
BIOGRAPHICAL SKETCH

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NAME Zhou, Fengquan	POSITION TITLE		
eRA COMMONS USER NAME fzhou4	Assistant professor of Orthopedic Surgery & Neuroscience		
EDUCATION/TRAINING (<i>Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.</i>)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Nanjing University, Nanjing, China	B.S.	1988-1992	Biochemistry
Nanjing University, Nanjing, China	M.S.	1992-1995	Biochemistry
State University of New York at Buffalo, NY	Ph.D.	1996-2001	Cell Biology
University of North Carolina at Chapel Hill, NC	Postdoctoral fellow	2001-2005	Neuroscience

Please refer to the application instructions in order to complete sections A, B, and C of the Biographical Sketch.

A. Positions and Honors.

Positions and Employment

08/1996-02/2001 Graduate student research assistant, SUNY at Buffalo
03/2001-08/2005 Postdoctoral fellow, Neuroscience Center, UNC at Chapel Hill
09/2005- present Assistant Professor, Departments of Orthopedic Surgery and Neuroscience, Johns Hopkins University School of Medicine

Honors and Awards

1999 Pre-doctoral Travel award, *American Society for Cell Biology*
1999–2000 Mark Diamond Graduate Student Research Award, *SUNY at Buffalo*
2001 Honorable Mention, Dean's award for outstanding dissertation research, *SUNY at Buffalo*
2003-2005 Postdoctoral fellowship, *Spinal Cord Research Foundation, Paralyzed Veterans of America*
2006-2009 Research Grant Award, *Whitehall Foundation*
2007-2009 Basil O'Connor Starter Scholar Research Award, *March of Dimes Birth Defect Foundation*
2007-2009 Research Grant Award, *Christopher and Dana Reeve Foundation*
2008-2010 Young Investigator Award, *NARSAD - The Mental Health Research Association*

Other professional activities

Memberships: American Society for Cell Biology (1998-); Society for Neuroscience (2001-)
Reviewer: FASEB J, Journal of Neurobiology, J Neurosci Res., Neural Development,

B. Selected peer-reviewed publications (in chronological order).

1. **Zhou F-Q** and Cohan CS. (2001) Growth cone collapse through coincident loss of actin bundles and leading edge actin without actin depolymerization. *Journal of Cell Biology*, 153 (5): 1071-1084.
2. **Zhou F-Q**, Waterman-Storer CM, and Cohan CS. (2002) Focal loss of actin bundles causes microtubule redistribution and growth cone turning. *Journal of Cell Biology*, 157 (5): 839-849. (*Cover image and highlighted article; a 'must read' article by Facultyof1000*)
3. Sinder WD, **Zhou F-Q**, Zhong J, and Markus A. (2002) Signaling the pathway to regeneration. *Neuron*, 35 (1): 13-16. (*Review*)
4. Cohan CS, Karnes JL, and **Zhou F-Q**. (2003) Culturing Neurons from the Snail *Helisoma*. *Methods in Cell Biology*, 71: 157-170.

5. **Zhou F-Q**, Zhong J, and Snider WD. (2003) Extracellular crosstalk: when GDNF meets N-CAM. *Cell*, 113 (7): 814-815. (Review)
6. **Zhou F-Q** and Cohan CS. (2004) How actin filaments and microtubules steer growth cones to their targets. *Journal of Neurobiology*, 58(1): 84-91. (Review)
7. **Zhou F-Q**, Zhou J, Dedhar S, Wu Y-H, and Snider WD. (2004) NGF-induced axon growth is mediated by localized inactivation of GSK-3 β and functions of the microtubule plus end binding protein, APC. *Neuron*, 42(6): 897-912. (Highlighted article with preview; a 'Must read' article by Facultyof1000)
8. **Zhou F-Q**, Walzer MA and Snider WD. (2004) Turning on the machine: genetic control of axon regeneration by c-Jun. *Neuron*, 43(1):1-2. (Review)
9. **Zhou F-Q** and Snider WD. (2005) GSK-3 β and microtubule assembly in axons. *Science*, 308: 211-214. (Review)
10. **Zhou F-Q**, Walzer MA, Wu Y-H, Zhou J, Dedhar S, and Snider WD. (2006) Neurotrophins support regenerative axon assembly over CSPGs by an ECM-integrin independent mechanism. *Journal of Cell Science*, 119 (13): 2787-2796. (Cover image)
11. **Zhou F-Q** and Snider WD. (2006) Intracellular control of developmental and regenerative axon growth. *Phil. Trans. R. Soc B*, 361(1473): 1575-92. (Review)
12. Kim W-Y, **Zhou F-Q**, Zhou J, Wang Y-M, Yoshimura T, Kaibuchi K, Woodgett J, and Snider WD. (2006) Essential roles for GSK-3s and GSK-3 primed substrates in neurotrophin-induced and hippocampal axon growth. *Neuron*, 52(6): 981-996
13. Kim W-Y, **Zhou F-Q**, Shoemaker S, Patel TD, Kessler JA, and Snider WD. (2008) BMP4 inhibits adult sensory axon growth: evidence for a target-derived "stop" signal (*in revision*)
14. Dill J, Wang H, **Zhou F-Q** and Li S. (2008) Inactivation of Glycogen Synthase Kinase 3 promotes axonal growth and recovery in the CNS (*submitted*)
15. Hur E-M, Xu W-L, Saijilafu, Skelton SL, Perry T, and **Zhou F-Q*** (2008) Microtubule plus ends binding protein CLASP plays dual roles in regulation of axon growth. (*to be submitted soon*)
16. Hur E-M, Xu W-L, Saijilafu, and **Zhou F-Q*** (2008) Inhibition of non-muscle myosin II promotes axon regeneration over inhibitory substrates (*to be submitted*)

C. Research support

Current

1. **Whitehall Foundation Research Grant (2006-0537APL3)** - Principle Investigator
2. **Basil O'Connor Starter Scholar Research Award 2007 Program (5-FY2007-89)** - Principle Investigator
3. **Christopher and Dana Reeve Foundation (#ZB1-0703-2)** - Principle Investigator
4. **Miriam and Sheldon Adelson Medical Research Foundation** - Co-investigator with Dr. John Griffin (PI)
5. **NARSAD Young Investigator Award** – Principle Investigator

Completed

1. **SCRF#2272**
Spinal Cord Research Foundation - Principle Investigator