

UNIVERSITY OF MIAMI
Curriculum Vitae

1. Date: 22 March 2018

PERSONAL

2. Name: **Alberto A. Martinez-Arizala, M.D., FAAN**

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Spinal Cord Injury, Stop 128
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5. Home Address: 1238 N.E. 96th Street
Miami Shores, FL 33138

6. Current Academic Rank: Professor of Clinical Neurology

7. Primary Department: Department of Neurology

8. Secondary or Joint Appointments: Department of Neurological Surgery
Department of Rehabilitation Medicine

9. Citizenship: U.S.

10. Visa Type: Not applicable

HIGHER EDUCATION

11. Institutional:

Florida State University, Tallahassee, FL	B.S. - Chemistry Magna Cum Laude	9/1971 – 6/1975
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University of Miami School of Medicine	M.D.	9/75 – 6/1979
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Walter Reed Army Medical Center Washington, D.C.	Internship Categorical Medicine	7/1979 – 6/1980
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Letterman Army Medical Center San Francisco, CA	Residency - Neurology	7/1981 – 6/1983
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12. Non-institutional: Not applicable

13. Certification, licensure:
- National Board of Medical Examiners - Diplomate: 7/1/80.
- State of Florida License Number: ME 45547, expires: 31 January 2017
- American Board of Psychiatry and Neurology, Certification in Neurology - May 1985; Never Expires
- American Society of Neurorehabilitation, Certification - May 1992
- American Board of Physical Medicine and Rehabilitation
Spinal Cord Injury Medicine, Certification – Expires Dec 2023.

EXPERIENCE

14. Academic:
- | | | |
|---|---|------------------|
| SCI Staff Physician | | 10/16 - present |
| Miami VA Medical Center | | |
| Chief , Spinal Cord Injury Service
Miami VA Medical Center | | 5/03 – 10/16 |
| Medical Director, Spine Institute
University of Miami Hospitals and Clinics | | 12/98 - Present |
| Department of Neurology and
University of Miami School of Medicine
Miami, FL | Professor of Clinical
Neurology | 7/2012 – Present |
| Department of Neurology and
University of Miami School of Medicine
Miami, FL | Associate Professor of Clinical
Neurology | 6/1997 – 6/2011 |
| Department of Neurology
University of Miami School of Medicine
Miami, FL | Assistant Professor | 8/1989 -6/1997 |
| Department of Neurology,
University of Miami School of Medicine
Miami, FL | Neurology Attending
to the Spinal Cord Rehab. Unit
at Jackson Memorial Hospital | 8/1989 – 6/1995 |
| Dept. of Neurology
University of Miami School of Medicine
Miami, FL | Director, Medical Student Education | 1/1994 - 6/1996 |
| Miami Project to Cure Paralysis,.
University of Miami School of Medicine,
Miami, FL | Principal Investigator | 8/1989 - Present |
| Department of Neurology
Uniformed Services University of
The Health Sciences, Bethesda, MD. | Assistant Professor | 8/1985 - 8/1989 |
| Texas Tech University School of Medicine, | Clinical Assistant Professor | 7/1983 - 8/1985 |

El Paso Campus, Lubbock, Texas

15. Non-Academic: Not applicable

16. Military:

US Army Medical Corps	Major, Inactive Reserves	7/1989 - 12/1994
US Army Medical Corps, Neuropharmacology Branch, Department of Medical Neuroscience, Walter Reed Army Institute of Research, Washington, D.C.	Major, Staff Scientist	8/1985 - 7/1989
US Army Medical Corps, William Beaumont Army Medical Center, El Paso, TX	Major, Staff Neurologist	7/1983 - 8/1985
US Army Medical Corps Letterman Army Medical Center, San Francisco, CA	Captain, Resident in Neurology	6/1980-6/1983
US Army Medical Corps Walter Reed Army Medical Center, Washington, D.C.	Captain, Internship in Medicine	6/1979 - 6/1980

PUBLICATIONS

17. Books and monographs published:

Brindle T, **Martinez-Arizala A**, Levi A, Green BA. . Experimental Spinal Cord Injury. In *Spine Trauma*, Levine AM, Eismont FJ, Garfin SR, Zigler JE (eds), American Academy of Orthopaedic Surgeons, Rosemont, IL, 2011, 11: 147-174,

Pattany PM, Widerstrom-Noga EG, Bowen BC, **Martinez-Arizala A**, Garcia BR, Cuervo E, Quencer RM, Yeziarski RP. Proton magnetic resonance spectroscopy following spinal cord injury: Evaluation of patients with chronic neuropathic pain. In *Spinal Cord Injury Pain: Assessment, Mechanisms, Management*. Progress in Pain Research and Management, Yeziarski RP and Burchiel KJ (eds), IASP Press, Seattle, 2002, Vol 23:301-311.

Martinez-Arizala A, Green BA, Bunge RP. Experimental Spinal Cord Injury: Pathophysiology and Treatment. In *The Spine*, Rothman RH, Simeone FA (eds), Fourth Edition, W.B. Saunders Co, Philadelphia, 1999, 1143-1168.

Martinez-Arizala A, Green BA. Experimental Spinal Cord Injury. In *Spine Trauma*, Levine AM, Eismont FJ, Garfin SR, Zigler JE (eds), W.B. Saunders Co, Philadelphia, 1998, 7:87-101.

Martinez-Arizala A, Brackett NL. Sexual Dysfunction in Spinal Cord Injury. In *Sexual Dysfunction: A Neuromedical Approach*. Singer C, Weiner WJ (eds). Futura Publishing, Armonk, 1994, 7:135-153.

Martinez-Arizala A, Green BA, Bunge RP. Experimental Spinal Cord Injury: Pathophysiology and Treatment. In *The Spine*, Rothman RH, Simeone FA (eds), Third Edition, W.B. Saunders Co, Philadelphia, 1992, 32:1247-1276.

Holiday JW, Long JB, **Martinez-Arizala A**, Chen HS, Reynolds DG, and Gurll NJ. Effects of TRH in circulatory shock and central nervous system ischemia. *Annals of the New York Academy of Sciences*, 1989, 553:370-379.

Rigamonti DD, **Martinez-Arizala A**, Long JB. Neuroprotective effects of Ketamine in a rodent model of peptide-induced spinal cord injury: Anatomical and physiological correlates. In *Status of Ketamine in Anesthesia*, Domino EF (ed), NPP Books, Ann Arbor, 1990, pp 563-575.

18. Juried or refereed journal articles and exhibitions:

Jermakowicz WJ, Adcock J, Jagid JR, Luca CC, **Martinez-Arizala A**, Hentall ID, Widerstrom-Noga E. Deep brain stimulation improves the symptoms and sensory signs of persistent central neuropathic pain from spinal cord injury: a case report. *Frontiers in Human Neuroscience*. 2017: 11:177.

Widerström-Noga E, Anderson KD, Perez S, Hunter JP, **Martinez-Arizala A**, Adcock JP, Escalona M. (2017). Living With Chronic Pain After Spinal Cord Injury: A Mixed-Methods Study. *Archives of Physical Medicine Rehabilitation*. 98(5):856-865.

Widerström-Noga E, Anderson KD, Perez S, Hunter JP, **Martinez-Arizala A**, Adcock JP, Escalona M. Living with chronic pain after spinal cord injury: A mixed-methods study. *Arch Phys Med Rehabil*. 2016 Nov 25. pii: S0003-9993(16)31284-9.

Hentall ID, Luca CC, Widerstrom-Noga E, Vitores A, Fisher LD, **Martinez-Arizala A**, Jagid JR. The midbrain central gray best suppresses chronic pain with electrical stimulation at very low pulse rates in two human cases. *Brain Res*. 2016 Feb 1;1632:119-26

Bristow S, Dalal K, Santos JO, **Martinez-Arizala A**, Banovac K. Prevalence of Hypertension, Dyslipidemia, and Diabetes Mellitus After Spinal Cord Injury. *Fed Pract*. 2013: June;30 (6) 15-18.

Widerström-Noga E, Pattany PM, Cruz-Almeida Y, Felix ER, Perez S, Cardenas DD, **Martinez-Arizala A**. Metabolite concentrations in the anterior cingulate cortex predict high neuropathic pain impact after spinal cord injury. *Pain*. 2013 Feb;154(2):204-12.

Cruz-Almeida Y, Felix ER, **Martinez-Arizala A**, Widerström-Noga EG. .Decreased spinothalamic and dorsal column medial lemniscus-mediated function is associated with neuropathic pain after spinal cord injury. *J Neurotrauma*. 2012 Nov 20;29(17):2706-15

Nance PW, Huff FJ, **Martinez-Arizala A**, Ayyoub A, Chen D, Bian A, Stamler D. Efficacy and safety study of arbaclofen placarbil in patients with spasticity due to spinal cord injury. *Spinal Cord*. 2011 Sep;49(9):974-80.

Cruz-Almeida Y, Felix ER, **Martinez-Arizala A**, Widerström-Noga EG. Pain Symptom Profiles in Persons with Spinal Cord Injury. *Pain Medicine* 2009;10:1246-1259.

Khan S, Plummer M, **Martinez-Arizala A**, Banovac K. Hypothermia in Patients with Chronic Spinal Cord Injury. *J Spinal Cord Med* 2007; 30:45-48.

Widerström-Noga EG, Cruz-Almeida Y, **Martinez-Arizala A**, Turk DC. Internal consistency, stability, and validity of the Spinal Cord Injury version of the Multidimensional Pain Inventory). *Arch Phys Med & Rehab*. 2006;87:516-523.

Cruz-Almeida Y, **Martinez-Arizala A**, Widerström-Noga EG. Chronicity of pain associated with spinal cord injury: a longitudinal analysis. *J Rehabil Res Dev*, 2005:585-589.

Nash MS, DeGroot J, **Martinez-Arizala A**, Mendez AJ. Evidence for an exaggerated postprandial lipemia in chronic paraplegia. *J Spinal Cord Med*, 2005: 28:320-5, 2005.

Martinez-Arizala A. Methods to measure sensory function in humans versus animals. *J Rehab Res Dev*. 2003;40, Suppl 1:35-40

- Pattany PM, Yeziarski RP, Widerström-Noga EG, Bowen BC, **Martinez-Arizala A**, Garcia BR, Quencer RM. Proton magnetic Resonance Spectroscopy of the Thalamus in Patients with Chronic Neuropathic Pain after Spinal Cord Injury. *Amer J Neurorad.* 2002, 23:901-905.
- Sharma KR, Cross J, Ayyar DR, **Martinez-Arizala A**, Bradley WJ. Diabetic demyelinating polyneuropathy responsive to intravenous immunoglobulin therapy. *Arch Neurol.* 2002;59:751-757
- Onifer SM, Rodríguez JF, Santiago DI, Benitez JC, Kim DT, Brunschwig JPR, Pacheco JT, Perrone JV, Llorente O, Hesse DH, **Martinez-Arizala A**. Cervical Spinal Cord Injury in the Adult Rat: Methods for Assessing Forelimb Dysfunction, *Restorative Neurol and Neurosci*, 1997, 11:221-223.
- Martinez-Arizala A**, Mora RJ, Madsen PW, Green BA, Hayashi N. Dorsal spinal venous occlusion in the rat. *J Neurotrauma*, 1995, 12:199-208.
- Nance PW, Bugaresti J, Shellenberger K, Sheramata W, **Martinez-Arizala A**, and the North American Tizanidine Study Group. *Neurology*, 1994, 44:S44-S52.
- Long JB, Rigamonti DD, Oleshanski MA, Wingfield CP, **Martinez-Arizala A**: Dynorphin A-Induced rat spinal cord injury: Evidence for excitatory amino acid involvement in a pharmacological model of ischemic spinal cord injury. *J Pharmacol Exper Thera*, 1994, 269:358-366.
- Martinez-Arizala A**, Green BA: Hypothermia in spinal cord injury, *J Neurotrauma*, 1992, 9:S497-S505.
- Gonzalez F, Chang JY, Banovac K, Messina D, **Martinez-Arizala A**, Kelley RJ: Autoregulation of cerebral blood flow in patients with orthostatic hypotension after spinal cord injury. *Paraplegia*, 1991, 29:1-7.
- Long JB, Rigamonti DD, Dosaka K, Kraimer JM, **Martinez-Arizala A**: Somatostatin causes vasoconstriction, reduces blood flow and increases vascular permeability in the rat central nervous system. *J Pharmacol Exper Thera*, 1992, 260:1425-1432.
- Martinez-Arizala A**, Long JB, Rigamonti DD, Kraimer JM, and Holaday JW. Effects of NMDA receptor antagonists following spinal ischemia in the rabbit. *Exp Neurol*, 1990, 108:232-240.
- Martinez-Arizala A** and Holaday JW. Is there a role for naloxone in the treatment of stroke? *Critical Care Med*, 1989, 249:499-506.
- Long JB, Rigamonti DD, de Costa B, Rice KC, and **Martinez-Arizala A**. Dynorphin A-induced rat hindlimb paralysis and spinal cord injury are not altered by the k opioid antagonist nor-binaltorphimine. *Brain Research*, 1989, 497:155-162.
- Long JB, **Martinez-Arizala A**, Johnson SH, and Holaday JW. Arginine8-vasopressin reduces spinal cord blood flow following spinal subarachnoid injection in rats. *J Pharmacol Exper Thera*, 1989, 249: 499-506.
- Long JB, **Martinez-Arizala A**, Rigamonti DD, and Holaday JW. Hindlimb paralytic effects of arginine vasopressin and related peptides following spinal subarachnoid injection in the rat. *Peptides*, 1989, 9:1335-1344.
- Martinez-Arizala A**, Holaday JW and Long JB. Cardiovascular responses to intrathecal vasopressin differ in conscious and anesthetized rats. *American Journal of Physiology*, 1989, 256: R193-R200.
- Martinez-Arizala A**, Long JB, and Holaday JW. TRH fails to antagonize the paralytic effects of intrathecal Dynorphin A and Substance P antagonists. *Brain Research*, 1988, 473: 385-388.
- Long JB, **Martinez-Arizala A**, Echevarria EE, Tidwell RE, and Holaday JW. Hindlimb paralytic effects of prodynorphin-derived peptides following spinal subarachnoid injection in rats. *European J Pharmacol*, 1988, 153:45-54.
- Martinez-Arizala A** and McCarty GM, Narcolepsy. *Military Medicine*, 1987, 152:470-472.

Long JB, **Martinez-Arizala A**, Petras JM, and Holaday JW. Endogenous opioids in spinal cord injury: a critical evaluation. *CNS Trauma*, 1986, 3:295-315.

Martinez-Arizala A, Brown CD, and McCarty GE. Auditory evoked potentials in gliomas of the brainstem. *Archives of Neurology*, 1983, 40:769-770.

Martinez-Arizala A, Sobol SM, McCarty GE, Nichols RB, and Rakita L. Amiodarone neuropathy. *Neurology*, 1983, 33:643-645.

19. Other works, publications and abstracts:

Managing Severe Neuropathic Pain After SCI: Provider, patient, and significant other perspectives. Widerström-Noga E, Anderson-Erisman K, Perez S, **Martinez-Arizala A**, Cambridge J. ASIA meeting, May 2-5, Rochester, MN, 2018.

Santos JO, Bristow S, Dalal KL, **Martinez-Arizala A**, Banovac K. Prevalence of Hypertension after Spinal Cord Injury. ASIA meeting, June 6-9, Washington DC, 2011.

Dalal KL, Bristow S, Santos JO, Martinez-Arizala A, Banovac K. Prevalence of Dyslipidemia after Spinal Cord Injury. ASIA meeting, June 6-9, Washington DC, 2011.

Widerström-Noga EG, Cruz-Almeida Y, **Martinez-Arizala A**, Turk DC. Psychometric properties of the Spinal Cord Injury version (MPI-SCI) of the Multidimensional Pain inventory. ASIA meeting May 12-14, 2005.

Cruz-Almeida, Y, **Martinez-Arizala A**, Alameda G, Thomas, G, Felix E, Widerstrom-Noga EG. Do individuals with incomplete spinal cord injuries (SCI) experience “more” pain? American Pain Society, March 30-April 2, 2005

Widerström-Noga EG, **Martinez-Arizala A**, Cruz Y, Alameda G, Gonzalez A. Assessment of chronic pain associated with spinal cord injury (SCI). ICORD, Vancouver, Canada, February 20-21, 2004

Martinez-Arizala A, Miami, FL, Allan DO Levi, Miami, FL and Steven F Falcone. Catastrophic complication associated with lumbar epidural lysis of adhesions procedure. ASIA meeting, May 14-16, 2004.

Alameda G, **Martinez-Arizala A**, Widerström-Noga EG. Characteristics of Pain Associated with Syringomyelia. American Pain Society Annual Meeting, Vancouver, May 6-9, 2004.

Cruz Y, Widerström-Noga EG, **Martinez-Arizala A**. Chronicity of pain associated with SCI. American Pain Society Annual Meeting, Vancouver, May 6-9, 2004

Martinez-Arizala A, Alameda G, Widerström-Noga EG. Pain and neurological dysfunction associated with post-traumatic and non-traumatic syringomyelia. American Syringomyelia Alliance Project, Key Biscayne, FL July 21-24, 2004.

Vogel R.S, **Martinez-Arizala A**, Widerström-Noga. Characteristics of chronic pain following spinal cord injury. A longitudinal study. 10th World Congress on Pain. 408, 2002.

Pattany PM, Bowen BC, Yeziarski RP, Widerström-Noga EG, **Martinez-Arizala A**, Quencer RM. Proton magnetic resonance spectroscopy of the thalamus: Evaluation of patients with chronic neuropathic pain following spinal cord injury. *Proc Int Soc Mag Reson Med* 10:897, 2002.

Pattany PM, Yeziarski PP, Widerström-Noga EG, Bowen BC, **Martinez-Arizala A**, Quencer RM. Magnetic Resonance Spectroscopy and MRI findings following spinal cord injury. *Spinal Cord Injury Pain*, 3rd IASP Research Symposium, 44-48, 2001.

Sharma KR, Cross J, Ayyar DA, **Martinez-Arizala A**, Bradley WA. Diabetic demyelinating polyneuropathy

responsive to intravenous immunoglobulin therapy. *Neurology*, 52 (Suppl 2): A128, 1999.

Jimenez O, Wieder B, Bangerter K, Dietrich WD, **Martinez-Arizala A**, Yeziarski RP, Effects of systemic hypothermia following acute traumatic spinal cord injury in the rat. *J Neurotrauma*, 1997, 14:57.

Onifer SM, Rodriguez JF, Benitez JC, Hesse DH, Kim DT, Pacheco JT, Perrone JV, Santiago DI, **Martinez-Arizala A**. Cervical spinal cord injury in the adult rat: forelimb function after intraspinal transplantation of trophic factor-treated fetal spinal cord cells. *Neuroscience Abstracts* 1994, 20:1706.

Onifer SM, Calancie B, Hesse DH, Benitez JC, Kim D, Llorente O, Perrone J, Rodriguez JF, Santiago DI, **Martinez-Arizala A**: Cervical spinal cord injury in the rat: characterization of forelimb deficits and transplantation strategies for ameliorating them. *Neuroscience Abstracts*, 1993, 19:1873.

Martinez-Arizala A, Hesse DH, Marcillo AA, Llorente O, Santiago DI, Onifer SM: A model of graded contusive cervical spinal cord injury (SCI) in rats. *Neuroscience Abstracts*, 1993, 19: 1873.

Onifer SM, Calancie B, Rodriguez JF, Hesse DH, Llorente O, Marcillo A, Santiago DI, **Martinez-Arizala A**: Characterization of forelimb dysfunction following cervical spinal cord injury in the rat. *J Neurotrauma*, 1992 9:396.

Martinez-Arizala A, Hesse DH, Marcillo AA: A survival model of focal cervical spinal cord injury in the rat. *J Neurotrauma* 1992, 9:393.

Martinez-Arizala A, Hesse D, Marcillo A: Spinal cord blood flow changes following graded contusive injuries in the rat. *Neuroscience Abstracts*, 1991, 17:723.

Madsen PW, **Martinez-Arizala A**: Spinal cord injury produced by dorsal spinal venous occlusion in the rat. *Neuroscience Abstracts*, 1991, 17:723.

Madsen PW, Prado R, Watson B, and **Martinez-Arizala A**. Ventral spinal cord ischemia model produced by photochemical laser occlusion of the anterior spinal artery. *Neuroscience Abstracts*, 1990, 16:475.

Martinez-Arizala A. Physiological effects of anesthetics in rats: Implications on CNS trauma. *Neurotrauma Society*, 1990.

Rigamonti DD, Long JB, **Martinez-Arizala A**, and Wingfield CP. Pial vessel reactivity following topical application of somatostatin. *Neuroscience Abstracts*, 1990, 16:571.

Madsen PW, Prado R, Watson B, and **Martinez-Arizala A**. Ventral spinal cord ischemia model produced by photochemical laser occlusion of the anterior spinal artery. *Neuroscience Abstracts*, 1990, 16:475.

Martinez-Arizala A, Mora J, Green B, and Hayashi N. Dorsal spinal venous occlusion model in the rat: Preliminary observations. *Neuroscience Abstracts*, 1990, 16:475.

Rigamonti DD, **Martinez-Arizala A**, Genovese RF, and Long JB. Neuroprotective effects of ketamine in a rodent model of peptide-induced spinal cord injury: Anatomical and physiological correlates.

Twenty-fifth anniversary symposium "Status of ketamine in anesthesiology", 1989.

Martinez-Arizala A, Long JB, Rigamonti DD, Kraimer JM, Echevarria EE, and Holaday JW. MK-801 fails to alter the delayed reperfusion hyperemia that occurs following spinal ischemia in the rabbit. *FASEB research conference on the Neurobiology of CNS injury*, 1989.

Rigamonti DD, **Martinez-Arizala A**, Genovese R, Holaday JW, and Long JB. MK-801 neuroprotective effects in a rodent model of peptide induced spinal cord injury: A histological study. *Neuroscience Abstracts*, 1989, 15:222.

Long JB, Rigamonti DD, and **Martinez-Arizala A**. The adenosine analogs 2-chloroadenosine (2CA) and 5'-(N-ethyl) carboxamidoadenosine (NECA) protect against dynorphin A (DYN)-induced rat spinal cord injury. *Neuroscience Abstracts*, 1989, 15:42.

Martinez-Arizala A, Rigamonti DD, Long JB, Echevarria EE, Kraimer JM, and Holaday JW. Dextromethorphan fails to improve outcome following spinal ischemia in the rabbit. *Neuroscience Abstracts*, 1989, 15:43.

Martinez-Arizala A, Long JB, Rigamonti DD, Kraimer JM, Lee S, and Holaday JW. Deteriorating stroke model of spinal ischemia in the rabbit is associated with a marked hyperemia. *Neurology*, 1989, 39 (Suppl 1): 371-372.

Long JB, Rigamonti DD, **Martinez-Arizala A**, and Holaday JW. Non-competitive N-Methyl-D-Aspartic acid receptor inhibitors prevent persistent dynorphin A-induced hindlimb paralysis in rats. *Neurotrauma Symposium*, November 1988.

Long JB, **Martinez-Arizala A**, Rigamonti DD, and Holaday JW. Noncompetitive N-methyl-D-aspartate Acid (NMDA) receptor inhibitors protect against dynorphin A (DYN)-induced spinal cord injury in rats. *ASPET*, 1988.
Long JB, **Martinez-Arizala A**, Rigamonti DD, and Holaday JW. Noncompetitive N-methyl-D-aspartate Acid (NMDA) receptor inhibitors protect against dynorphin A (DYN)-induced spinal cord injury in rats. *ASPET*, 1988.

Rigamonti DD, Mena H, Long JB, **Martinez-Arizala A**, King RA, and Holaday JW. Percussive injury to the rat spinal cord: a model of axonal damage. *Neuroscience Abstracts*, 1988, 14:621.

Long JB, de Costa B, **Martinez-Arizala A**, Tidwell RE, Dosaka K, Rice KC, and Holaday JW. Dynorphin A-induced rat hindlimb paralysis is not altered by the k opioid antagonist norbinaltorphimine. *Neuroscience Abstracts*, 1988, 14:400.

Wylie RM and **Martinez-Arizala A**. Dopamine antagonist alters the trajectory of the elbow joint but has no effect on the final position generated by monkeys pointing at visual targets. *Neuroscience Abstracts*, 1988, 14:954.

Martinez-Arizala A, Long JB, and Holaday JW. Intrathecal arginine⁸-vasopressin produces different cardiovascular responses in conscious and anesthetized animals. *Neuroscience Abstracts*, 1988, 14:916.

Martinez-Arizala A, Long JB, and Holaday JW. Somatostatin induced spinal cord dysfunction in the rat. *Ann Neurol*, 1988, 24:174.

Martinez-Arizala A, Long JB, Rigamonti DD, Kraimer JM, and Holaday JW. Effects of NMDA receptor antagonists in a model of deteriorating stroke following spinal ischemia in the rabbit. *Ann Neurol* 24:128-129, 1988.

Holaday JW, **Martinez-Arizala A**, Chen HS, and Long JB. The role of opioid peptides and thyrotropin releasing hormone in shock and spinal injury. *Sixth Mediterranean Congress of Chemotherapy*, May 1988.

Martinez-Arizala A, Long JB, and Holaday JW. Spinal cord dysfunction induced by Dynorphin A (1-13) in the rat. *Neurology*, 1988, 38:158.

Rigamonti DD, Long JB, Tortella FC, Gussio RP, **Martinez-Arizala A**, and Holaday JW. Somatosensory evoked potentials following intrathecal Dynorphin A (1-13) injection in the rat. *Neuroscience Abstracts*, 1987, 13:474.

Long JB, **Martinez-Arizala A**, Kraimer JM, and Holaday JW. Intrathecal somatostatin causes hindlimb paralysis and reduces spinal cord blood flow in rats. *Neuroscience Abstracts*, 1987, 13:1308.

Martinez-Arizala A, Long JB, and Holaday JW. Paralytic and pressor effects of intrathecal arginine vasopressin in the rat. *Society for Neuroscience Abstracts*, 1987;13:1279.

Long JB, **Martinez-Arizala A**, Johnson SH, Graeber GM, and Holaday JW. Intrathecal ARG⁸-Vasopressin reduces spinal cord blood flow in the rat. Federation Proceedings, 1987, 46:1125.

Johnson SH, Kraimer J, Long JB, **Martinez-Arizala A**, Holaday JW, and Graeber GM. Flunarexine fails to alter spinal cord blood flow or neurologic recovery in a spinal cord ischemia model in the rabbit. International Symposium on Calcium Antagonists, February 1987.

Martinez-Arizala A, Long JB, Johnson SH, Kraimer J, Graeber GM, and Holaday JW. Neuropeptide induced spinal cord injury models: effects on spinal cord blood flow. Seventh Annual AMEDD Neurology Conference, 1986, p78.

Holaday JW, Long JB, and **Martinez-Arizala A**. Opioid receptor antagonists in traumatic spinal cord injury. CNS Trauma Symposium, Nov. 1986.

Johnson SH, **Martinez-Arizala A**, Long JB, Holaday JW, and Graeber GM. Intrathecal arg-vasopressin causes reduced spinal cord blood flow in the rat. Association for Academic Surgery, Nov. 1986.

Martinez-Arizala A, Long JB, Echevarria EE, and Holaday JW. Thyrotropin releasing hormone fails to antagonize the paralytic effects of intrathecal dynorphin a(1-13) and a substance P antagonist. Society for Neuroscience Abstracts, 1986, 12:1496.

Martinez-Arizala A and McCarty GE. Narcolepsy. Four Annual Army Medical Department Neurology Conference. Ft. Sam Houston, Texas, Nov. 1983.

20. Other works accepted for publication, invited lectures:

“Spinal Cord”, Invited Faculty, Annual Meeting of the Florida Society of Neurology, Orlando, FL 2017

“Assessment and Acute Management of Spinal Cord Injury”, Invited Faculty, Academy of Neurology Annual Meeting, Toronto. CN 2009

“Assessment and Acute Management of Spinal Cord Injury”, Invited Faculty, Academy of Neurology Annual Meeting, Chicago, IL 2008

“Assessment and Acute Management of Spinal Cord Injury”, Invited Faculty, Academy of Neurology Annual Meeting, Boston, MA 2007

“Spine Neuroimaging: Clinical-Radiologic Correlation”, Course Director and Invited Faculty, American Academy of Neurology Annual Meeting, Miami Beach, FL, 2005.

“Pain Management in People with SCI”, American Kinesiotherapy Association 2005 National Conference, Miami Beach, FL, 2005.

"Pharmacological Treatment of Acute Spinal Cord Injury", Rehab Week, Whittier Rehabilitation Hospital, Whittier, Massachusetts, 1993.

"Pharmacological Treatment of Acute Spinal Cord Injury", Third Annual Spinal Cord Injury Symposium, St. Louis University, St. Louis, MO, 1992.

"Acute Spinal Cord Injury: Pathophysiology and Experimental Treatment", Spinal Cord Injury: A Team Approach to Comprehensive Management and Integrated Research, Miami, FL, 1991.

Orthopaedics and Rehabilitation Annual Seminar, Brains and Bones: Journey to Rehab, "Medical complications of spinal cord injury: Heterotopic bone and autonomic dysreflexia", Miami, FL, Oct 1991.

"Designing pharmacological agents for the treatment of acute spinal cord injury", National Spinal Cord Injury Association Convention, Tampa, FL, 1990.

"Experimental Treatment of Acute Spinal Cord Injury", National Spinal Cord Injury Association Meeting, FL, 1990.

PROFESSIONAL

21. Funded research performed:

Neural Control of Bilateral Hand, Arm, and Leg Movements after Spinal Cord Injury. Role: Co-Investigator. Craig H. Nielsen Foundation and National Institute of Neurological Disorders and Stroke. Principal Investigator: Monica Perez, Ph.D., 2014-ongoing.

Experiences of living with persistent pain after a spinal cord injury, Role: Co-Investigator, Department of Defense Grant, Principal Investigator: Eva Widerstrom-Noga, DDS, PhD., 2014-2015.

Treatment of Pain and Autonomic Dysreflexia in Spinal Cord Injury with Deep Brain Stimulation, Role: Co-Investigator, Department of Defense Grant, Principal Investigator: Jonathan Jagid, M.D., 2014- ongoing.

Sleep Disordered Breathing in Chronic SCI: A Randomized Controlled Trial of Treatment Impact on Cognition, Quality of Life, and Cardiovascular Disease. , Role: Co-Investigator, Department of Defense Grant, Principal Investigator: Shirin Shafazand, M.D.

A 17-week, Randomized, Double-Blind, Placebo Controlled, Parallel-Group, Multi-Center Trial of Pregabalin for the treatment of Chronic Central Neuropathic Pain after Spinal Cord Injury, Principal Investigator, Pfizer Sponsored Multicenter Trial, 2010-2011.

MR Spectroscopy and SCI Pain. , Role: Co-Investigator, VA Merit Grant, Principal Investigator: Eva Widerstrom-Noga, DDS, PhD., 2009- 2011

Effects of Venlafaxine on Chronic Neuropathic Pain Following Spinal Cord Injury. Role: Co-Investigator, VA Merit Grant, Principal Investigator: Eva Widerstrom-Noga, DDS, PhD., 2008-2011

Efficacy of Topiramate in the Treatment of Neuropathic Pain Associated with Spinal Cord Injury. Role: Principal Investigator. VA Center of Excellence Grant. Center Director: Marca Sipski, M.D.

A multicenter, double-blind, randomized, placebo-controlled study to assess the efficacy and tolerability of tizanidine tablets in patients suffering from spasticity resulting from spinal cord injury. Role: Co-Investigator Athena Neurosciences sponsored trial. Principal investigator: William Sheramata, M.D., 1993-1994.

Development of a survival model of cervical contusive injury in the rat. Role : Co-investigator. State of Florida Specific Appropriation #601. Principal investigator: Richard P. Bunge, M.D. : 7/01/92 - 06/30/93: \$92,725.

Study of cellular therapy in chronic spinal cord injury, Core C. Role: Principal Investigator of Subproject, NINDS 1 PO1 NS2805-03, total program project: \$2,989,241, Core C \$383,602. Principal investigator: Richard P. Bunge, M.D. 01/01/91 - 12/31/95

Effects of temperature and/or drug treatment on morphological and functional end points following spinal injury. Role: Co-Investigator , \$625,000 Department of Defense: 10/1996 - 10/1999, Principal investigator: Robert Yezierski, Ph.D.

22. Editorial Responsibilities: 02/2018 – present Editorial Boards of The Journal of Spinal Cord Medicine

23. Professional and Honorary organizations:

Chair 2012-2014	Section on Spine, American Academy of Neurology
Councilor 2002-2010	Section on Spine, American Academy of Neurology
Secretarial Appointee	Rehabilitation Research and Development Service Scientific Merit Review Board Veterans Affairs
Fellow	American Academy of Neurology
Member	International Spinal Cord Society
Member	Section on Pain, American Academy of Neurology
Member	Section on Spine, American Academy of Neurology
Member	Paralyzed Veterans of America

24. Honors and Awards:
2017 Citation of Merit Paralyzed Veterans of America

Phi Beta Kappa, Florida State University Chapter.

Omicron Delta Kappa, University of Miami Chapter.

Health Professions Scholarship, 8/1975-6/1979.

25. Post-Doctoral Fellowships: None

26. Other professional activities:

Chairman of the Convulsant Antidote for Nerve Agent Steering Committee, U.S. Army, 1988-1989.

TEACHING

27. Teaching Awards received:
07/2017 Excellence in Education Award- University of Miami/Jackson Memorial Hospital Physical Medicine and Rehabilitation Residency Program.

28. Teaching specialization:

Mechanisms of Disease Course, Neurology Section, 1994 - 1996

Neurology Clinical Clerkship, 12/1993 - 6/1996.

Spinal Cord Injury Medicine Fellowship – Director of Miami VAMC Section

Advanced Spinal Cord Injury Fellowship – Miami VAMC, Director

29. Thesis and dissertation advising/Post-doctoral student supervision:
Steven Onifer, Ph.D., Postdoctoral student, June 1992 - June 1994.

SERVICE

30. University Committee and Administrative Responsibilities:

CARF Steering Committee Chair, Miami VA Healthcare System, 2009 – Present

Member, Patient Care Council, Miami VA Healthcare System, 2009 – Present

Member Residency Review Committee, Miami VA Healthcare System, 2003 – Present

Clinical Service Chiefs Committee, Miami VA Healthcare System, 2003 – Present

Medical Executive Committee – University of Miami Hospitals and Clinics- 1995 to 2010

Member, University of Miami Animal Care and Protocol Review Committee, 1992 - 1995.

Director, Medical Student Education, Department of Neurology, University of Miami School of Medicine, 12/1993 - 06/1996.

30. Community Activities:

Laboratory Director for the Dade County Public Schools Community Laboratory Research Program, 1990 - 1995.