

CURRICULUM VITAE
Xiang Zeng



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Present Address: Department of Histology and Embryology, Zhongshan School of Medicine, Sun Yat-sen University, #74, Zhongshan 2nd Road, Guangzhou, Guangdong Province, P.R.China. 510080.

Education:

Graduate: 2006-2011, PhD, M.D. with Professor Yuanshan Zeng, Center for Stem Cell Biology and Tissue Engineering, Zhongshan School of Medicine, Sun Yat-sen University, P.R.C.

Undergraduate: 2001-2006, Bachelor of Medicine, Clinical Medicine, Wuhan University of Science and Technology, P.R.C.

Work Experience:

2016.8- present: Research Professor, Department of Histology and Embryology, Zhongshan School of Medicine, Sun Yat-sen University.

2015- 2016: Research Associate, P.A.I.N. Research Group, Department of Anesthesia, Boston Children's Hospital, Boston, MA.

2012- 2016: Research Fellow, Laboratory of Spinal Cord Injury and Stem Cell Biology, VA Boston Healthcare System, Boston, MA.

2012-2016: Postdoctoral Fellow, Division of SCI and Stem Cell Research, Department of Neurosurgery, Brigham and Women's Hospital, Harvard Medical School.

Honor and Awards:

1. Stem Cell Based Tissue Engineering in Traumatic Spinal Cord Injury Treatment, Best Research Award, South China Anatomy Association Annual Meeting (2010, Boao, China);
2. Stem Cell Based Glioma Therapy, Mayfield Award, AANS&CNS (2014);
3. Carbon Monoxide in Acute Spinal Cord Injury Treatment, Traveling Award, ASNTR (2014)
4. GV-Electroacupuncture Combined with MSCs Treatment for Spinal Cord Injury Repair, Guangdong Provincial Science and Technology Award, Second Prize, 2017.

Peer review journal service:

Editorial Board Member and reviewer for Tissue Science and Engineering, JSM-Spine;

Reviewer for Biomaterials, Scientific Reports, Stem Cell International, Journal of Biotechnology & Biomaterials, Histology and Histopathology, and Cellular Physiology and Biochemistry

Selected Publications:

1. Kumar H, Choi H, Jo MJ, Joshi HP, Muttigi M, Bonanomi D, Kim SB, Ban E, Kim A, Lee SH, Kim KT, Sohn S, **Zeng X#**, Han I#. Neutrophil elastase inhibition effectively rescued angiopoietin-1 decrease and inhibits glial scar after spinal cord injury. *Acta Neuropathologica Communications*. 2018 Aug 7;6(1):73. doi: 10.1186/s40478-018-0576-3. (**#Corresponding Author**)
2. Wu GH, Shi HJ, Che MT, Huang MY, Wei QS, Feng B, Ma YH, Wang LJ, Jiang B, Wang YQ, Han I, Ling EA, **Zeng X#**, Zeng YS#. Recovery of paralyzed limb motor function in canine with complete spinal cord injury following implantation of MSC-derived neural network tissue. *Biomaterials*, 2018 Jul 17;181:15-34. doi: 10.1016 (**#Corresponding Author**)
3. Lai BQ, Feng B, Che MT, Wang LJ, Cai S, Huang MY, Gu HY, Jiang B, Ling EA, Li M, **Zeng X#**, Zeng YS# A modular assembly of spinal cord-like tissue endows targeted tissue repair in the transected spinal cord. *Advanced Science*, 2018, doi:10.1002/advs.201800261 (**#Corresponding Author**)

4. Jo M-J, Kumar H, Joshi HP, Choi H, Ko W-K, Kim JM, Hwang SSS, Park SY, Sohn S, Bello AB, Kim K-T, Lee S-H, **Zeng X#**, Han I# Oral Administration of α -Asarone Promotes Functional Recovery in Rats With Spinal Cord Injury. *Front. Pharmacol.* (2018) 9:445. doi: 10.3389/fphar.2018.00445. (**#Corresponding Author**)
5. Hemant Kumar, Soo-Hong Lee, Kyoung-Tae Kim, **Xiang Zeng#**, Inbo Han#. TRPV4: A Sensor for Homeostasis and Pathological Events in the CNS. *Mol Neurobiol*, 2018 Mar 26. Review. (**#Corresponding Author**)
6. Ma YH, **Zeng X#**, Qiu XC, Wei QS, Che MT, Ding Y, Liu Z, Wu GH, Sun JH, Pang M, Rong LM, Liu B, Aljuboori Z, Han I, Ling EA, Zeng YS#. Perineurium-like sheath derived from long-term surviving mesenchymal stem cells confers nerve protection to the injured spinal cord. *Biomaterials*. 2018 Apr; 160:37-55. (**#Corresponding Author**)
7. Glaser T, Han I, Wu L, **Zeng X#**. Targeted Nanotechnology in Glioblastoma Multiforme. *Front Pharmacol*. 2017 Mar 31;8:166. doi: 10.3389/fphar.2017.00166. eCollection 2017. Review. (**#Corresponding Author**)
8. **Zeng X**, Han I, Abd-El-Barr M, Aljuboori Z, Anderson JE, Chi JH, Zafonte RD, Teng YD. The Effects of Thermal Precondition on Oncogenic and Intraspinal Cord Growth Features of Human Glioma Cells. *Cell Transplant*. 2016 Dec 13;25(12):2099-2109.
9. **Zeng X**, Ma YH, Chen YF, Qiu XC, Wu JL, Ling EA, Zeng YS. Autocrine fibronectin from differentiating mesenchymal stem cells induces the neurite elongation in vitro and promotes nerve fiber regeneration in transected spinal cord injury. *J Biomed Mater Res A*. 2016 Aug;104(8):1902-11.
10. **Zeng X**, Qiu XC, Ma YH, Duan JJ, Chen YF, Gu HY, Wang JM, Ling EA, Wu JL, Wu WT, Zeng YS. Integration of neural network derived from donor mesenchymal stem cells into host neural network after rat spinal transection. *Biomaterials*. 2015 Jun;53:184-2012.
11. **Zeng X**, Zeng YS, Ma YH, Lu LY, Du BL, Zhang W, Li Y, Chan WY. Bone Marrow Mesenchymal Stem Cells in a Three Dimensional Gelatin Sponge Scaffold Attenuate Inflammation, Promote Angiogenesis and Reduce Cavity Formation in Experimental Spinal Cord Injury. *Cell Transplant*. 2011 Mar 7. [Epub ahead of print]

Book Chapters:

1. Teng YD, Wang L, **Zeng X**, Wu L, Toktas Z, Kabatas S, Zafonte RD. Updates on Human Neural Stem Cells: From Generation, Maintenance, and Differentiation to Applications in Spinal Cord Injury Research. *Results Probl Cell Differ*. 2018; 66:233-248.
2. Teng YD, Snyder EY, **Zeng X**, Anderson JE, and Han IB. *Stem Cell Technologies in Neuroscience* (Eds: A.K. Srivastava, E.Y. Snyder, and Y.D. Teng). Springer, San Diego, USA. *Multimodal Neural Stem Cell Research Protocols for Experimental Spinal Cord Injuries*. 2017.
3. Teng YD, **Zeng X**, Han I, Anderson JE. *Working with Stem Cells - Methodologies and Applications* (Ulrich H and Negraes PD, Editors) Springer International Publishing, AG Switzerland. Chapter 18: Neural Stem Cells: Functional Multipotency and Spinal Cord Injury Research Protocols. pp. 311-329. 2016.