
BIOGRAPHICAL SKETCH

NAME		POSITION TITLE	
Min Liu		Post-doc associate	
<i>EDUCATION/TRAINING (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
Tianjin Medical University	M.D.	1993	Medicine
University of Florida	Ph.D.	2006	Rehabilitation science

A. Positions and Honors.**Positions and Employment**

- 1992-1993 Intern; Tianjin Medical University Hospital, Tianjin, China
1993-1996 Orthopaedic surgeon; Department rotation, Tianjin Hospital, Tianjin, China
1996-2000 Hand surgeon; Department of Hand and Microsurgery, Tianjin Hospital, Tianjin, China
2001-2006 Research assistant/graduate student, Department of Physical Therapy, College of Public Health and Health Professions, University of Florida
2006-2008 Post-doc associate, Department of Physiology and functional genomics, College of Medicine, University of Florida
2008- Post-doc associate, Department of Physical Therapy, College of Public Health and Health Professions, University of Florida

Other Experience and Professional Memberships

- 2006- 2008 Member; International Society for Magnetic Resonance in Medicine
2005-2007 Member; American college of sports medicine
2004- Member; Society for neuroscience

Honors

- 2001-2005 University Alumni Fellowship, University of Florida
2003 Graduate Student Travel Fund, Graduate school, University of Florida, ISMRM annual meeting, Toronto
2004 Graduate Student Council Travel Fund, Student Government, University of Florida, ACSM annual meeting, Nashville
2004 Travel Award for RSD Students, Rehabilitation Science Doctoral Program, University of Florida, Neuroscience annual meeting, San Diego
2006 ISMRM Educational Stipend Award, International Society for Magnetic Resonance in Medicine
2005 Frederick Scholarship Award, College of Public Health and Health Professions, University of Florida

- 2006 Outstanding Research Award, College of Public Health and Health Professions, University of Florida
- 2008 Post-doc fellowship grant (#84004). The Craig H. Neilsen Foundation.

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

1. **M. Liu**, P. Bose, F. Thompson, G. Walter, K. Vandeborne Changes in muscle T2 relaxation time following spinal cord injury and rehabilitation. *Eur J Appl Physiol.* 2006 Jun;97(3):355-61.
2. **M. Liu** and J. Stevens, P. Bose, W. O'steen, D. Anderson, F. Thompson, K. Vandeborne Effects of treadmill training on IGF-I expression in rat soleus muscle following spinal cord injury *J of Neurotrauma* 2006 Nov;23(11):1671-1681
3. N. Pathare, K. Vandeborne, **M. Liu**, J. Stevens, Y. Li, G. Walter. Alterations in inorganic phosphate in mouse hindlimb muscles during limb disuse. *NMR Biomed.* 2007 May 21
4. **M. Liu**, G. Walter, N. Pathare, U. Zimmerman, R. Forster, K. Vandeborne. A quantitative study of bioenergetics in skeletal muscle lacking carbonic anhydrase III by ³¹P magnetic resonance spectroscopy. *Proc Natl Acad Sci U S A.* 2007 Jan 2;104(1):371-6.
5. **M. Liu**, P. Bose, F. Thompson, G. Walter, K. Vandeborne. The effect of locomotor training on the skeletal muscle following spinal cord contusion injury using magnetic resonance Imaging. *Spinal Cord.* 2008 Jul;46(7):488-93. Epub 2008 Feb 19.
6. **M. Liu**, J. Stevens, A. Jayaraman, F. Ye, C. Conover, P. Bose, F. Thompson, G. Walter, S. Borst, K. Vandeborne. Impact of treadmill locomotor training on skeletal muscle IGF-I and myogenic regulatory factors in spinal cord injured rats *In review submitted to EJAP*

Selected scientific presentation: (slide and poster presentations)

- **M. Liu**, G.A. Walter, R.T. Torres, S. Spalthoff, Z Wei, J.D. Gibbs, R.E. Forster, K. Vandeborne Effects of carbonic anhydrase inhibition on muscle metabolism by in vivo magnetic resonance spectroscopy *Proc. Intl. Soc. Magn. Reson. Med., Toronto (2003)*,
- **M. Liu**, P. Bose, F. Thompson, G.A. Walter, K. Vandeborne The effects of locomotor training on the skeletal muscle following spinal cord injury using magnetic resonance imaging *Proc. Intl. Soc. Magn. Reson. Med., Kyoto (2004), 12:779*
- **M. Liu**, G.A. Walter, N. C. Pathare, U. Zimmerman, R. E. Forster, K. Vandeborne A quantitative study of bioenergetics in carbonic anhydrase III knock out mice by in vivo ³¹p magnetic resonance spectroscopy *Proc. Intl. Soc. Magn. Reson. Med., Kyoto (2004), 12:794, P171*
- **M. Liu**, P. Bose, G. A. Walter, D. K. Anderson, F. Thompson, K. Vandeborne Impact of locomotor training on muscle morphology following spinal cord contusion injury *Neuroscience 34th annual meeting, San Diego (2004)*
- **M. Liu**, P. Bose, G. A. Walter, D. K. Anderson, F. Thompson, K. Vandeborne Changes in soleus myosin heavy chain expression in response to training following spinal cord injury *ACSM 52th annual meeting, Nashville (2004)*
- N. C. Pathare, **M. Liu**, J Stevens, K. Vandeborne, G.A. Walter ³¹P Magnetic Resonance Spectroscopy of Mouse Skeletal Muscle Following Hind Limb Cast Immobilization *Proc. Intl. Soc. Magn. Reson. Med., Miami (2005), 13:400*
- J. Stevens, **M. Liu**, P. Bose, W. O'steen, D. Anderson, F. Thompson, K. Vandeborne Changes in Soleus Muscle Force and Fatigue after Spinal Cord Injury with Treadmill Locomotor Training in Rats *Combined Sections Meeting, American Physical Therapy Association, Feb. 2006.*
- J. Stevens, **M. Liu**, P. Bose, G. Walter, D. Anderson, F. Thompson, K. Vandeborne Changes in Soleus Muscle Function, Morphology, and IGF-I Expression with One Week of Locomotor Training in Spinal Cord Injured Rats *Society For Muscle Biology, Frontiers in Myogenesis April 2006*

- **M. Liu**, G.A. Walter, N. C. Pathare, U. Zimmerman, R. E. Forster, K. Vandenborne A quantitative study of bioenergetics in skeletal muscle lacking carbonic anhydrase III by ³¹P magnetic resonance spectroscopy *ISMRM 14th annual meeting Seattle WA May 2006*
- **M. Liu**, J. Stevens, P. Bose, F. Thompson, G.A. Walter, K. Vandenborne The effect of treadmill training on IGF-I expression in skeletal muscle following incomplete spinal cord injury *ACSM 53th annual meeting Denver June 2006*
- **M. Liu**, J. Stevens, G.A. Walter, P. Bose, F. Thompson, S. Borst, K. Vandenborne The effect of treadmill training on IGF-I levels in rat skeletal muscle and lumbar spinal cord following spinal cord injury *ACSM 54th annual meeting New Orleans May 2007*
- **M. Liu**, F. Ye, A. Jayaraman, P. Shah, G.A. Walter, C. Conover, S. Borst, FJ. Thompson, K. Vandenborne The effect of overexpression of IGF-I in Skeletal Muscle following spinal cord injury and locomotor training *3rd Annual Neuromuscular Plasticity Symposium December 2007*
- **M. Liu**, F. Ye, A. Jayaraman, P. Shah, G.A. Walter, C. Conover, S. Borst, FJ. Thompson, K. Vandenborne The potential synergistic effect of IGF-I modulation and locomotor training in promoting muscle plasticity following spinal cord injury *4th Annual Neuromuscular Plasticity Symposium December 2008*
- P. Shah, **M. Liu**, F. Ye, R Vohra, A. Jayaraman, G.A. Walter, K. Vandenborne In vivo bioenergetics of rat hindlimb muscle after moderate spinal cord contusion *APTA Combined Sections Meeting Las Vegas, NV. February 11, 2009.*
- Jayaraman A, **Liu M**, Ye F, Walter G, Reier P, Vandenborne K. Neuromuscular adaptations following incomplete spinal cord injury and locomotor training. Platform CSM 2008 Nashville, TN
- Jayaraman A, **Liu M**, Fan Y, Anderson DK, Thompson FJ, Sugiura T, Walter GA, Vandenborne K. Differential muscle adaptations after contusion spinal cord injury and locomotor training. *PHHP Research Series 2007 Gainesville, FL*
- Fan Ye, **Min Liu**, Stephen Borst, Glenn Walter, Krista Vandenborne. Impact of viral mediated overexpression of IGF-I on skeletal muscle following cast immobilization. *ACSM, Seattle, May 2009.*
- **Liu, M**; Ye, F; Jayaraman, A; Shah, P; Walter, GA; Bose, P; Thompson, FJ; Vandenborne, K. The potential synergistic effect of IGF-I modulation and locomotor training in promoting muscle plasticity following spinal cord injury *Accepted by Society for Neuroscience annual meeting, Chicago IL October 2009*