

CURRICULUM VITAE

Thomas J. Wilson, M.D.

EDUCATION AND TRAINING

- Post-graduate: Mayo Clinic, Rochester, MN
July 2016 – June 2017
Peripheral Nerve Surgery Fellow
Fellowship Director: Robert J. Spinner, M.D.
- University of Michigan Health System, Ann Arbor, MI
July 2009 - June 2016
Neurological Surgery Resident
Chairperson: Karin M. Muraszko, M.D.
Residency Program Director: B. Gregory Thompson, M.D.
- Graduate: Johns Hopkins University, Baltimore, MD
March 2017 - Present
Masters of Public Health (M.P.H) Candidate
- University of Nebraska Medical Center, Omaha, NE
August 2004 - May 2009
Doctor of Medicine (M.D.), *with Highest Distinction*
- Howard Hughes Medical Institute Research Training Fellow, Omaha, NE
July 2006 - June 2007
No degree awarded
Fellowship Director: Rakesh K. Singh, Ph.D.
- Undergraduate: Creighton University, Omaha, NE
August 2000 - May 2004
Bachelor of Science (B.S.) in Biology, *Summa Cum Laude*

LICENSURE AND CERTIFICATION

DEA Controlled Substance Registration, Registration Number FW6071574, Issued 06/16/2016, Expires 05/31/2019
 Medical Board of California, License 147670, Issued 03/01/2017, Expires 03/31/2019
 Minnesota Board of Medical Practice, License 60368, Issued 03/12/2016, Expires 03/31/2018
 Michigan Board of Medicine, License 4301094377, Issued 05/14/2015, Expires 01/31/2019

APPOINTMENTS AND POSITIONS

July 2017 – Present	Clinical Assistant Professor of Neurosurgery, Department of Neurosurgery, Stanford University, Stanford, CA USA
February 2017 – July 2017	Assistant Professor of Neurosurgery, Department of Neurosurgery, Mayo Clinic, Rochester, MN USA
July 2016 – June 2017	Peripheral Nerve Surgery Fellow, Department of Neurosurgery, Mayo Clinic, Rochester, MN USA
July 2009 – June 2016	House Officer, Department of Neurosurgery, University of Michigan, Ann Arbor, MI USA
August 2005 – June 2006	Medical Student Tutor, University of Nebraska Medical Center
June 2005 – August 2005	Summer Educational Fellow, University of Nebraska Medical Center, Omaha, NE USA
June 2005 – August 2005	Teaching Assistant - Anatomy, University of Nebraska Medical Center, Omaha, NE USA
September 2002 – May 2005	Phlebotomist, Nebraska Methodist Hospital, Omaha, NE USA
August 2002 – May 2003	Teaching Assistant - Organic Chemistry, Creighton University, Omaha, NE, USA

HONORS AND AWARDS

2017 AANS/CNS Section on Disorders of the Spine and Peripheral Nerves Kline Peripheral Nerve Award
 2016 McGillicuddy Leadership Award, University of Michigan Medical School
 2016 Chandler Clinical Research Award, University of Michigan Medical School
 2014 Crosby Basic Science Research Award, University of Michigan Medical School
 2014 Neurosurgery Academic Excellence Award, University of Michigan Medical School
 2009 Kenneth M. Browne, M.D. Award in Neurosurgery University of Nebraska Medical Center
 2009 Jerald R. Schenken, M.D. Outstanding Achievement in Pathology & Microbiology Award, University of Nebraska Medical Center
 2009 Alpha Omega Alpha Senior Thesis Award, University of Nebraska Medical Center
 2009 First Place Award in Poster Presentation, Medical Student, Midwest Student Biomedical Research Forum
 2009 Fourth Place Overall Poster Presentation, Midwest Student Biomedical Research Forum
 2008 UNMC College of Medicine Alumni Award for Research
 2008 First Place Award in Poster Presentation, Medical Student, Midwest Student Biomedical Research Forum
 2008 Third Place Overall Poster Presentation, Midwest Student Biomedical Research Forum

2007 Elected to Alpha Omega Alpha, University of Nebraska Medical Center
2007 Third Place Overall Poster Presentation, National Student Research Forum
2007 Fourth Place Award in Poster Presentation, Medical Student, Midwest Student Biomedical Research Forum
2004 Department of Biology Outstanding Achievement Award, Creighton University
2003 Dr. John F. Sheehan Scholarship for excellence in biology, Creighton University

MEMBERSHIPS AND ORGANIZATIONS

2009-present Congress of Neurological Surgeons (CNS), Transitional Member
2009-present American Association of Neurological Surgeons (AANS), Transitional Member
2007-present Alpha Omega Alpha Honor Medical Society
2002-present Phi Sigma Tau International Philosophy Honors Society

GRANTS AND FUNDING

2013-2014 NIH Ruth L. Kirschstein National Research Service Award T32 Training Grant - Therapeutic Manipulation of Glioma Stem Cell Differentiation States, Primary Investigator
2013-2014 Motor City Golf Classic Grant – Glioma Stem Cells and Implications for Therapeutic Development, Primary Investigator
2013-2014 Motor City Golf Classic Grant – Development and Evaluation of a Minimally Invasive Spine Simulator, Co-Investigator
2012-2013 Motor City Golf Classic Grant – The origin of gliomas and the implications for therapeutic intervention, Primary Investigator

RESEARCH PUBLICATIONS AND PRESENTATIONS

Peer Reviewed Publications

1. **Wilson TJ***, Howe BM*, Spinner RJ, and Krych AJ. Imaging Characteristics Predict Operative Difficulty Mobilizing the Sciatic Nerve for Proximal Hamstring Repair. (2017) *Neurosurgery*. Epub ahead of print. PMID: 29145673 *Equal contribution
2. **Wilson TJ**, Spinner RJ, and Krych AJ. Surgical Approach Impacts Posterior Femoral Cutaneous Nerve Outcomes Following Proximal Hamstring Repair. (2017) *Clin. J. Sport Med.* In press.
3. Chang KWC, **Wilson TJ**, Popadich M, Brown S, Chung K, and Yang LJS. Oberlin Transfer Improves Early Supination Compared to Nerve Grafting in Neonatal Brachial Plexus Palsy. (2017) *J. Neurosurg. Pediatr.* Epub ahead of print. PMID: 29219789
4. **Wilson TJ**, Kleiber GM, Nunley RM, Mackinnon SE, and Spinner RJ. Distal Peroneal Nerve Decompression after Sciatic Nerve Injury Secondary to Total Hip Arthroplasty. (2017) *J. Neurosurg.* In press.

5. **Wilson TJ***, Howe BM*, Stewart SA, Spinner RJ, and Amrami KK. Clinicoradiologic Features of Intra-neural Perineuriomas Obviate the Need for Tissue Diagnosis. (2017) *J. Neurosurg.* Epub ahead of print. PMID: 29192862 *Equal contribution
6. **Wilson TJ** and Spinner RJ. Selective Cervical Denervation for Cervical Dystonia: Modification of the Bertrand Procedure. (2017) *Oper. Neurosurg.* Epub ahead of print. PMID: 29106650
7. **Wilson TJ**, Spinner RJ, Mohan R, Gibbs CM, and Krych AJ. Sciatic nerve injury following proximal hamstring avulsion and repair. (2017) *Orthop. J. Sports Med.* 5:eCollection 2017. PMID: 28758137
8. **Wilson TJ**, Amrami KK, and Spinner RJ. Superficial Ulnar Nerve Articular Branch: More than Arcane Trivia. (2017) *Clin. Anat.* 30:567-568. PMID: 28247942
9. **Wilson TJ***, Hebert-Blouin MN*, Murthy NS, Amrami KK, and Spinner RJ. Recognition of peroneal intra-neural ganglia in an historical cohort with “negative” MRIs. (2017) *Acta Neurochir.* 159:925-930. PMID: 28258311 *Equal contribution
10. **Wilson TJ**, Rock MG, and Spinner RJ. Technique for Primary and Re-do Surgery for Peroneal Intra-neural Ganglion Cysts. (2017) *Oper. Neurosurg.* Epub ahead of print. PMID: 28520989
11. **Wilson TJ**, Franz E, Vollmer CF, Chang KWC, Upadhyaya C, Park P, and Yang LJ-S. Patient-perceived surgical indication influences patient expectations of surgery for degenerative spinal disease. (2017) *Clin. Neurol. Neurosurg.* 157:11-16. PMID: 28359906
12. Himes BT, **Wilson TJ**, Maldonado AA, Murthy NS, and Spinner RJ. Delayed compression of the common peroneal nerve in the setting of a rotational lateral gastrocnemius flap: a case report. (2017) *J. Neurosurg.* Epub ahead of print. PMID: 28753118
13. **Wilson TJ**, Chang KWC, and Yang LJ-S. Prediction Algorithm for Surgical Intervention in Neonatal Brachial Plexus Palsy. (2017) *Neurosurgery.* Epub ahead of print. PMID: 28419287
14. **Wilson TJ**, Hebert-Blouin MN, Murthy NS, Garcia JJ, Amrami KK, and Spinner RJ. The Nearly Invisible Intra-neural Cyst: A New and Emerging Part of the Spectrum. (2017) *Neurosurg. Focus.* 42:E10. PMID: 28245669
15. Henning PT, **Wilson TJ**, Willsey M, John J, Popadich M, and Yang LJS. Pilot Study of Intra-operative Ultrasound-Guided Surgical Instrument Placement for Surgical Nerve Transection for Peripheral Nerve Pain Syndromes. (2017) *Neurosurg. Focus.* 42:E6. PMID: 28245671

16. Granger A, Sardi JP, Iwanaga J, **Wilson TJ**, Yang LJ-S, Loukas M, Oskouian RJ, and Tubbs RS. Osborne's Ligament: A Review of its History, Anatomy and Surgical Importance. (2017) *Cureus*. 9:e1080. PMID: 28405530
17. Willsey M, **Wilson TJ**, Henning PT, and Yang LJ-S. Intraoperative Ultrasound for Peripheral Nerve Applications. (2017) *Neurosurg. Clin. N. Am.* 28:623-632. PMID: 28917290
18. Linzey JR, **Wilson TJ**, Sullivan SE, Thompson BG, and Pandey AS. Frontal Sinus Breach During Routine Frontal Craniotomy Significantly Increases the Risk of Epidural Abscess Formation: 10 Year Retrospective Analysis. (2017) *Neurosurgery*. Epub ahead of print. PMID: 28327980
19. **Wilson TJ**, Zamler DB, Doherty R, Castro MG, and Lowenstein PR. Reversibility of glioma stem cells' phenotypes explains their complex in vitro and in vivo behavior. Discovery of a novel neurosphere-specific target, cGMP-dependent protein kinase 1, using the genomic landscape of human glioma stem cells as a discovery tool. (2016) *Oncotarget*. 7:63020-63041. PMID: 27564115
20. Fletcher JJ, **Wilson TJ**, Rajajee V, Davidson SB, and Walsh JC. Changes in Therapeutic Intensity Level Following Airway Pressure Release Ventilation in Severe Traumatic Brain Injury. (2016) *J. Intensive Care Med*. Epub ahead of print. PMID: 27651443
21. Somashekar DK, **Wilson TJ**, DiPietro MA, Joseph JR, Ibrahim M, Yang LJ-S, and Parmar HA. The Current Role of Diagnostic Imaging in the Preoperative Workup for Refractory Neonatal Brachial Plexus Palsy. (2016) *Childs Nerv. Syst.* 32:1393-1397 PMID: 27179536
22. Johnson K, Al-Holou WN, Anderson R, **Wilson TJ**, Karnati T, Ibrahim M, Garton HJL, and Maher CO. Morphometric Analysis of the Developing Pediatric Cervical Spine. (2016) *J. Neurosurg. Pediatr.* 18:377-389 PMID: 27231821
23. **Wilson TJ**, McCoy KE, Al-Holou WN, Molina SL, Smyth MD, Sullivan SE. Comparison of the accuracy and proximal shunt failure rate of freehand placement versus intraoperative guidance in parietooccipital ventricular catheter placement. (2016) *Neurosurg. Focus*. 41:E10 PMID: 27581306
24. Jacobson JA, **Wilson TJ**, and Yang LJ-S. Sonography of Common Peripheral Nerve Disorders with Clinical Correlation. (2016) *J. Ultrasound Med.* 35:683-693 PMID: 26931790
25. **Wilson TJ**, Tubbs RS, and Yang LJ-S. The anconeus epitrochlearis muscle may protect against the development of cubital tunnel syndrome: a preliminary study. (2016) *J. Neurosurg*. Epub ahead of print. PMID: 26871208

26. Fletcher JJ, **Wilson TJ**, Rajajee V, Stetler Jr. WR, Jacobs TL, Sheehan KM, and Brown DL. A Randomized Trial of Central Venous Catheter Type and Thrombosis in Critically Ill Neurologic Patients. (2016) *Neurocrit. Care.* 25:20-28 PMID: 26842716
27. Chang KWC, Ankumah NA, **Wilson TJ**, Yang LJ-S, and Chauhan SP. Persistence of Neonatal Brachial Plexus Palsy (NBPP) Associated with Maternally Reported Route of Delivery: Review of 387 Cases. (2016) *Am. J. Perinat.* 33:765-769 PMID: 26890435
28. Guan Z, **Wilson TJ**, Jacobson JA, Hollon TC, and Yang LJ-S. Delayed Sciatic Nerve Injury Resulting from Myositis Ossificans Traumatica (2016) *PM R.* 8:484-487 PMID: 26548968
29. **Wilson TJ***, Chang KWC*, Chauhan SP, and Yang LJS. Peripartum and Neonatal Factors Associated with the Persistence of Neonatal Brachial Plexus Palsy at 1 Year: A Review of 382 Cases. (2016) *J. Neurosurg. Pediatr.* 17:618-624 PMID: 26799409
*Equal contribution.
30. **Wilson TJ**, Chang KWC, Chung KC, and Yang LJ-S. Depression and Anxiety in Traumatic Brachial Plexus Injury Patients are Associated with Reduced Motor Outcome Following Surgical Intervention for Restoration of Elbow Flexion. (2016) *Neurosurgery.* 78:844-850 PMID: 26516821
31. Ray WZ, Chang J, Hawasli A, **Wilson TJ**, and Yang LJ-S. Motor Nerve Transfers: A Comprehensive Review. (2016) *Neurosurgery.* 78:1-26. PMID: 26397751
32. **Wilson TJ**, Joseph JR, Dillman J, Heider A, and Yang LJS. Evaluation and management of fibrofatty tumors of the extremities. (2016) *J. Neurosurg. Pediatr.* 17:66-69. PMID: 26451716
33. Stetler WR, Griauzde J, Saadeh Y, **Wilson TJ**, Al-Holou WN, Chaudhary N, Thompson BG, Pandey AS, and Gemmete JJ. Is intensive care monitoring necessary after coil embolization of unruptured intracranial aneurysms? (2016) *J. Neurointerv. Surg.* Epub ahead of print. PMID: 27382122
34. Pandey AS, Gemmete JJ, **Wilson TJ**, Chaudhary N, Thompson BG, Morgenstern LB, and Burke J. High Subarachnoid Hemorrhage Patient Volume Associated with Lower Mortality and Better Outcomes. (2015) *Neurosurgery.* 77:462-470. PMID: 26110818
35. Chen KC, **Wilson TJ**, Stetler Jr. WR, Davis MC, Giles DA, Kahn EN, Chaudhary, Gemmete JJ, Thompson BG, and Pandey AS. Management of recurrent aneurysms following endovascular therapy. (2015) *J. Clin. Neurosci.* 22:1901-1906. PMID: 26256068
36. Stetler Jr. WR*, **Wilson TJ***, Al-Holou WN, Khan A, Thompson BG, and Pandey AS. Intraoperative angiography does not lead to increased rates of surgical site infections. (2015) *J. Neurointerv. Surg.* 7:744-747. PMID: 25155479 *Equal contribution.

37. **Wilson TJ***, Saadeh Y*, Stetler Jr. WR, Pandey AS, Gemmete JJ, Chaudhary N, Thompson BG, and Fletcher JJ. Transfer time to a high volume center for patients with subarachnoid hemorrhage does not affect outcomes. (2014) *J. Stroke Cerebrovasc. Dis.* 24:416-423. PMID: 25497722 *Equal contribution
38. **Wilson TJ**, Stetler Jr. WR, Davis MC, Giles DA, Khan A, Chaudhary N, Gemmete JJ, Xi G, Thompson BG, and Pandey AS. Intraventricular hemorrhage is associated with early hydrocephalus, symptomatic vasospasm, and poor outcome in aneurysmal subarachnoid hemorrhage. (2014) *J. Neurol. Surg. A Cent. Eur. Neurosurg.* 76:126-132. PMID: 25545809
39. Kashlan ON, **Wilson TJ**, Chaudhary N, Gemmete JJ, Stetler Jr. WR, Dunnick NR, Thompson BG, and Pandey AS. Reducing Cost While Maintaining Quality in Endovascular Neurosurgical Procedures. (2014) *J. Neurosurg.* 121:1071-1076. PMID: 25170667
40. Castro MG, Candolfi M, **Wilson TJ**, Calinescu A, Paran C, Kamran N, Koschmann C, Moreno-Ayala MA, Assi H, and Lowenstein PR. Adenoviral Vector-Mediated Gene Therapy for Gliomas: Coming of Age. (2014) *Expert Opin. Biol. Ther.* 14:1241-1257. PMID: 24773178
41. Griauzde J, Gemmete JJ, Chaudhary N, **Wilson TJ**, and Pandey AS. Large volume blood patch to multiple sites in the epidural space through a single catheter access site for treatment of spontaneous intracranial hypotension. (2014) *AJNR Am. J. Neuroradiol.* 35:1841-1846. PMID: 24788127
42. Fletcher JJ, Kade A, Sheehan KM, and **Wilson TJ**. A Case-Cohort Study using Propensity Score Matching to Evaluate the Effects of Mannitol on Venous Thromboembolism. (2014) *J. Clin. Neurosci.* 21:1323-1328. PMID: 24685012
43. Cools MJ, Al-Holou WN, Stetler Jr. WR, **Wilson TJ**, Muraszko KM, Ibrahim M, La Marca F, Garton HJL, and Maher CO. Filum Terminale Lipomas: Imaging prevalence, natural history, and conus position. (2014) *J. Neurosurg. Pediatr.* 13:559-567. PMID: 24628511
44. Stetler Jr. WR, **Wilson TJ**, Al-Holou WN, Chaudhary N, Gemmete JJ, Thompson BG, and Pandey AS. Conventional endovascular treatment of small intracranial aneurysms is not associated with additional risks compared to treatment of larger aneurysms. (2014) *J. Neurointerv. Surg.* 7:262-265. PMID: 24623836
45. **Wilson TJ**, Pandey AS, Stetler Jr. WR, Davis MC, Giles D, Chaudhary N, Gemmete JJ, and Thompson BG. Dual antiplatelet therapy plus post-operative heparin and dextran is safe and effective in reducing embolic strokes during aneurysm coiling. (2014) *Acta Neurochir.* 156:855-859. PMID: 24595538

46. Mikhaylov Y, **Wilson TJ**, Rajajee V, Thompson BG, Maher CO, Sullivan SE, Jacobs TL, Kocan MJ, and Pandey AS. Efficacy of Antibiotic-Impregnated External Ventricular Drains in Reducing Ventriculostomy-Associated Infections: Single Institution Retrospective Analysis. (2014) *J. Clin. Neurosci.* 21:765-768 PMID: 24411330
47. Fletcher JJ, Rajajee V, **Wilson TJ**, and Zahuranec DB. Is Early Clinical Evidence of Autonomic Shift Predictive of Infection after Aneurysmal Subarachnoid Hemorrhage (2013) *J. Stroke Cerebrovasc. Dis.* 23:1062-1068. PMID: 24189451
48. Simonato M, Bennett J, Boulis NM, Castro MG, Fink DJ, Goins WF, Gray SJ, Lowenstein PR, Vandenberghe LH, **Wilson TJ**, Wolfe JH, and Glorioso JC. Progress in gene therapy for neurological disorders (2013) *Nat. Rev. Neurol.* 9:277-291 PMID: 23609618
49. **Wilson TJ***, Davis MC*, Stetler Jr. WR, Giles D, Chaudhary N, Gemmete JJ, Thompson BG, and Pandey AS. Endovascular Treatment for Aneurysmal Subarachnoid Hemorrhage in the Ninth Decade of Life and Beyond. (2013) *J. Neurointerv. Surg.* 6:175-177 PMID: 23535264 *Equal contribution
50. **Wilson TJ**, Stetler Jr. WR, Al-Holou WN, Sullivan SE, and Fletcher JJ. Management of intracranial hemorrhage in patients with left ventricular assist devices. (2013) *J. Neurosurg.* 118:1063-1068 PMID: 23451903
51. Wilkinson DA, **Wilson TJ**, Stetler Jr. WR, and Pandey AS. Subarachnoid haemorrhage with bilateral intracranial vertebral artery dissecting aneurysms treated by staged endovascular stenting. (2013) *BMJ Case Reports.* Epub. PMID: 23417929
52. **Wilson TJ**, McKean EL, Barkan AL, Chandler WF, and Sullivan SE. Repeat endoscopic transsphenoidal surgery for acromegaly: remission and complications. (2013) *Pituitary* 16:459-464. PMID: 23307479
53. **Wilson TJ**, Stetler Jr. WR, Al-Holou, WN, and Sullivan SE. Comparison of the accuracy of ventricular catheter placement using free-hand placement, ultrasound guidance, and stereotactic neuronavigation. (2013) *J. Neurosurg.* 119:66-70 PMID: 23330995
54. **Wilson TJ**, Stetler Jr. WR, and Fletcher JJ. Comparison of catheter-related large vein thrombosis in centrally inserted versus peripherally inserted central venous lines in the neurological intensive care unit. (2012) *Clin. Neurol. Neurosurg.* 115:879-892 PMID: 22948189
55. Stetler Jr. WR, Chaudhary N, **Wilson TJ**, and Pandey AS. Indirect carotid-cavernous fistula following minor head trauma treated with incomplete radiographic endovascular occlusion. (2012) *BMJ Case Reports.* Epub. PMID: 23008364

56. Than KD, Rohatgi P, **Wilson TJ**, Wang AC, and Thompson BG. Perioperative Management of a Neurosurgical Patient Requiring Antiplatelet Therapy. (2012) *J. Clin. Neurosci.* 19:1316-1320 PMID: 22784876
57. **Wilson TJ**, Than KD, Parmar HA, Lieberman AP, Valdivia JM, and Sullivan SE. Pineal Region Myeloid Sarcoma (2012) *J. Clin. Neurosci.* 19:1037-1039 PMID: 22560847
58. **Wilson TJ** and Heth JA. Regression of a Meningioma During Paclitaxel and Bevacizumab Therapy for Breast Cancer. (2012) *J. Clin. Neurosci.* 19:468-469. PMID: 22245272
59. Al-Holou WN, Khan A, **Wilson TJ**, Stetler Jr. WR, Shaw G, and Maher C. Incidental findings on cranial imaging in nonagenarians. (2011) *Neurosurg. Focus.* 31:1-6. PMID: 22133167
60. **Wilson TJ**, Brown DL, Meurer WJ, Stetler Jr. WR, Wilkinson DA, and Fletcher JJ. Risk Factors Associated With Peripherally Inserted Central Venous Catheter-Related Large Vein Thrombosis in Critically Ill Neurological Patients. (2011) *Intensive Care Med.* 38:272-278. PMID: 22113818
61. **Wilson TJ**, Orringer DA, Patil PG, and Sullivan SE. An L2 Burst Fracture and Cauda Equina Syndrome due to Tetanus. (2011) *J. Neurosurg. Spine.* 16:82-85. PMID: 21854128.
62. Fletcher J, Stetler Jr. WR, and **Wilson TJ**. The Clinical Significance of PICC Related Large Vein Thrombosis. (2011) *Neurocrit. Care.* 15:454-460. PMID: 21541826.
63. Than KD, Wang AC, Rahman SU, **Wilson TJ**, Valdivia JM, Park P, LaMarca F. Complication avoidance and management in anterior lumbar interbody fusion. (2011) *Neurosurg. Focus.* 31:E6. PMID 21961869.
64. **Wilson TJ**, Than KD, Stetler Jr. WR, and Heth JA. Non-ketotic hyperglycemic chorea-hemiballismus can mimic basal ganglia hemorrhage. (2011) *J. Clin. Neurosci.* 18:1560-1561. PMID: 21871808
65. Toledo MM, **Wilson TJ**, Dashti SR, McDougall CG, and Spetzler RF. Dural Arteriovenous Fistula Associated with Superior Sagittal Sinus Occlusion Secondary to Invasion by a Parafalcine Meningioma: Case Report. (2010) *Neurosurgery.* 67:205-207. PMID: 20559067
66. **Wilson TJ**, Nannuru KC, Futakuchi M, and Singh RK. Cathepsin G-mediated enhanced TGF- β signaling promotes angiogenesis via upregulation of VEGF and MCP-1. (2010) *Cancer Lett.* 288:162-169. PMID: 19646811
67. Nannuru KC, Futakuchi M, Sadanandam A, **Wilson TJ**, Varney ML, Myers KJ, Li X, Marcusson EG, and Singh RK. Enhanced expression and shedding of receptor activator

of NF-kappaB ligand during tumor-bone interaction potentiates mammary tumor-induced osteolysis (2009) *Clin. Exp. Metastasis*. 26:797-808. PMID: 19590968

68. **Wilson TJ**, Nannuru KC, and Singh RK. Cathepsin G-mediated Activation of Pro-MMP9 at the Tumor-Bone Interface Promotes TGF- β Signaling and Bone Destruction. (2009) *Mol. Cancer Res.* 7:1224-1233. PMID: 19671689
69. **Wilson TJ** and Singh RK. Cathepsin G recruits osteoclast precursors via proteolytic activation of PAR-1. (2009) *Cancer Res.* 69:3188-3195. PMID: 19293192
70. **Wilson TJ**, Nannuru K, Futakuchi M, Sadanandam A, and Singh RK. Cathepsin G enhances mammary tumor-induced osteolysis by generating soluble receptor activator of NF- κ B ligand. (2008) *Cancer Res.* 68:5803-5811. PMID: 18632634
71. **Wilson TJ** and Singh RK. Proteases as modulators of tumor-stromal interaction: Primary tumors to bone metastases. (2008) *Biochim. Biophys. Acta.* 1785:85-95. PMID: 18082147

Manuscripts Submitted/In Preparation for Peer Review

1. **Wilson TJ**, Mauermann ML, Rock MG, and Spinner RJ. Outcomes Following Surgery for Peroneal Intra-neural Ganglion Cysts. (2017) Submitted
2. Smith BW, Daunter AK, Yang LJS, and **Wilson TJ**. An Update on the Management of Neonatal Brachial Plexus Palsy-Replacing Old Paradigms: A Review. (2017) Submitted

Peer Reviewed Correspondence

1. **Wilson TJ** and Spinner RJ. Commentary: Cubital tunnel syndrome caused by intra-neural or extra-neural ganglion cysts-case report and review of the literature: Ulnar nerve ganglion cysts: Drawing closer to the shore (2017) *J. Plast. Reconstr. Aesthet. Surg.* Epub ahead of print. PMID: 28579179
2. **Wilson TJ**, Amrami KK, and Spinner RJ. Intra-neural Ganglion Cysts: A Predictable Method to their Madness. (2017) *Ann. Phys. Rehabil. Med.* Epub ahead of print. PMID: 28347689
3. Stetler Jr. WR, **Wilson TJ**, Al-Holou WN, Sullivan SE, and Fletcher JJ. Intracranial hemorrhage and left ventricular assist devices. Author reply. (2013) *J. Neurosurg.* 119:824. PMID: 24137782

Edited Books/Volumes

1. Peripheral Nerve Surgery Casebook in Neurosurgery by Example. **Wilson TJ** and Yang LJ-S, volume editors. Selden N, series editor. Oxford University Press. In preparation.

Book/Online Chapters

1. **Wilson TJ** and Spinner RJ. Complications of Surgery for Peripheral Nerve Tumors and Nerve Injuries. In: Nanda A, editor. *Complications in Neurosurgery*, 1st ed. Elsevier. In production.
2. **Wilson TJ** and Yang LJ-S. Obstetric Brachial Plexus Lesions: Clinical Presentation and Assessment. In: Socolovsky M, Rasulic L, Garozzo D, and Midha R, editors. *Manual of Peripheral Nerve Surgery: From the Basics to Complex Procedures*, 1st ed. Thieme. In production.
3. **Wilson TJ** and Spinner RJ. Peroneal Nerve Entrapment. In: Wilson TJ and Yang LJ-S, volume editors, Selden N, series editor. *Peripheral Nerve Surgery Casebook in Neurosurgery by Example*. Oxford University Press. In production.
4. Popadich M and **Wilson TJ**. Peripheral Nerve Biopsy. In: Wilson TJ and Yang LJ-S, volume editors, Selden N, series editor. *Peripheral Nerve Surgery Casebook in Neurosurgery by Example*. Oxford University Press. In production.
5. **Wilson TJ** and Yang LJ-S. Specific Challenges in Brachial Plexus Surgery. In: Haastert-Talini K, Antoniadis G, and Assmus H, editors. *Modern Concepts of Peripheral Nerve Repair*. Springer. In production.
6. **Wilson TJ**, Jacobson JA, and Yang LJ-S. Ulnar Neurolysis for Cubital Tunnel Syndrome. In: Wolfla C and Resnick D, editors. *Neurosurgical Operative Atlas: Spine and Peripheral Nerves*. Thieme Publishers. In production.
7. **Wilson TJ**, Yang LJ-S, and Spinner RJ. Masses of the Peripheral Nervous System. In: Kay S, Wilks D, and McCombe D, editors. *Oxford Textbook of Plastic and Reconstructive Surgery*. Oxford University Press. In production.
8. Popadich M, **Wilson TJ**, and Yang LJ-S. In: Bader MK, Littlejohns LR, and Olson DWM, editors. *AANN Core Curriculum for Neuroscience Nursing*, 6th ed. *Peripheral Nerve Disorders*. In production.
9. **Wilson TJ** and Yang LJ-S. Surgical Treatment of Brachial Plexus Birth Palsy – An Editorial. In: Bendok B, Ghogawala Z, El Tecle N, Ragel B, Asthagiri A and Resnick D, editors. *CNS Essential Papers in Neurosurgery*. In press.
10. **Wilson TJ** and Muraszko KM. Tight Filum Terminale. In: Cohen A, editor. *Pediatric Neurosurgery: Tricks of the Trade*. Thieme, 2015, pp. 274-279.
11. **Wilson TJ**, Candolfi M, Assi H, Moreno Ayala MA, Mineharu Y, Hervey-Jumper SL, Lowenstein PR, and Castro MG. Immunotherapies for brain cancer: from preclinical models to human trials. In: Hayat MA, editor. *Tumors of the Central Nervous System, Volume 13*. Springer, 2014, pp. 239-251.

12. **Wilson TJ**, Camelo-Piragua S, Heth JA. Tumors of the skull base. In: Greenamyre JT, editor-in-chief. MedLink Neurology. MedLink Corporation. Available at www.medlink.com

Recurring Contributions

1. Ray WZ and **Wilson TJ**. The Learning Corner: AANS/CNS Joint Section of Disorders of the Spine and Peripheral Nerves Newsletter. October 2015 - Present

Peer Reviewed Abstracts/Presentations

1. **Wilson TJ**, Chang KWC, and Yang LJ-S. Prediction Algorithm for Surgical Intervention in Neonatal Brachial Plexus Palsy. (2017) The 33rd Annual Meeting of the Section of Disorders of the Spine and Peripheral Nerves Spine Summit 2017, Las Vegas, NV. Presented by **Thomas J. Wilson**
2. **Wilson TJ**, Krych A, and Spinner RJ. Neurologic Outcomes following Proximal Hamstring Avulsion and Repair. (2017) The 33rd Annual Meeting of the Section of Disorders of the Spine and Peripheral Nerves Spine Summit 2017, Las Vegas, NV. Presented by **Thomas J. Wilson**
3. Henning PT, **Wilson TJ**, Willsey M, John J, Popadich M, and Yang LJ-S. Intra-operative Localization of Peripheral Nerves using Ultrasound-guided Instrument Placement in Patients with Peripheral Nerve Pain Syndromes. (2017) The 33rd Annual Meeting of the Section of Disorders of the Spine and Peripheral Nerves Spine Summit 2017, Las Vegas, NV. Presented by Matthew Willsey
4. **Wilson TJ**, Tubbs RS, and Yang LJ-S. The Anconeus Epitrochlearis Muscle may Protect against Development of Cubital Tunnel Syndrome. (2016) 84th American Association of Neurological Surgeons Annual Scientific Meeting, Chicago, IL. Presented by **Thomas J. Wilson**
5. **Wilson TJ**, Chang KWC, and Yang LJ-S. Depression is Associated with Reduced Motor Outcome Following Brachial Plexus Reconstruction. (2015) Congress of Neurological Surgeons Annual Meeting, New Orleans, LA. Presented by **Thomas J. Wilson**
6. Linzey J, **Wilson TJ**, Sullivan SE, Thompson BG, and Pandey AS. Frontal Sinus Breach During Routine Frontal Craniotomy Significantly Increases the Risk of Epidural Abscess Formation: 10 Year Retrospective Analysis. (2015) Congress of Neurological Surgeons Annual Meeting, New Orleans, LA. Presented by Joseph Linzey
7. Al-Holou WN, Cools M, Stetler Jr WR, **Wilson TJ**, Ibrahim M, and Maher CO. The Natural History of Filum Terminale Lipomas. (2013) 81st American Association of Neurological Surgeons Annual Scientific Meeting, New Orleans, LA. Presented by Wajid N. Al-Holou

8. **Wilson TJ**, McKean EL, Barkan AL, Chandler WF, and Sullivan SE. Repeat endoscopic trans-sphenoidal surgery for acromegaly: remission and complications. (2012) North American Skull Base Society 23rd Annual Meeting, Miami, FL. Presented by Stephen E. Sullivan
9. **Wilson TJ**. The role of Cathepsin G during tumor-stromal interaction in mammary tumor-induced osteolysis. (2009) University of Nebraska Medical Center Pathology and Microbiology Graduate Student Seminar, Omaha, NE. Presented by **Thomas J. Wilson**
10. **Wilson TJ**, Nannuru K, Futakuchi M, Sadanandam A, and Singh RK. Cathepsin G Enhances Mammary Tumor-Induced Osteolysis via Generation of sRANKL. (2008) International Student Research Forum, Omaha, NE. Presented by **Thomas J. Wilson**
11. **Wilson TJ**, Futakuchi M, Sadanandam A, Nannuru K, and Singh RK. Cathepsin G promotes mammary tumor-induced osteolysis via generation of soluble RANKL. (2007) Howard Hughes Medical Institute Annual Meeting of the Fellows, Chevy Chase, MD. Presented by **Thomas J. Wilson**

Peer Reviewed Abstracts/Posters

1. **Wilson TJ**, Stewart SA, Howe BM, Spinner RJ, and Amrami KK. The Presence of Newly Defined Classical Features of Intraneural Perineurioma May Obviate the Need for Fascicular Biopsy and Pathologic Diagnosis. (2017) International Society for Magnetic Resonance in Medicine 25th Annual Meeting, Honolulu, HI.
2. **Wilson TJ**, Franz E, Vollmer CF, Chang KWC, Upadhyaya C, Park P, and Yang LJ-S. Patient Perceptions Regarding Indications for Spinal Surgery for Degenerative Spine Disease. (2015) Congress of Neurological Surgeons Annual Meeting, New Orleans, LA.
3. **Wilson TJ**, Stetler Jr. WR, Thompson BG, and Pandey AS. Uncomplicated Elective Coiling of Intracranial Aneurysms Does Not Require Routine Intensive Care Unit Admission Post-operatively. (2015) 83rd American Association of Neurological Surgeons Annual Scientific Meeting, Washington D.C.
4. Chen KS, **Wilson TJ**, Stetler Jr. WR, Davis MC, Giles DA, Kahn EN, Chaudhary N, Gemmete JJ, Thompson BG, and Pandey AS. Management of recurrent aneurysms following endovascular therapy: reintervention or observation? (2015) 83rd American Association of Neurological Surgeons Annual Scientific Meeting, Washington D.C.
5. Saadeh Y, Al-Holou WN, **Wilson TJ**, Stetler Jr. WR, Guivatchian T, Pandey AS, and Thompson BG. Shunt placement in aneurysmal subarachnoid hemorrhage: Is gastrostomy tube placement associated with an increased shunt infection rate? (2014) 82nd American Association of Neurological Surgeons Annual Scientific Meeting, San Francisco, CA.

6. Khan A, Al-Holou WN, Stetler Jr. WR, **Wilson TJ**, and Maher CO. Presentation and Natural History of Spinal Arachnoid Cysts. (2014) 82nd American Association of Neurological Surgeons Annual Scientific Meeting, San Francisco, CA.
7. Saadeh Y, Al-Holou WN, **Wilson TJ**, Stetler Jr. WR, Sullivan SE, and Maher CO. Traumatic intracranial hemorrhage: Factors associated with recurrent hemorrhage. (2014) 82nd American Association of Neurological Surgeons Annual Scientific Meeting, San Francisco, CA.
8. **Wilson TJ**, Stetler Jr. WR, Davis MC, Giles D, Chaudhary N, Gemmete JJ, Xi G, Thompson BG, and Pandey AS. Early hydrocephalus is associated with poor outcome and vasospasm in aneurysmal subarachnoid hemorrhage. (2013) Congress of Neurological Surgeons Annual Meeting, San Francisco, CA.
9. **Wilson TJ**, Stetler Jr. WR, Davis MC, Giles D, Chaudhary N, Gemmete JJ, Thompson BG, and Pandey AS. Comparison of recurrence rates between intracranial bifurcation aneurysms with and without stent-assistance. (2013) Congress of Neurological Surgeons Annual Meeting, San Francisco, CA.
10. Boomsaad MJ, **Wilson TJ**, Rooney D, Sanz-Guerero J, Tai BLJ, and Sullivan SE. Development and Evaluation of a Minimally Invasive Spine Simulator. (2013) Congress of Neurological Surgeons Annual Meeting, San Francisco, CA.
11. Davis MC, **Wilson TJ**, Stetler Jr WR, Giles D, Al-Holou WN, Chaudhary N, Gemmete JJ, Thompson BG, and Pandey AS. Endovascular Treatment for Aneurysmal Subarachnoid Hemorrhage in the 9th Decade of Life and Beyond. (2013) 81st American Association of Neurological Surgeons Annual Scientific Meeting, New Orleans, LA.
12. **Wilson TJ**, Davis MC, Pandey AS, Stetler Jr WR, Chaudhary N, Gemmete JJ, and Thompson BG. Dual anti-platelet therapy plus post-operative heparin and dextran during elective aneurysm coiling is safe and reduces embolic events. (2013) 81st American Association of Neurological Surgeons Annual Scientific Meeting, New Orleans, LA.
13. Kashlan ON, Newcom M, **Wilson TJ**, Stetler W, and Pandey AS. The Effect of Cost Cutting Measures in Endovascular Procedures. (2013) 81st American Association of Neurological Surgeons Annual Scientific Meeting, New Orleans, LA.
14. **Wilson TJ**, Davis MC, Pandey AS, Stetler Jr WR, Chaudhary N, Gemmete JJ, and Thompson BG. Dual anti-platelet therapy plus post-operative heparin and dextran during elective aneurysm coiling is safe and reduces embolic events. (2013) International Stroke Conference, Honolulu, HI.
15. Al-Holou WN, Stetler Jr WR, **Wilson TJ**, McKean EL, and Sullivan SE. Skull base plasmacytomas: surgical approach and review of management. (2012) North American Skull Base Society 23rd Annual Meeting, Miami, FL.

16. Kroeker AD, Kang SY, **Wilson TJ**, Sullivan SE, and McKean EL. Patient and Perioperative Factors Influencing Blood Loss in Endoscopic Transsphenoidal Resection of Pituitary Tumors. (2012) North American Skull Base Society 23rd Annual Meeting, Miami, FL.
17. **Wilson TJ**, Nannuru KC, and Singh RK. TGF- β signaling is enhanced via cathepsin G-mediated activation of pro-mmp9 at the tumor-bone interface. (2009) The 40th Annual Midwest Student Biomedical Research Forum, Omaha, NE.
18. **Wilson TJ** and Singh RK. Cathepsin G regulates recruitment of osteoclast precursors via activation of protease activated receptor-1 in osteolytic bone metastases. (2008) The 39th Annual Midwest Student Biomedical Research Forum, Omaha, NE.
19. **Wilson TJ**, Futakuchi M, Sadanandam A, Nannuru K, and Singh RK. Cathepsin G: Osteolytic Promotion via Proteolysis and Chemoattraction. (2007) The 48th Annual National Student Research Forum, Galveston, TX.
20. **Wilson TJ**, Futakuchi M, Sadanandam A, Nannuru K, and Singh RK. Cathepsin G promotes mammary tumor-induced osteolysis via generation of soluble RANKL. (2007) 3rd Annual Nebraska Research and Innovation Conference, Omaha, NE.
21. **Wilson TJ**, Futakuchi M, Sadanandam A, Nannuru K, and Singh RK. Identification of candidate proteases in the generation of soluble RANKL in mammary-tumor induced osteolysis. (2007) The 38th Annual Midwest Student Biomedical Research Forum, Omaha, NE.

Invited Presentations

1. Physical Exam in Spine and Peripheral Nerve Complaints. (2017) 6th Annual Navigating Spine Care, Monterrey, CA, USA.
2. Radiculopathy versus Peripheral Neuropathy: Evaluation, Diagnosis, and Management Options. (2017) 8th Annual Breakthroughs in Neurologic Therapies, San Francisco, CA, USA
3. Surgical Management of Schwannomatosis. (2016) Minnesota Neurofibromatosis Symposium, Rochester, MN, USA.

EDITORIAL BOARDS

Ad Hoc Reviewer

August 2017 – Present *Neurosurgery*

TEACHING

1. Peripheral Nerve Tumors. World Federation of Neurosurgical Societies Practical & Hands-on International Course in Peripheral Nerve & Brachial Plexus Surgery. November 3, 2017. Belgrade, Serbia.
2. Evaluation of Peripheral Nerve Patients and Management of Nerve Injuries. World Federation of Neurosurgical Societies Practical & Hands-on International Course in Peripheral Nerve & Brachial Plexus Surgery. November 3, 2017. Belgrade, Serbia.
3. Saphenous Neuropathy: Diagnosis and Management. World Federation of Neurosurgical Societies Practical & Hands-on International Course in Peripheral Nerve & Brachial Plexus Surgery. November 1, 2017. Belgrade, Serbia.
4. Peripheral Nerve Surgical Exposures and Techniques. Congress of Neurological Surgeons 2017 Annual Meeting. October 7, 2017. Boston, MA, USA.
5. Outpatient Work-up of Peripheral Nerve Pathologies: From Common Entrapments to Peripheral Nerve Tumors. American Association of Neurological Surgeons 2017 Annual Scientific Meeting. April 24, 2017. Los Angeles, CA, USA.
6. Peripheral Nerve Surgical Exposures and Techniques. Congress of Neurological Surgeons 2016 Annual Meeting. September 24, 2016. San Diego, CA, USA.