

**CURRICULUM VITAE**  
**Binhai Zheng, Ph.D.**  
Associate Professor  
Department of Neurosciences  
University of California San Diego

**Contact Information**

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**Education**

1988 – 1992 B.S. equivalent, Genetics and Genetic Engineering, Fudan University, Shanghai, China  
1992 – 1994 M.S., Biology, University of Kentucky, Lexington, Kentucky. Thesis Advisor: Dr. Brian Rymond  
1994 – 1999 Ph.D., Department of Molecular and Human Genetics, Baylor College of Medicine, Houston, Texas. Thesis projects: 1) Chromosome engineering; 2) Functional analysis of the mammalian circadian clock. Dissertation advisor: Dr. Allan Bradley

**Postdoctoral Training**

2000 – 2004 University of California San Francisco (00 - 01); Stanford University (01 - 03); Genentech, Inc. (03-04). Research Projects: Nogo and NgR in corticospinal axon regeneration.  
Postdoctoral mentor: Dr. Marc Tessier-Lavigne

**Academic Appointment**

2005 – 2010 Assistant Professor, Department of Neurosciences, University of California San Diego  
2010 – present Associate Professor, Department of Neurosciences, University of California San Diego

**Awards and Honors**

1988 – 1991 University Scholarships, Fudan University  
1994 – 1996 Cullen Foundation Predoctoral Fellowship, Baylor College of Medicine  
1998 Outstanding Student Presentation Award, Department of Molecular and Human Genetics Annual Retreat; Selected for platform presentation at the Annual Graduate Student Symposium, Baylor College of Medicine  
2001 – 2004 Helen Hay Whitney Foundation Postdoctoral Fellowship

**Publications**

Research Articles:

1. Roy, J., Zheng, B., Rymond, B. C., and Woolford, J. L., Jr. (1995). Structurally related but functionally distinct yeast Sm D core small nuclear ribonucleoprotein particle proteins. **Mol. Cell. Biol.** 15, 445-55.
2. Prolla, T. A., Baker, S. M., Harris, A. C., Tsao, J. L., Yao, X., Bronner, C. E., Zheng, B., Gordon, M., Reneker, J., Arnheim, N., Shibata, D., Bradley, A., and Liskay, R. M. (1998). Tumour susceptibility and spontaneous mutation in mice deficient in *Mlh1*, *Pms1* and *Pms2* DNA mismatch repair. **Nature Genetics** 18, 276-9.
3. Seipelt, R. L., Zheng, B., Asuru, A., and Rymond, B. C. (1999). U1 snRNA is cleaved by RNase III and processed through an Sm site-dependent pathway. **Nucleic Acids Res.** 27, 587-95.
4. Mills, A. A., Zheng, B., Wang, X. J., Vogel, H., Roop, D. R., and Bradley, A. (1999). *p63* is a *p53* homologue required for limb and epidermal morphogenesis. **Nature** 398, 708-13.
5. Zheng, B., Mills, A. A., and Bradley, A. (1999). A system for rapid generation of coat color-tagged knockouts and defined chromosomal rearrangements in mice. **Nucleic Acids Res.** 27, 2354-60.
6. Zheng, B., Larkin, D. W., Albrecht, U., Sun, Z. S., Sage, M., Eichele, G., Lee, C. C., and Bradley, A. (1999). The *mPer2* gene encodes a functional component of the mammalian circadian clock. **Nature** 400,

169-73.

7. Zheng, B., Sage, M., Cai, W. W., Thompson, D. M., Tavsanlı, B. C., Cheah, Y. C., and Bradley, A. (1999). Engineering a mouse balancer chromosome. **Nature Genetics** 22, 375-8.
8. Zheng, B., Sage, M., Sheppard, E. A., Jurecic, V., and Bradley, A. (2000). Engineering mouse chromosomes with *Cre-loxP*: range, efficiency, and somatic applications. **Mol. Cell. Biol.** 20, 648-55.
9. Shearman, L. P., Sriram, S., Weaver, D. R., Maywood, E. S., Chaves, I., Zheng, B., Kume, K., Lee, C. C., van der Horst, G. T., Hastings, M. H., and Reppert, S. M. (2000). Interacting molecular loops in the mammalian circadian clock. **Science** 288, 1013-9.
10. Albrecht, U., Zheng, B., Larkin, D., Sun, Z. S., and Lee, C. C. (2001). *mPer1* and *mPer2* are essential for normal resetting of the circadian clock. **J. Biol. Rhythms** 16, 100-4.
11. Zheng, B., Albrecht, U., Kaasik, K., Sage, M., Lu, W., Vaishnav, S., Li, Q., Sun, Z. S., Eichele, G., Bradley, A., and Lee, C. C. (2001). Nonredundant roles of the *mPer1* and *mPer2* genes in the mammalian circadian clock. **Cell** 105, 683-94.
12. Cleary, M. A., van Raamsdonk, C. D., Levorse, J., Zheng, B., Bradley, A., and Tilghman, S. M. (2001). Disruption of an imprinted gene cluster by a targeted chromosomal translocation in mice. **Nature Genetics** 29, 78-82.
13. Kopp, C., Albrecht, U., Zheng, B., and Tobler, I. (2002). Homeostatic sleep regulation is preserved in *mPer1* and *mPer2* mutant mice. **Eur. J. Neurosci.** 16, 1099-106.
14. Zheng, B., Vogel, H., Donehower, L. A., and Bradley, A. (2002). Visual genotyping of a coat color tagged p53 mutant mouse line. **Cancer Biol. Ther.** 1, 433-5.
15. Zheng, B., Ho, C., Li, S., Keirstead, H., Steward, O., and Tessier-Lavigne, M. (2003). Lack of enhanced spinal regeneration in Nogo-deficient mice. **Neuron** 38, 213-24.
16. Steward, O., Zheng, B., Ho, C., Anderson, K., and Tessier-Lavigne, M. (2004). The dorsolateral corticospinal tract in mice: an alternative route for corticospinal input to caudal segments following dorsal column lesions. **J. Comp. Neurol.** 472, 463-77.
17. Karnezis, T., Mandemakers, W., McQualter, J. L., Zheng, B., Ho., P. P., Jordan, K. A., Murray, B. M., Barres, B., Tessier-Lavigne, M., Bernard, C. C. (2004). The neurite outgrowth inhibitor Nogo A is involved in autoimmune-mediated demyelination. **Nature Neurosci.** 7, 736-44.
18. Fontoura, P., Ho, P. P., DeVoss, J., Zheng, B., Lee, B. J., Kidd, B. A., Garren, H., Sobel, R. A., Robinson, W. H., Tessier-Lavigne, M., Steinman, L. (2004). Immunity to the extracellular domain of Nogo-A modulates experimental autoimmune encephalomyelitis. **J. Immunol.** 173, 6981-92.
19. Zheng, B.\*, Atwal, J.\*, Ho, C., Case, L., He, X. L., Garcia, K. C., Steward, O., and Tessier-Lavigne, M. (2005). Genetic deletion of Nogo Receptor does not reduce neurite inhibition in vitro or promote corticospinal tract regeneration in vivo. **Proc. Natl. Acad. Sci. USA.** 102, 1205-10. \*Equal contributors.
20. Mingorance-Le Meur, A., Zheng, B., Soriano, E., and Del Rio, J. A. (2007). Involvement of the Myelin-Associated Inhibitor Nogo-A in Early Cortical Development and Neuronal Maturation. **Cereb. Cortex** 17, 2375-86.
21. Steward, O., Zheng, B., Banos, K., and Yee, K. M. (2007). Response to: Kim et al., "Axon Regeneration in Young Adult Mice Lacking Nogo-A/B." **Neuron** 54, 191-5.
22. Schachtrup, C., Lu, P., Jones, L. L., Lee, J. K., Lu, J., Sachs, B. D., Zheng, B. and Akassoglou, K. (2007). Fibrinogen inhibits neurite outgrowth via  $\beta 3$  integrin-mediated phosphorylation of the EGF receptor. **Proc. Natl. Acad. Sci. USA.** 104, 11814-9.
23. Davalos, D.\*, Lee, J. K.\*, Smith, W. B., Brinkman, B., Ellisman, M. H., Zheng, B., and Akassoglou, K. (2008). Stable in vivo imaging of densely populated glia, axons and blood vessels in the mouse spinal cord using two-photon microscopy. **J Neurosci Methods** 169, 1-7. \*Equal contributors.
24. Steward, O., Zheng, B., Tessier-Lavigne, M., Hofstadter, M., Sharp, K., Yee, K.M. (2008). Regenerative growth of corticospinal tract axons via the ventral column after spinal cord injury in mice. **J. Neurosci.** 28, 6836-47.
25. Ruby, K. M, and Zheng, B. (2009). Gene targeting in a HUES line of human embryonic stem cells via electroporation. **Stem Cells** 27, 1496-506.
26. Lee, J. K, Chan, A. F., Luu, S. M., Zhu, Y, Ho, C., Tessier-Lavigne, M., and Zheng, B. (2009). Reassessment of corticospinal tract regeneration in Nogo deficient mice. **J. Neurosci.** 29, 8649-54.
27. Lee, J. K.\*, Case, L. C.\*, Chan, A. F., Zhu, Y., Tessier-Lavigne, M., and Zheng, B. (2009). Generation of an OMgp allelic series in mice. **Genesis** 47, 751-6. \*Equal contributors.
28. Gil, V., Bichler, Z., Lee, J.K., Seira, O., Llorens, F., Bribian, A., Morales, R., Claverol-Tinture, E., Soriano,

- E., Sumoy, L., Zheng, B., Del Río, J.A. (2009). Developmental Expression of the Oligodendrocyte Myelin Glycoprotein in the Mouse Telencephalon. **Cereb. Cortex** 20, 1769-79.
29. Herrmann, J. E., Pence, M. A., Shapera, E. A., Shah, R. R., Geoffroy, C. G., and Zheng, B. (2010). Generation of an *EphA4* conditional allele in mice. **Genesis** 48, 101-5.
30. Herrmann, J. E., Shah, R. R., Chan, A. F., and Zheng, B. (2010). EphA4 deficient mice maintain astroglial-fibrotic scar formation after spinal cord injury. **Exp. Neurol.** 223, 582-98.
31. Masliah, E., Xie, F., Dayan, S., Rockenstein, E., Mante, M., Adame, A., Patrick, C. M., Chan, A. F., Zheng, B. (2010). Genetic deletion of Nogo/Rtn4 ameliorates behavioral and neuropathological outcomes in amyloid precursor protein transgenic mice. **Neuroscience** 169, 488-94.
32. Hollis, E. R. 2nd, Jamshidi, P., Lorenzana, A. O., Lee, J. K., Gray, S. J., Samulski, R. J., Zheng, B., Tuszynski, M. H. (2010). Transient demyelination increases the efficiency of retrograde AAV transduction. **Mol. Ther.** 18, 1496-1500.
33. Lee, J. K., Geoffroy, C. G., Chan, A. F., Tolentino, K. E., Crawford, M. J., Leal, M. A., Kang, B., and Zheng, B. (2010). Assessing spinal axon regeneration and sprouting in Nogo-, MAG-, and OMgp-deficient mice. **Neuron** 66, 663-70.
34. Liu, K., Lu, Y., Lee, J. K., Samara, R., Willenberg, R., Sears-Kraxberger, I., Tedeschi, A., Park, K. K., Jin, D., Cai, B., Xu, B., Connolly, L., Steward, O., Zheng, B., and He, Z. (2010). PTEN deletion enhances the regenerative ability of adult corticospinal neurons. **Nature Neurosci.** 13, 1075-81.
35. Lee, J. K., Chow, R., Xie, F., Chow, S. Y., Tolentino, K. E., and Zheng, B. (2010). Combined genetic attenuation of myelin and Semaphorin-mediated growth inhibition is insufficient to promote serotonergic axon regeneration. **J. Neurosci.** 30, 10899-904.
36. Wang, L., Klein, R., Zheng, B., Marquardt, T. (2011). Anatomical Coupling of Sensory and Motor Nerve Trajectory via Axon Tracking. **Neuron** 71, 263-77.
37. Chong, S. Y., Rosenberg, S. S., Fancy, S. P., Zhao, C., Shen, Y. A., Hahn, A. T., McGee, A. W., Xu, X., Zheng, B., Zhang, L. I., Rowitch, D. H., Franklin, R. J., Lu, Q. R., Chan, J. R. (2011). Neurite outgrowth inhibitor Nogo-A establishes spatial segregation and extent of oligodendrocyte myelination. **Proc. Natl. Acad. Sci. USA.** Epub ahead of print.

#### Reviews:

1. Justice, M. J., Zheng, B., Woychik, R. P., and Bradley, A. (1997). Using targeted large deletions and high-efficiency N-ethyl-N-nitrosourea mutagenesis for functional analyses of the mammalian genome. **Methods** 13, 423-36.
2. Bradley, A., Zheng, B., and Liu, P. (1998). Thirteen years of manipulating the mouse genome: a personal history. **Int. J. Dev. Biol.** 42, 943-50.
3. Justice, M. J., Noveroske, J. K., Weber, J. S., Zheng, B., and Bradley, A. (1999). Mouse ENU mutagenesis. **Hum. Mol. Genet.** 8, 1955-63.
4. Zheng, B., Mills, A. A., and Bradley, A. (2001). Introducing defined chromosomal rearrangements into the mouse genome. **Methods** 24, 81-94.
5. Steward, O., Zheng, B., and Tessier-Lavigne, M. (2003). False resurrections: distinguishing regenerated from spared axons in the injured central nervous system. **J. Comp. Neurol.** 459, 1-8.
6. Anderson, D. K., Beattie, M., Blesch, A., Bresnahan, J., Bunge, M., Dietrich, D., Dietz, V., Dobkin, B., Fawcett, J., Fehlings, M., Fischer, I., Grossman, R., Guest, J., Hagg, T., Hall, E. D., Houle, J., Kleitman, N., McDonald, J., Murray, M., Privat, A., Reier, P., Steeves, J., Steward, O., Tetzlaff, W., Tuszynski, M. H., Waxman, S. G., Whittemore, S., Wolpaw, J., Young, W., and Zheng, B. (2005). Recommended guidelines for studies of human subjects with spinal cord injury. **Spinal Cord** 43, 453-8.
7. Zheng, B., Lee, J. K., and Xie, F. (2006). Genetic mouse models for studying inhibitors of spinal axon regeneration. **Trends in Neurosci.** 29, 640-6.
8. Yaron, A., and Zheng, B. (2007). Navigating their way to the clinic: emerging roles for axon guidance molecules in neurological disorders and injury. **Dev. Neurobiol.** 67, 1216-31.
9. Xie, F., and Zheng, B. (2008). White matter inhibitors in CNS axon regeneration failure. **Exp. Neurol.** 209, 302-12.
10. Lee, J. K., and Zheng, B. (2008). Axon regeneration after spinal cord injury: insight from genetically modified mouse models. **Rest. Neurol. Neurosci.** 26, 175-82.
11. Lee, J. K. and Zheng, B. (2011). Role of myelin-associated inhibitors in axonal repair after spinal cord injury. **Exp. Neurol.** Epub ahead of print.

Invited Book Chapters:

1. Ruby, K. M. and Zheng, B. (2011). Genetic engineering of human embryonic stem cells: focusing on targeted modification. In *Stem Cell Bioengineering and Tissue Engineering Microenvironment*. S. Prakash and D. Shum-Tim, eds. pp. 231-251. World Scientific Publishing Company.
2. Zheng, B. and Fouad, K. Myelin-associated axon growth inhibitors. In *Textbook of Neural Repair & Rehabilitation*. M. Selzer, R. Miller, L. Cohen, S. Clarke, and G. Kwakkel, eds. Cambridge University Press (submitted).

**Research Support**

Current Research Support

R01 NS054734                      Zheng (PI)                      6/1/07 – 05/31/16  
NIH/NINDS

"Genetic analysis of myelin inhibitors and PTEN in injury-induced CNS axon growth"

This study aims to better understand the role of Nogo and OMgp in axon sprouting and to assess the combined effect of deleting Nogo and neuronal PTEN in the regeneration of corticospinal axons using pyramidotomy and spinal cord injury models respectively.

Role: PI

Basic Biology RB3-02143      Zheng (PI)                      07/01/11 – 06/30/14

California Institute for Regenerative Medicine (CIRM)

"Generation and characterization of corticospinal neurons from human embryonic stem cells"

This study aims to develop an efficient way to differentiate human embryonic stem cells into corticospinal motor neurons and study their cell fate determination

Role: PI

RR2012-13                      Zheng (PI)                      03/01/12 – 2/28/13

Roman Reed Spinal Cord Injury Research Fund of California

"Enhancing Axon Sprouting and Functional Recovery after Cervical Spinal Cord Injury in Mice"

This study aims to establish a cervical spinal cord injury model in my lab in order to study the molecular regulation and functional significance of axon sprouting in CNS repair

Role: PI

Completed Research Support (last 3 years)

RS1-00333-1                      Zheng (PI)                      7/1/07 – 6/30/09 (extended to 6/30/10)

California Institute for Regenerative Medicine (CIRM)

"Genetic manipulation of human embryonic stem cells and its application in studying CNS development and repair"

This study aims to establish genetic modification methods in a human embryonic stem cell line and to utilize genetically modified hESCs in transplantation studies to explore their developmental and therapeutic potential.

Role: PI

2006202                      Zheng (PI)                      1/1/07 – 12/31/09

Dana Foundation

"Seeing is Believing: Imaging Injured Spinal Axons with Two-Photon Microscopy"

This study aims to establish the technology of in vivo imaging with two-photon microscopy to analyze lesioned spinal axons after various genetic or pharmacological manipulations.

Role: PI

RR07-204                      Zheng (PI)                      1/1/08 – 12/31/08

Roman Reed Spinal Cord Injury Research Fund of California

"Role of EphA4 in Spinal Cord Injury and Axon Regeneration"

This study aims to examine the role of EphA4 in axon regeneration, recovery and repair after spinal cord injury by establishing and analyzing a conditional knockout model of EphA4.

Role: PI

STR097

Zheng (PI)

7/1/05 – 6/30/08

International Spinal Research Trust, London, UK

“Chemorepulsive axon guidance molecules in adult CNS axon regeneration failure: Class 3 semaphorins and their receptors”

This study aims to investigate the potential roles of class 3 semaphorins and their receptors neuropilins and plexins in CNS axon regeneration failure

Role: PI

### **Program affiliations at UCSD**

Member Biomedical Sciences Graduate Program  
Member Neurosciences Graduate Program  
Member UCSD Genetics Training Program  
Member Moores Cancer Center  
Mentor California Institute for Regenerative Medicine (CIRM) Interdisciplinary Stem Cell Training Program  
Mentor Neuroplasticity of Aging Training Program  
Mentor Initiative for Maximizing Student Diversity program

### **Trainees**

#### **Current trainees**

##### postdoctoral Fellows

2008 – Cédric Geoffroy, Ph.D., University of Cambridge, United Kingdom  
*The Craig H. Neilsen Foundation Postdoctoral Fellowship (2011-2013)*  
2008 – Sandra Klein, Ph.D., University of Wisconsin – Madison  
*Postdoctoral Trainee, CIRM Interdisciplinary Stem Cell Training Program at UCSD (2009-2011)*  
2012 – Two postdoctoral fellows are joining the lab: Oliver Tress (Bonn), Amy Chen (UCSD)

##### Ph.D. students

2008 – Ariana Lorenzana, the Biomedical Sciences Graduate Program (BMS)  
*NIH/NRSA Predoctoral Fellowship (2011-2013)*  
2009 – Anders Smith, the Biomedical Sciences Graduate Program (BMS)  
*Predoctoral Trainee, Neuroplasticity of Aging Training Program at UCSD (2011)*

#### **Past Trainees**

##### Postdoctoral Fellows

2005 – 2010 Jae K. Lee, Ph.D., Georgetown University  
*NIH/NRSA Postdoctoral Fellowship (2007-2010)*  
Current: Assistant Professor (tenure-track), The Miami Project to Cure Paralysis, University of Miami, Florida  
2005 – 2008 Fang Xie, Ph.D., Case Western Reserve University  
*Christopher and Dana Reeve Foundation Postdoctoral Fellowship (2007-2008)*  
Current: Research Associate, UCSD  
2007 – 2009 Julia E. Herrmann, Ph.D., University of California Los Angeles  
*Christopher and Dana Reeve Foundation Postdoctoral Fellowship (2007 - 2009)*  
Current: Scientist, Allergan Pharmaceuticals

##### Ph.D. Student

2006 – 2011 Katherine Ruby, the Biomedical Sciences Graduate Program  
*Predoctoral Trainee, CIRM Interdisciplinary Stem Cell Training Program at UCSD (2006-2008)*  
Current: Scientist, EMD Millipore/Merck

##### Master Student

9/06 – 7/07 Renee Chow, the BS/MS Program  
Current: Dental student, University of California San Francisco  
9/10 – 7/11 Jeffrey Kwan, the BS/MS Program  
Current: Staff Research Associate, University of California San Diego

### Rotation students

2005 – Mentored 17 rotation students (Biomedical Sciences, Neurosciences, Biology, Medical Scientist Training Program)

### Undergraduate students

2005 – Hosted 24 undergraduate student researchers in the lab

### **Classroom teaching**

2005 Participating faculty, Seminars in Biomedical Research (BIOM201)  
2006 – now Course co-director, Seminars in Molecular Cell Biology and Genetics (BIOM272A&274A)  
2006 – now Guest lecturer, Molecular and Cellular Neurobiology (NEU268)  
2007 Course co-director, Animal Models of Degeneration and Regeneration in the CNS (NEU221)  
2008 – 2010 Guest lecturer, Diseases of the Nervous System (BIPN150)  
2008 Guest Lecturer, Spinal Cord Injury Research Techniques Course, UC - Irvine  
2011 – now Guest Lecturer on Neural Regeneration, 1st year graduate class, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences; Beijing University and Tsinghua University.

### **Program / Department / University Service**

2005 – 2009 Member, Representative Assembly of the San Diego Division of the Academic Senate  
2005 – Member, Minor Proposition Committee for 21 Ph.D. students  
2005 – Member, Thesis Committee for 18 Ph.D. students (excluding students in my lab)  
2006 – 2010 Member, Admission Committee for the Biomedical Sciences Graduate Program  
2008 – 2009 Member, Admission Committee, Initiative for Maximizing Student Diversity (IMSD) program  
2006 – 2010 Member, Leichtag Biomedical Research Vivarium Users Executive Committee  
2011 – Chair, Leichtag Biomedical Research Vivarium Users Executive Committee

### **External Professional Activities**

#### Professional Memberships

2004 – Society for Neurosciences  
2006 – International Society for Stem Cell Research

#### Editorial Board Membership

2011 – Restorative Neurology and Neuroscience  
2011 – Neural Regeneration Research

#### Review activities:

2001 – Ad Hoc Reviewer for over 20 journals including Nature, Nature Medicine, Neuron, Science Translational Medicine, Proceedings of the National Academy of Sciences USA, Journal of Neuroscience, Trends in Neurosciences, Experimental Neurology, Journal of Comparative Neurology, Journal of Neurotrauma, Molecular and Cellular Neuroscience, Stem Cells and Development, European Journal of Neuroscience, Neuroscience, Journal of Cell Biology, FASEB Journal, Journal of Neurochemistry, EMBO Reports, Developmental Dynamics, Trends in Genetics, Cellular and Molecular Life Sciences, Journal of Cellular and Molecular Medicine, Journal of Chemical Neuroanatomy, Cellular and Molecular Neurobiology, PLoS ONE  
2005 – Ad Hoc Reviewer for grant agencies in Singapore (Agency for Science, Technology and Research), United Kingdom (International Spinal Research Trust), Austria (Wings for Life Spinal Cord Research Foundation), Israel (Israel Science Foundation) and USA (The Craig H. Neilsen Foundation, NIH Study Section on Acute Neural Injury & Epilepsy)

#### Meeting/symposium organizing:

2008 Organizer and Chair, Mini-Symposium on *Axon regeneration in the CNS: new models and insights*, The Society for Neuroscience (SfN) Annual Meeting, Washington, D.C.

#### Platform Presentations/invited Lectures

- 1994 The RNA processing meeting of the RNA Society, Madison, Wisconsin. *Yeast core snRNP structure.*
- 1998 The 10th Annual Graduate Student Symposium, Baylor College of Medicine, Houston, Texas. *An efficient system for chromosome engineering in mice.*
- 1998 Meeting on Conditional Genetic Technologies in the Mouse, Cold Spring Harbor, New York. *An efficient system for chromosome engineering in mice.*
- 1998 Meeting on Mouse Molecular Genetics, Cold Spring Harbor, New York. *Functional analysis of mouse mPer1 and mPer2 in circadian rhythms by gene targeting.*
- 2000 The Croucher Foundation Advanced Study Institute, the University of Hong Kong, Hong Kong. *Large scale genome manipulation.*
- 2000 Department of Genetics and Genetic Engineering, Fudan University, Shanghai, China. *Manipulating the mouse genome: single gene knockouts and large chromosomal rearrangements.*
- 2002 International Spinal Research Trust Annual Meeting, London, United Kingdom. *Genetic analysis of Nogo in adult spinal regeneration.*
- 2002 Meeting on Axon Guidance and Neural Plasticity, Cold Spring Harbor, New York. *Genetic analysis of Nogo function in adult spinal regeneration.*
- 2003 EMBO Workshop on the Assembly of Neural Circuits, Varenna, Italy. *Genetic analysis of Nogo and Nogo-66 Receptor function in adult spinal regeneration.*
- 2004 Job talk given at various institutions. *Axon regeneration in adult mammalian CNS: Nogo, NgR and beyond.*
- 2005 California Spinal Cord Injury / Neural Regeneration Consortium, Roman Reed Research Meeting, Irvine, California. *The role of Nogo in CST regeneration failure: what are the mouse models telling us?*
- 2005 International Spinal Research Trust Annual Meeting, London, United Kingdom. *The role of inhibitory molecules in CNS axon regeneration failure: insights from mouse models.*
- 2005 Merck neurosciences seminar, University of California, San Diego. *Axon regeneration in the mammalian CNS: insights from mouse models.*
- 2006 California Spinal Cord Injury / Neural Regeneration Consortium, Roman Reed Research Meeting, Irvine, California. *Myelin inhibitors in CNS axon regeneration - functional redundancy and an initial application of a genetic tracer.*
- 2006 Institute of Neuroscience, Chinese Academy of Sciences, Shanghai, China. *Of mice and men: regenerating injured spinal axons.*
- 2006 Banbury Center Conference on Axonal Dynamics and Synaptic Junctions, Cold Spring Harbor, New York. *Axon Regeneration in the Mammalian CNS: Lessons from Mouse Models.*
- 2007 California Spinal Cord Injury / Neural Regeneration Consortium, Roman Reed Research Meeting, Irvine, California. *Role of EphA4 in Spinal Cord Injury and Axon Regeneration.*
- 2007 The 13<sup>th</sup> Annual San Diego Cell Biology Meeting, La Jolla, California. *Axon regeneration in the mammalian CNS.*
- 2007 State of the Art in Spinal Cord Injury Research and Clinical Application Meeting, Ittingen, Switzerland. *White Matter Inhibitors in CNS Axon Regeneration – Lessons from Mouse Models.*
- 2008 Symposium on "Novel Strategies for Plasticity and Repair after Spinal Cord Injury", American Society for Neurochemistry Annual Meeting, San Antonio, Texas. *Genetic mouse models in studying inhibitors of spinal axon regeneration.*
- 2008 California Spinal Cord Injury / Neural Regeneration Consortium, Roman Reed Research Meeting, Irvine, California. *Role of EphA4 in Spinal Cord Injury and Axon Regeneration.*
- 2008 Neural Repair Seminar Series, University of California – Los Angeles. *Using genetic mouse models to decipher the roles of inhibitory molecules in CNS axon regeneration.*
- 2008 Wings for Life Symposium: Functional Recovery Following Spinal Cord Injury. Salzburg, Austria. *In vivo imaging of injured spinal axons in mice with 2-photon microscopy.*
- 2008 Shiley-Marcos Alzheimer's Disease Research Center Seminar Series, UCSD. *Genetic mouse models to study spinal axon regeneration in the CNS.*
- 2008 The 26th Annual National Neurotrauma Society Symposium, Orlando, Florida. *Roles of genetic mouse models in SCI regeneration studies.*
- 2008 Mini-Symposium on "Axon regeneration in the CNS: new models and insights", The Society for Neuroscience (SfN) Annual Meeting, Washington, D.C. *Studying injury response of mouse spinal axons with two-photon in vivo imaging. (serving as Mini-Symposium Organizer and Chair)*
- 2010 Symposium for Chinese Neuroscientists Worldwide, Nanchang, China. *Axon regeneration in the adult CNS: The role of myelin-derived axon growth inhibitors.*

- 2010 Institute of Neuroscience, Chinese Academy of Sciences, Shanghai, China. *Axon regeneration in the CNS: myelin inhibitors and beyond.*
- 2011 Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences; Beijing University/Tsinghua University. *Neural Regeneration.*
- 2011 Rutgers University, W. M. Keck Center for Collaborative Neuroscience/The Spinal Cord Injury Project. *Axon regeneration in the CNS: myelin inhibitors and beyond.*