BIOGRAPHICAL SKETCH

Provide the following information for all key personnel.
DO NOT EXCEED TWO PAGES FOR EACH BIOSKETCH.

NAME	**POSITION TITLE**
Fengquan Zhou	Associate professor

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)*

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

A. Positions and Honors.

Positions and Employment

08/1996-02/2001 Graduate student research assistant, SUNY at Buffalo
03/2001-11/2005 Postdoctoral fellow, Neuroscience Center, UNC at Chapel Hill
12/2005- 03/2012 Assistant Professor, Departments of Orthopaedic Surgery and The Solomon H. Snyder Department of Neuroscience, Johns Hopkins University School of Medicine
04/2012- Associate Professor, Departments of Orthopaedic Surgery and The Solomon H. Snyder Department of 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, *Paralyzed Veterans of America (PVA) Research Foundation*
2006-2009 Research Grant Award, *Whitehall Foundation*
2007-2009 Basil O'Connor Starter Scholar Research Award, *March of Dimes Birth Defect Foundation*
2007-2008 Research Grant Award, *Christopher and Dana Reeve Foundation*
2008-2010 Young Investigator Award, *NARSAD - The Mental Health Research Association*
2010-2012 New Investigator Research Award, *Alzheimer's Association*
2011-2013 Research Grant Award, *The Graig H. Neilsen Foundation*

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

Publications prior to 2006 as student or postdoctoral fellow

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.

4. Zhou F-Q, Zhong J, and Snider WD. (2003) Extracellular crosstalk: when GDNF meets N-CAM. ***Cell***, 113 (7): 814-815.

5. 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.

6. 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-3β 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)*

7. 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.

9. Zhou F-Q and Snider WD. (2005) GSK-3β and microtubule assembly in axons. ***Science,*** 308: 211-214.

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.

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

Publications after 2006 as principle investigator

13. 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 ***Journal of Neuroscience,*** 28(36):8914-28. (Highlighted by *Science-Business exchange-SciBX)*

14. Hur E-M and Zhou F-Q* (2010) GSK3 signaling in neural development. ***Nature Reviews Neuroscience,*** 11 (8). *(featured article)*

15. Hur E-M, Kim D, Yang I-H, Byun J, Xu W-L, Saijilafu, Nicovich PR, Cheong R, Levchenko A, Thakor N, and Zhou F-Q*. (2011) Engineering neuronal growth cones to promote axon growth over inhibitory molecules ***PNAS***, 108(12):5057-62.

16. Hur E-M, Saijilafu, Lee BJ, Kim SJ, Xu W-L, and Zhou F-Q* (2011) GSK3 controls axon growth via CLASP-mediated regulation of growth cone microtubules. ***Genes & Development*** *(in press)*

17. Saijilafu and Zhou F-Q* (2011) Genetic dissection of axon regeneration via in vivo electroporation of mouse adult sensory neurons. ***Nature Communications,*** 2:543.

18. Hur E-M, Saijilafu, and Zhou F-Q* (2011) Growing the growth cone: remoldeling the cytoskeleton to promote axon regeneration. ***Trends in Neurosciences***, 35 (3). (cover featured article)

19. Kim Y-T, Hur E-M, Snider WD and Zhou F-Q*. (2011) GSK3 signalling in neuronal morphogenesis. ***Frontiers in Molecular Neuroscience,*** 4:48.

20. Liu C-M and Zhou F-Q* (2012) Coordinating gene expression and axon assembly to control axon growth: potential role of GSK3 signaling. ***Frontiers in Molecular Neuroscience,*** 5:3.

21. Saijilafu and Zhou F-Q* (2012) Genetic study of axon regeneration with cultured adult dorsal root ganglion neurons. ***Journal of Visualized Experiments (JoVE),*** (66): e4141.

22. Byun J, Kim BT, Kim YT, Hur E-M*, and Zhou F-Q* (2012) Slit2 inactivates GSK3beta to signal neurite outgrowth inhibition. ***PLoS One*** (pending minor revision)

23. Saijilafu, Hur E-M, Liu C-M, Xu W-L, and Zhou F-Q* (2012) PI3K-GSK3 pathway regulates mammalian axon regeneration by induction of Smad1 *(submitted)*

24. Liu C-M, Wang R-Y, Saijilafu, and Zhou F-Q* (2012) A mutual negative feedback loop of microRNA-138 and Sirt1 regulates axon regeneration (*submitted*)

25. Saijilafu, Zhang B-Y, and Zhou F-Q* (2013) Signaling pathways regulating axon regeneration. ***Neurosci. Bull.*** *(invited review)*

** Corresponding author*