

Tony M. Mosconi, PhD
Associate Professor, Instructional Faculty
Chapman University
Department of Physical Therapy
Crean College of Health and Behavioral Sciences
Harry & Diane Rinker Health Science Campus
9401 Jeronimo
Irvine, CA 92618

E-mail: mosconi@chapman.edu
Tel.: (714) 997-6983

Education:

Allegheny College, Meadville, PA	B.S.	1983	Biology
Albany Medical College, Albany, NY.	Ph.D.	1991	Anatomy

Teaching Positions:

2014 -	Associate Professor, Instructional Faculty, Department of Physical Therapy, Chapman University
2003-2014	Associate Professor of Anatomy, Western University of Health Sciences
1997-2003	Assistant Professor of Anatomy, Western University of Health Sciences
1992-94	Instructor, Human Anatomy, Department of Biological Sciences, West L.A. College
1985	Teaching Assistant, Neuroscience, Albany Medical College
1984	Teaching Assistant, Gross Anatomy, Albany Medical College
1981	Teaching Assistant, General Biology, Allegheny College

Research Appointments:

1994-97	Research Associate, Washington University School of Medicine, St. Louis, MO
1992-94	NIH Postdoctoral Fellowship, Department of Anatomy and Cell Biology, University of California, Los Angeles, CA
1991-92	Postdoctoral Training Fellowship, Ahmanson Laboratory, University of California, Los Angeles, CA

Professional Memberships:

American Association for the Advancement of Science
American Association of Clinical Anatomists
Microscopy Society of America
New York Academy of Sciences
Society for Neuroscience
California Physical Therapy Association
Ad Hoc Reviewer – J. Comp. Neurol. and Somatosensory & Motor Res.
Ad Hoc Reviewer – Mosby International Ltd.
Ad Hoc Reviewer – Wolters Kluwer

Honors:

Greenville Hospital Scholarship 1985
National Research Service Award Individual Fellowship 1992-94
Who's Who Among America's Teachers 2002, 2004, 2005
DPT Teacher of the Year, Western university, 2007

Teaching Duties:

PT 510 Functional Human Anatomy I
PT 510L Functional Human Anatomy I Lab
PT 610 Functional Human Anatomy II Lab
PT 521 Applied Neurophysiology

PT 522 Functional Human Neuroanatomy I
 PT 522L Functional Human Neuroanatomy I Lab
 PT 523 Functional Human Neuroanatomy II
 PT 523L Functional Human Neuroanatomy II Lab

Publications:

- Mosconi, T.M.**, F.L. Rice, and M.J. Song (1990) High-voltage EM description of sensory endings in the inner conical body of the rat vibrissal follicle-sinus complex. *Proc. XIIth Int. Cong. Electron Microscopy*, 12:410-411.
- Mosconi, T.M.** and F.L. Rice (1991) Sensory innervation of the mystacial pad fur of the ferret. *Neurosci. Lett.*, 121:199-202.
- Mosconi, T.M.**, F.L. Rice, and M.J. Song (1993) Sensory innervation in the inner conical body of the vibrissal follicle-sinus complex. *J. Comp. Neurol.*, 328:232-251.
- Mosconi, T.M.** and F.L. Rice (1993) Sequential differentiation of sensory innervation in the mystacial pad of the ferret. *J. Comp. Neurol.*, 333:309-325.
- Mantyh, P.W., C.J. Allen, S. Rogers, E. DeMaster, J.R. Ghilardi, **T. Mosconi**, L. Kruger, I.L. Taylor, and S.R. Vigna (1994) Some sensory neurons express neuropeptide Y receptors: potential paracrine inhibition of primary afferent nociceptors following peripheral nerve injury. *J. Neurosci.*, 14:3958-3968.
- Mosconi, T.M.** and L. Kruger (1996) Fixed-diameter polyethylene cuffs applied to the rat sciatic nerve induce a painful neuropathy: ultrastructural morphometric analysis of axonal alterations. *Pain*, 64:37-59.
- Mosconi, T.**, W.D. Snider, and M.F. Jacquin (2001) Neurotrophin receptor expression in retrogradely labeled trigeminal nociceptors – comparisons with spinal nociceptors. *Somatosens Mot Res* 2001;18(4):312-21.
- Mosconi, T.** and S. Kamath (2003) Bilateral asymmetric deficiency of the pectoralis major muscles. *Clinical Anatomy*, 16:346-349.
- Mosconi T**, Gruber T. (2010) Immunohistochemical comparison of whisker pad cutaneous innervation in Swiss Webster and hairless mice. *Somatosens Mot Res*. 27:149-73.
- Mosconi T**, Woolsey TA, Jacquin MF. (2010) Passive vs. active touch-induced activity in the developing whisker pathway. *Eur J Neurosci*. 32:1354-63.
- Mosconi T**, Arends JJ, Jacquin MF. (2013) Null Mutations of NT-3 and Bax Affect Trigeminal Ganglion Cell Number but Not Brainstem Barrelette Pattern Formation. *Somatosens Mot Res*. *in press*

Abstracts:

- Rice, F.L., **T.M. Mosconi**, and B.L. Munger (1986) Interspecies variations in vibrissal innervation: the whisking proprioceptors. *Soc. Neurosci. Abstr.*, 12:336.
- Mosconi, T.M.**, F.L. Rice, and B.L. Munger (1987) Development of the mystacial pad innervation in the ferret. *Anat. Rec*. 218:94A.
- Mosconi, T.M.**, F.L. Rice, and H. Aldskogius (1988) Innervation of the inner conical body in the rat vibrissal follicle-sinus complex. *Soc. Neurosci. Abstr.*, 14:1166.
- Rice, F.L., R. Strominger, **T.M. Mosconi**, and I. Boniece (1989) Erroneous innervation of rat vibrissal follicle-sinus complexes (F-SCs) after selective transection and regeneration of deep vibrissal nerves. *Soc. Neurosci. Abstr.*, 15:1059.
- Mosconi, T.M.**, F.L. Rice, and M.J. Song (1991) Sensory endings in the inner conical body of the rat mystacial vibrissa. *Soc. Neurosci Abstr.*, 17:106.

- Mosconi, T.M.** and L. Kruger (1992) Electron microscopic analysis of axon fiber spectrum following mononeuropathy hyperpathia produced by fixed-diameter nerve constriction. Soc. Neurosci. Abstr., 18:289.
- Blanco, C.E., **T. Mosconi**, L. Kruger, and P.E. Micevych (1993) Alterations in motoneuronal a CGRP, GAP-43 and ChAT mRNA levels following mononeuropathy produced by fixed diameter nerve "constriction" in the rat. Soc. Neurosci. Abstr., 19:1508.
- Blanco, C.E., **T. Mosconi**, P.E. Micevych, and L. Kruger (1993) Experimental mononeuropathy increases GAP-43 levels in spinal motoneurons bilaterally. Physiologist, 36:A-27.
- Balercia, G., **T. Mosconi**, D. Anderson, and L. Kruger (1993) The response of perineural epithelium to application of fixed diameter sleeves inducing a painful neuropathy in rats. ENA Abstr., 151.
- Mosconi, T.M.**, P. Lue, E. McNally, D. Anderson, J. McDonald, and L. Kruger (1994) Immunohistochemical and electron microscopic studies of cuff-induced mononeuropathy. Soc. Neurosci. Abstr., 20:761.
- L. Kruger, **T. Mosconi**, J. McDonald, G.C. Balercia, and D. Anderson (1994) An evaluation of putative constriction or compression neuropathy by the application of polyethylene cuffs of various fixed diameters producing mononeuropathy in the rat: electron microscopic observation. 1st Scientific Meeting of the European Federation of IASP Chapters, Pain in Europe, 1995.
- Henderson, T.A., **T.M. Mosconi**, D.R. Forschini, A. Silos-Santiago, M. Barbacid, and M.F. Jacquin (1995) Whisker-related patterning in the cerebral cortex of *trkA*, *trkB*, or *trkC* knockout mice. Soc. Neurosci. Abstr., 21:279 (slide show presenting author).
- McNally, E.W., C.E. Blanco, **T. Mosconi**, P.E. Micevych, and L. Kruger (1995) Unilateral peripheral nerve injury in the rat induces time-dependent bilateral changes in mRNA levels of the axonal growth associated protein GAP-43 in motoneurons. Soc. Neurosci. Abstr., 21:1076.
- Mosconi, T.M.**, J.J. Christensen, M.F. Jacquin, and T.A. Woolsey (1995) 2-DG uptake patterns evoked by passive whisker deflection in perinatal mice. Soc. Neurosci. Abstr., 21:570.
- Matsuo, S., T.A. Henderson, **T.M. Mosconi**, A. Silos-Santiago, M. Barbacid, and M.F. Jacquin (1996) Oral somatosensory innervation in *trkA*, *trkB*, or *trkC* knockout mice. Soc. Neurosci. Abstr., 22:756.
- Mosconi, T.M.**, J.J. Christensen, M.F. Jacquin, and T.A. Woolsey (1996) Patterns of 2DG labeling evoked by single whisker deflection in the trigeminal system of mice at defined postnatal ages. Soc. Neurosci. Abstr., 22:756.
- J.J. Christensen, **T. Mosconi**, M.F. Jacquin, and T.A. Woolsey (1997) Patterns of 2DG labeling evoked by passive versus active single whisker deflection in the trigeminal system of adult and 7day old mice. Soc. Neurosci. Abstr. 23:914.
- J.A. DeMaro, **T.M. Mosconi**, J.J.A. Arends, and M.F. Jacquin (1997) Circuits engaged by thalamic-projecting cells in the barrelettes of V nucleus principalis. Soc. Neurosci. Abstr. 23:67.
- T. Mosconi**, D. Molliver, R. Gerfen, W.D. Snider, L. Reichardt, S. Matsuo, T.A. Henderson and M.F. Jacquin (1997) Neurotrophin receptor expression in trigeminal nociceptive systems - comparisons with the spinal systems. Soc. Neurosci. Abstr. 23:135.
- T. Mosconi** (1998) Cutaneous innervation in the hairless mutant mouse. Soc. Neurosci. Abstr. 24:629.
- T. Mosconi** (1999) Developing mystacial pad innervation in the *hairless* mutant mouse. Soc. Neurosci. Abstr., 25:405.
- Kamath, S., **T. Mosconi**, E. Rega, R. Rockwell, K. Shirikjian, U. Schneider, and J. Tajuna (2000) A case of bilateral asymmetrical deficiency in pectoralis major muscles. American Assoc. of Clinical Anatomists.
- T. Mosconi** (2000) Immunohistochemical comparison of CGRP- and substance P (SP)-IR in the spinal cord dorsal horns of normal Swiss Webster and *hairless* (*hr*) mutant mice. Barrels XII Satellite Symposium of Soc. Neurosci.

- T. Mosconi** and F. White (2001) YFP-positive innervation in the mystacial pads of transgenic mice. Soc. Neurosci. Abstr. 26.
- T. Mosconi** and T. Gruber (2002) GAP-43 labeling in the reorganized mystacial pad innervation of the mutant mouse, *hairless (hr)*. Soc. Neurosci. Abstr. 27.
- AR Simonsen, SS Kapphahn, T Gruber, and **T Mosconi** (2002) Development and regeneration of lanceolate innervation in transgenic YFP mice. Journal of Clinical Investigation, (Supplement 1), 50:46.
- SS Kapphahn, AR Simonsen, T Gruber, and **T Mosconi** (2002) Inner conical body innervation in Swiss-Webster compared with *hairless* mice. Journal of Clinical Investigation, (Supplement 1), 50:47.
- JL Biehn, C Gilleon, T Gruber, and **T Mosconi** (2005) Qualitative analysis of the central pattern of projections from the infraorbital nerve to the spinal trigeminal pars caudalis in *hairless* and Swiss Webster mice. Journal of Clinical Investigation, (Supplement 1), 53:22.
- C. Gilleon, J. Biehn, T. Gruber, **T. Mosconi** (2005) Comparison of Central Projections from T12 Spinal Nerve in Mutant Hairless (*Hr*) Mice Versus Swiss Webster Mice. Journal of Clinical Investigation, (Supplement 1), 53:23.
- T. Mosconi**, and T. Gruber, (2005) c-Ret immunolabeling of sensory innervation in mystacial pads of Swiss Webster and *hairless* mutant mice. Soc. Neurosci. Abstr. 30:625.17.