. Wu, J. and Ren, Z.; Brain Microdialysis Technique and Its Applications. *Newsletter of Neurochemistry*. 5(3): 131-4, 1992.

Book chapters:

*Handbook on Neurotrauma—126 Topics* (ISBN 7-5080-0524-4), Zhao JZ, Ren Z, et al. Huaxia Publishing House, 1995.

### Memberships in Professional and Scientific Societies:

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American Association of Neurological Surgeons

Congress of Neurological Surgeons

### Awards and Honors:

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| 2009    | “NREF/DePuy Spine research Fellow”. American Association of Neurological Surgeons (AANS)            |
| 2004    | “Student Travel Award”, American Society for Neural Transplantation and Repair (ASNTR)              |
| 1996    | “Scientific Achievement Award”, Ministry of Health of China   |
| 1996    | “Outstanding Youth Researcher”, Beijing Youth League and Beijing Municipal Bureau of Health jointly |
| 1996    | “Scientific Achievement Award”, Bureau of Health of Beijing   |
| 1994    | “Outstanding Employee”, Capital University of Medical Science                                       |
| 1983-86 | “Honor Student”, Hebei Medical University (four consecutive years)                                  |

### Research – Completed

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- 2010 to 2014; **Role of EphrinB2 on astrocytes in the spinal cord injury repair in mice**. University of Rochester, New York.
- 2010 to 2014; **New traumatic brain injury model in mice**. University of Rochester, New York.
- 2010 to 2014; **Multimodal CT Perfusion Changes in Seizures**. University of Rochester, New York.

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## Zeguang Ren, MD. PhD.

- 2010 to 2014; **Minimally invasive, reproducible large animal stroke model** – development and longitudinal characterization of perfusion imaging findings. University of Rochester, New York.
- 2003-2005; **Axon Guidance molecules and nigrostriatal pathway development.** Department of Neurosurgery, Laboratory for Neural Repair. Emory University, Atlanta, Georgia.
- 2000-2003; **The effect of the human immunodeficiency virus gp120 glycoprotein on gene expression and function of endothelial cell.** Department of Surgery, Vascular Research Lab., Emory University, Atlanta, Georgia.
- 1998-1999; **The effect of growth factors on differentiation of neural crest stem cells.** Department of Cell Biology, Neurobiology & Anatomy, Medical College of Wisconsin, Milwaukee, Wisconsin
- 1990-1993; **Hemorrhagic stroke model and brain edema,** Beijing Neurosurgical Institute & Beijing Tiantan Hospital, Capital University of Medical Science.