

**CURRICULUM VITAE**  
**The Johns Hopkins University School of Medicine**

Judy Huang, M.D.

July 24, 2018


**DEMOGRAPHIC AND PERSONAL INFORMATION****Current Appointments**

|                 |   |
|-----------------|---|
| 12/2015-present | Vice Chair, Department of Neurosurgery, Johns Hopkins University SOM                    |
| 12/2015-present | Director, Department of Neurosurgery, Johns Hopkins Bayview Medical Center              |
| 3/2015-present  | Professor, Department of Neurosurgery, Johns Hopkins University SOM                     |
| 8/2013-present  | Program Director, Neurosurgery Residency, Johns Hopkins University SOM                  |
| 7/2013-present  | Director, Fellowship in Cerebrovascular Neurosurgery, Johns Hopkins University SOM      |
| 7/2005-present  | Chief of Cerebrovascular Neurosurgery, Johns Hopkins Bayview Medical Center             |
| 7/2002-present  | Attending Neurosurgeon, Johns Hopkins Hospital and Johns Hopkins Bayview Medical Center |

**Personal Data**

|                     |  |   |
|---------------------|--|---|
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**Education and Training***Undergraduate*

1991 B.S., Neuroscience *magna cum laude*, Brown University Program in Liberal Medical Education, Providence, RI

*Doctoral/graduate*

1995 M.D., Columbia University College of Physicians & Surgeons, New York, NY

*Postdoctoral*

|           |   |
|-----------|---|
| 1995-1996 | Intern, Surgery, Columbia Presbyterian Medical Center, New York, NY   |
| 1996-2001 | Resident, Neurological Surgery, Neurological Institute of New York, Columbia Presbyterian Medical Center, New York, NY        |
| 1997-2000 | Research Fellow, Neurological Surgery, Columbia University, Connolly Neurovascular Research Laboratory [1997-1998; 1999-2000] |
| 2001-2002 | Chief Resident, Neurological Surgery, Neurological Institute of New York, Columbia Presbyterian Medical Center, New York, NY  |

## Professional Experience

- 2002-2008 Assistant Professor, Neurosurgery, Johns Hopkins University School of Medicine, Baltimore, MD
- 2005-2015 Vice Chair, Department of Neurosurgery, Johns Hopkins Bayview Medical Center
- 2007-2013 Director of Medical Student Education in Neurosurgery, Johns Hopkins University School of Medicine, Baltimore, MD
- 2007-2013 Co-Director, Neurosurgery Residency Program, Johns Hopkins University School of Medicine, Baltimore, MD
- 2008-2015 Associate Professor, Neurosurgery, Johns Hopkins University School of Medicine, Baltimore, MD
- 2012-present Co-Director, Multidisciplinary Adult Cranioplasty Center (MACC), Johns Hopkins University School of Medicine, Baltimore, MD
- 2013-present Director, Cerebrovascular Neurosurgery Fellowship Program, Johns Hopkins University School of Medicine, Baltimore, MD
- 2013-present Director, Neurosurgery Residency Program, Johns Hopkins University School of Medicine, Baltimore, MD
- 2015-present Neurosurgeon-in-Chief, Department of Neurosurgery, Johns Hopkins Bayview Medical Center
- 2015-present Vice Chair, Department of Neurosurgery, Johns Hopkins University School of Medicine
- 2016-present Co-Director, Fellowship in Neuroplastic Reconstructive Surgery, Johns Hopkins University School of Medicine, Baltimore, MD
- 2016-present Co-Director, Chiari Center, Johns Hopkins University School of Medicine, Baltimore, MD

## RESEARCH ACTIVITIES

### Peer Reviewed Original Science Publications - H index 35 (Google Scholar)

1. Connolly ES, **Huang J**, Goldman JE, Holtzman RNN. Immunohistochemical detection of intracranial vasa vasorum: a human autopsy study. *Neurosurgery*. 1996; 38(4): 789-793.
2. Kim SC, Singh M, **Huang J**, Prestigiacomo CJ, Winfree CJ, Solomon RA, Connolly ES. Matrix metalloproteinase-9 in cerebral aneurysms. *Neurosurgery*. 1997; 41(3): 642-647.
3. **Huang J**, Kim LJ, Poisik A, Pinsky DJ, Connolly ES. Does poly-l-lysine coating of the middle cerebral artery occlusion suture improve infarct consistency in a murine model? *J Stroke & Cerebrovascular Disease*. 1998; 7(5): 296-302.
4. Choudhri TF, Hoh BL, Prestigiacomo CJ, **Huang J**, Kim LJ, Schmidt AM, Kisiel W, Connolly ES, Pinsky DJ. Targeted inhibition of intrinsic coagulation limits cerebral injury in stroke without increasing intracerebral hemorrhage. *J Exper Med*. 1999; 190(1): 91-99.
5. **Huang J**, Kim LJ, Mealey R, Marsh HC, Zhang Y, Tenner AJ, Connolly ES, Pinsky DJ. Neuronal protection in stroke by a sLex-glycosylated complement inhibitory protein. *Science*. 1999; 285(5427): 595-599.
6. Connolly ES, Poisik A, Winfree CJ, Kim LJ, **Huang J**, McMahon D, Solomon RA. Cigarette smoking and the development and rupture of cerebral aneurysms in a mixed race population:

- implications for population screening and smoking cessation. *J Stroke & Cerebrovascular Disease*. 1999; 8(4): 248-253.
7. **Huang J**, Kim LJ, Poisik A, Pinsky DJ, Connolly ES. Titration of postischemic cerebral hypoperfusion by variation of ischemic severity in a murine model of focal cerebral ischemia. *Neurosurgery*. 1999; 45(2); 328-333.
  8. Poisik A, Heyer EJ, Solomon RA, Quest DO, Adams DC, Moses-Baldasserini C, McMahon DJ, **Huang J**, Kim LJ, Choudhri TF, Connolly ES. The safety and efficacy of fixed dosing heparin in carotid endarterectomy. *Neurosurgery*. 1999; 45(3): 434-442.
  9. Angevine PD, Choudhri TF, **Huang J**, Quest DO, Hoh BL, Heyer EH, Mohr JP, Solomon RA, Connolly ES. Significant reductions in length of stay following carotid endarterectomy can be safely accomplished without modifying either anesthetic technique or postoperative ICU monitoring. *Stroke*. 1999; 30(11): 2341-2346.
  10. **Huang J**, Choudhri TF, Winfree CJ, McTaggart RA, Mocco J, Kim LJ, Protopsaltis TS, Zhang Y, Pinsky DJ, Connolly ES. Postischemic cerebrovascular E-selectin expression mediates tissue injury in murine stroke. *Stroke*. 2000; 31(12): 3047-3053.
  11. **Huang J**, Mocco J, Choudhri TF, Poisik A, Popilskis S, Emerson R, DelaPaz R, Khandji A, Pinsky DJ, Connolly ES. A modified transorbital baboon model of reperfused stroke. *Stroke*. 2000; 31(12): 3054-3063.
  12. Connolly ES, Choudhri TF, Mack WJ, Mocco J, Spinks TJ, Slosberg J, Lin T, **Huang J**, Solomon RA. Influence of smoking, hypertension, and sex on the phenotypic expression of familial intracranial aneurysms in siblings. *Neurosurgery*. 2001; 48(1): 64-68.
  13. **Huang J**, Kiss S, McTaggart RA, Agus DB, Choudhri TF, Kim LJ, Mocco J, Pinsky DJ, Fox WD, Golde DW, Connolly ES. Dehydroascorbic acid: a blood-brain barrier transportable antioxidant improves cerebral blood flow and outcomes in experimental stroke. *Proc Nat Acad Sci USA*. 2001; 98(20): 11720-11724.
  14. Mack WJ, Mocco J, Hoh DJ, **Huang J**, Choudhri TF, Kreiter KT, Lozier A, Opperman M, Poisik A, Yorgason J, Solomon RA, Mayer SA, Connolly ES. Outcome prediction with serum intercellular adhesion molecule-1 levels after aneurysmal subarachnoid hemorrhage. *J Neurosurgery*. 2002; 96(1): 71-5.
  15. Ivanova S, Batliwalla F, Mocco J, Kiss S, **Huang J**, Mack WJ, Coon A, Eaton JW, Al-Abed Y, Gregersen PK, Shohami E, Connolly ES, Tracey KJ. Neuroprotection in cerebral ischemia by neutralization of 3-aminopropanal. *Proc Nat Acad Sci USA*. 2002; 99(8): 5579-84.
  16. Pinsky DJ, Broekman MJ, Peschon JJ, Stocking KL, Fugita T, Ramasamy R, Connolly ES, **Huang J**, Kiss S, Zhang Y, Choudhri TF, McTaggart RA, Liao H, Drosopoulos JHF, Price VL, Marcus AJ, Maliszewski CR. Elucidation of the thromboregulatory role of CD39/ectoapyrase in the ischemic brain. *J Clin Invest*. 2002; 109(8): 1031-40.
  17. Mocco J, Choudhri TF, **Huang J**, Harfeldt E, Efros L, Klingbeil C, Vexler V, Hall WC, Zhang Y, Mack WJ, Popilskis S, Pinsky DJ, Connolly ES. HuEP5C7 as a humanized monoclonal anti-E/P-selectin neurovascular protective strategy in a blinded placebo-controlled trial of non-human primate stroke. *Circ Res*. 2002; Nov 15; 91(10):907-14.

18. D'Ambrosio AL, Hoh DJ, Mack WJ, Winfree CJ, Nair MN, Ducruet A, Sciacca RR, **Huang J**, Pinsky DJ, Connolly ES: Interhemispheric intracranial pressure gradients in nonhuman primate stroke. *Surg Neurol.* 2002; 58:295-301.
19. Mack WJ, King RG, Hoh DJ, Coon AL, Ducruet AF, **Huang J**, Mocco J, Winfree CJ, D'Ambrosio AL, Nair MN, Sciacca RR, Connolly ES, Jr. An improved functional neurological examination for use in non-human primate studies of focal reperfused cerebral ischemia. *Neurol Res.* 2003; 25:280-84.
20. Mack WJ, **Huang J**, Winfree C, Kim G, Oppermann M, Dobak J, Inderbitzen B, Yon S, Popilskis S, Lasheras J, Sciacca RR, Pinsky DJ, Connolly ES Jr. Ultrarapid, convection-enhanced intravascular hypothermia: a feasibility study in nonhuman primate stroke. *Stroke.* 2003; Aug; 34(8):1994-9.
21. Weaver K, **Huang J**, Tamargo RJ, Bernard EJ. Preoperative localization of the carotid bifurcation for carotid endarterectomy using magnetic resonance angiography without tomography, technical note. *Neurosurgery.* 2004; Nov; 55(5):1227.
22. **Huang J**, McGirt M, Gailloud P, Tamargo RJ. Pediatric intracranial aneurysms: case series and review of the literature. *Surg Neurol.* 2005; 63(5):424-32.
23. Sun PZ, Zhou J, Sun W, **Huang J**, van Zijl P. Suppression of Lipid Artifacts in Amide Proton Transfer (APT) Imaging. *Magnetic Resonance in Medicine.* 2005; July 54(1):222-5.
24. McGirt MJ, Woodworth GF, Brooke B, Coon A, Jain S, Buck D, **Huang J**, Clatterbuck RE, Tamargo RJ, Perler B. Hyperglycemia independently increases the risk of perioperative stroke, myocardial infarction, and death after carotid endarterectomy. *Neurosurgery.* 2006; Jun; 58(6):1066-73.
25. Sun PZ, Zhou J, Sun W, **Huang J**, van Zijl PCM. Detection of the ischemic penumbra using pH-weighted MRI (pHWI). *J Cereb Blood Flow & Metabol.* 2006; Nov: 1-8.
26. Sun PZ, Zhou J, **Huang J**, van Zijl PCM. Simplified quantitative description of amide proton transfer (APT) imaging during acute ischemia. *Magnetic Resonance in Medicine.* 2007; 57: 405-410.
27. Woodworth GF, McGirt MJ, Than K, Perler B, **Huang J**, Tamargo RJ. Selective versus Routine Intraoperative Shunting during Carotid Endarterectomy: A Multivariate Outcome Analysis. *Neurosurgery.* 2007 Dec; 61(6):1170-6.
28. Zhang J, Yang ZJ, Klaus J, Koehler R, **Huang J**. Delayed tolerance with repetitive transient focal ischemic preconditioning in the mouse. *Stroke*, 2008, 39(3):967-74.
29. Walczak P, Zhang J, Gilad AA, Kedziorek DA, Ruiz-Cabello J, Young RG, Pittenger MF, van Zijl PCM, **Huang J**, Bulte JWM. Dual-Modality Monitoring of Targeted Intraarterial Delivery of Mesenchymal Stem Cells Following Transient Ischemia. *Stroke*, 2008, May (39)5:1569-74.
30. Raja PV, **Huang J**, Germanwala AV, Gailloud P, Murphy KP, Tamargo RJ. Microsurgical clipping and endovascular coiling of intracranial aneurysms: a critical review of the literature. *Neurosurgery.* 2008 Jun; 62(6):1187-202; discussion 1202-3.
31. McGirt MJ, Garces Ambrossi GL, **Huang J**, Tamargo RJ. Simvastatin for the prevention of symptomatic cerebral vasospasm following aneurysmal subarachnoid hemorrhage: a single-institution prospective cohort study. *J Neurosurg.* 2009 May 110:968-974.

32. Hirsch KG, Froehler MT, **Huang J**, Ziai WC. Occurrence of Perimesencephalic Subarachnoid Hemorrhage During Pregnancy. *Neurocrit Care*. 2009; 10(3):339-43.
33. Dorsi MJ, Zenonos G, Hsu W, **Huang J**. Dural prostate adenocarcinoma metastasis with subdural hematoma mimicking the appearance of an epidural hematoma. *Clin Neurol Neurosurg*. 2010 Jul; 112(6):501-4.
34. Paul AR, Colby GP, Radvany MG, **Huang J**, Tamargo RJ, Coon AL. Femoral access in 100 consecutive subarachnoid hemorrhage patients: the "craniotomy" of endovascular neurosurgery. *BMC Res Notes*. 2010 Nov 5; 3:285.
35. Sun DQ, Carson KA, Raza SM, Batra S, Kleinberg LR, Lim M, **Huang J**, Rigamonti D. The Radiosurgical Treatment of Arteriovenous Malformations: Obliteration, Morbidities, and Performance Status. *Int J Radiat Oncol Biol Phys*. 2011 Jun 1; 80(2):354-61.
36. Li M, Zhang Z, Sun W, Koehler RC, **Huang J**.  $17\beta$ -estradiol attenuates breakdown of blood-brain barrier and hemorrhagic transformation induced by tissue plasminogen activator in cerebral ischemia. *Neurobiol Dis*. 2011 Dec; 44(3):277-83.
37. Coon AL, Paul AR, Colby GP, Lin LM, Pradilla G, **Huang J**, Tamargo RJ. Comparison of tertiary-center aneurysm location frequencies in 400 consecutive cases: decreasing incidence of posterior communicating artery region aneurysms. *Surg Neurol Int*. 2011; 2:152.
38. Colby GP, Paul AR, Radvany MG, Gandhi D, Gailloud P, **Huang J**, Tamargo RJ, Coon AL. A single center comparison of coiling versus stent assisted coiling in 90 consecutive paraophthalmic region aneurysms. *J Neurointerv Surg*. 2012 Mar 1; 4(2):116-20.
39. Suarez JI, Martin RH, Calvillo E, Dillon C, Bershad EM, Macdonald RL, Wong J, Harbaugh R for the ALISAH Investigators. The Albumin in Subarachnoid Hemorrhage (ALISAH) Multicenter Pilot Clinical Trial: safety and neurologic outcomes. *Stroke*. 2012 Mar; 43(3):683-90. *Note: I served as site Principal Investigator*
40. Wicks RT, Pradilla G, Raza SM, Hadelsberg U, Coon AL, **Huang J**, Tamargo RJ. Impact of changes in intraoperative somato-sensory evoked potentials (SSEPs) on stroke rates after clipping of intracranial aneurysms. *Neurosurgery*. 2012 May; 70(5):1114-24.
41. Gandhi D, Chen J, Pearl M, **Huang J**, Gemmete JJ, Kathuria S. Intracranial Dural Arteriovenous Fistulae: Classification, Imaging Findings and Treatment. *AJNR Am J Neuroradiol*. 2012, Jun; 33(6):1007-13.
42. Radvany MG, Ehtiati T, **Huang J**, Mahesh M, Gailloud P. Aortic arch injection with C-arm cone beam CT for radiosurgery treatment planning of cerebral arteriovenous malformations: technical note. *J Neurointerv Surg*. 2012 Sep; 4(5): e28.
43. Raza S, Papadimitriou K, Gandhi D, Radvany M, Olivi A, **Huang J**. Intra-Arterial Intraoperative CT Angiography Guided Navigation: A New Technique for Localization of Vascular Pathology. *Operative Neurosurgery*. 2012, Dec; 71(2): 240-52.
44. Colby GP, Lin LM, Paul AR, **Huang J**, Tamargo RJ, Coon AL. Cost comparison of endovascular treatment of anterior circulation aneurysms with the pipeline embolization device and stent-assisted coiling. *Neurosurgery*. 2012; 71(5):944-48.

45. Colby GP, Lin LM, Gomez JF, Paul AR, **Huang J**, Tamargo RJ, Coon AL. Immediate procedural outcomes in 35 consecutive pipeline embolization cases: a single-center, single-user experience. *J Neurointerv Surg*. 2013 May; 5(3):237-46.
46. Mould WA, Carhuapoma JR, Muschelli J, Lane K, Morgan TC, McBee NA, Bistran-Hall AJ, Ullman NL, Vespa P, Martin NA, Awad I, Zuccarello M, Hanley DF; MISTIE Investigators. Minimally invasive surgery plus recombinant tissue-type plasminogen activator for intracerebral hemorrhage evacuation decreases perihematomal edema. *Stroke*. 2013 Mar; 44(3):627-34. *Note: I served as site PI for this multi-center clinical trial.*
47. Lin L, Colby GP, Kim JE, **Huang J**, Tamargo RJ, Coon AL. Immediate and follow-up results for 44 consecutive cases of small (<10 mm) internal carotid artery aneurysms treated with the pipeline embolization device. *Surg Neurol Int* 2013; Sep 6(4):114.
48. Wang JY, Yang W, Ye X, Rigamonti D, Coon AL, Tamargo RJ, **Huang J**. Impact on Seizure Control of Surgical Resection or Radiosurgery for Cerebral Arteriovenous Malformations. *Neurosurgery*. 2013 Oct; 73(4):648-56.
49. Colby GP, Lin LM, **Huang J**, Tamargo RJ, Coon AL. Utilization of the Navien distal intracranial catheter in 78 cases of anterior circulation aneurysm treatment with the Pipeline embolization device. *J Neurointerv Surg*. 2013 Nov; 5 Suppl 3:iii16-21.
50. Sarkiss CA, Soleymani T, Caplan JM, Dorsi MJ, **Huang J**. Intracerebral abscess with dissecting pneumocephalus caused by a gas-producing gram-positive rod following craniotomy for glioblastoma multiforme resection. *J Clin Neurosci*. 2013 Nov; 20(11):1625-7.
51. Pradilla G, Wicks RT, Hadelsberg U, Gailloud P, Coon AL, **Huang J**, Tamargo RJ. Accuracy of computed tomography angiography in the diagnosis of intracranial aneurysms. *World Neurosurg*. 2013 Dec; 80(6):845-52.
52. Alberts MJ, Wechsler LR, Jensen MEL, Latchaw RE, Crocco TJ, George MG, Baranski J, Bass RR, Ruff RL, **Huang J**, Mancini B, Gregory T, Gress D, Emr M, Warren M, Walker MD. Formation and Function of Acute Stroke-Ready Hospitals within a Stroke System of Care: Recommendations from the Brain Attack Coalition *Stroke*. 2013 Dec; 44(12):3382-93.
53. Lin LM, Colby GP, **Huang J**, Tamargo RJ, Coon AL. Ultra-distal large-bore intracranial access using the hyperflexible Navien distal intracranial catheter for the treatment of cerebrovascular pathologies: a technical note. *J Neurointerv Surg*. 2014 May; 6(4):301-7.
54. Yang WY, **Huang J**. Meningioma encased ruptured paraophthalmic aneurysm: case report and review of the literature. *Interdisciplin Neurosurg*. 2014 Jun; 1(2): 17-20. doi:10.1016/j.inat.2014.02.004
55. Gordon CR, Fisher M, Liauw J, Lina I, Puvanesarajah V, Susarla S, Coon A, Lim M, Quinones-Hinojosa A, Weingart J, Colby G, Olivi A, **Huang J**. Multidisciplinary Approach for Improved Outcomes in Secondary Cranial Reconstruction: Introducing the Pericranial-only Cranioplasty Technique. *Neurosurgery* 2014 Jun; 10 Suppl 2:179-89; discussion 189-90.
56. Caplan JM, Yang WY, Wang J, Colby G, Coon AL, Tamargo RJ, **Huang J**. The minipterional craniotomy for anterior circulation aneurysms: initial experience with 72 Patients. *Neurosurgery*. 2014 Jun; 10 Suppl 2:200-6; discussion 206-7.

57. De la Garza-Ramos R, Bydon M, Macki M, **Huang J**, Tamargo RJ, Bydon A. Fluorescent techniques in spine surgery. *Neurol Res.* 2014 Oct; 36(10):928-38.
58. Caplan JM, Sankey E, Yang W, Radvany MG, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Impact of Indocyanine Green Videoangiography on Rate of Clip Adjustments Following Intraoperative Angiography. *Neurosurgery.* 2014 Oct; 75(4):437-43; discussion 444.
59. Kang J, **Huang J**, Gailloud P, Rigamonti D, Lim M, Bernard V, Ehtiati T, Ford EC. Planning Evaluation of C-Arm Cone Beam CT Angiography for Target Delineation in Stereotactic Radiation Surgery of Brain Arteriovenous Malformations. *Int J Radiat Oncol Biol Phys.* 2014 Oct 1; 90(2):430-7.
60. Bydon M, Abt NB, Macki M, Brem H, **Huang J**, Bydon A, Tamargo RJ. Preoperative anemia increases postoperative morbidity in elective cranial neurosurgery. *Surg Neurol Int* 2014 Oct 31; 5:156. doi:10.4103/2152-7806.143754.
61. Abt NB, Bydon M, De la Garza-Ramos R, McGovern K, Olivi A, **Huang J**, Bydon A. Concurrent neoadjuvant chemotherapy is an independent risk factor of stroke, all-cause morbidity, and mortality in patients undergoing brain tumor resection. *J Clin Neurosci.* 2014 Nov; 21(11):1895-900.
62. Patel MA, Caplan JM, Yang W, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Arterial fenestrations and their association with cerebral aneurysms. *J Clin Neurosci.* 2014 Dec; 21(12):2184-8.
63. Huang GJ, Zhong S, Susarla S, Swanson EW, **Huang J**, Gordon CR. Craniofacial reconstruction with poly(methylmethacrylate) customized cranial implants. *J Craniofac Surgery.* 2015 Jan. 26(1): 64-70. doi:10.1097/SCS.
64. Yang W, Wang JY, Caplan JM, Braileanu M, Shang H, Upadhyay U, Zenonos GA, Rigamonti D, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Predictors of functional outcome following treatment of posterior fossa arteriovenous malformations. *J Clin Neurosci.* 2015 Feb. 22(2): 357-362. doi: 10.1016/j.jocn.2014.08.007.
65. Caplan JM, Kaminsky I, Gailloud P, **Huang J**. A single burr hole approach for direct transverse sinus cannulation for the treatment of a dural arteriovenous fistula. *J Neurointerv Surg.* 2015 Feb; 7(2):e5. doi: 10.1136/neurintsurg-2013-011011.rep.
66. Staedtke V, Bai RY, Sun W, **Huang J**, Kibler KK, Tyler BM, Gallia GL, Kinzler K, Vogelstein B, Zhou S, Riggins GJ. Clostridium novyi-NT can cause regression of orthotopically implanted glioblastomas in rats. *Oncotarget.* 2015 Mar 20; 6(8):5536-46.
67. Bydon M, Abt NB, De la Garza-Ramos R, Macki M, Witham TF, Gokaslan ZL, Bydon A, **Huang J**. Impact of resident participation on morbidity and mortality in neurosurgical procedures: an analysis of 16,098 patients. *J Neurosurg.* 2015 Apr. 122(4): 955-961. DOI: 10.3171/2014.11. JNS14890.
68. Colby GP, Lin LM, Nundkumar N, Jiang B, **Huang J**, Tamargo RJ, Coon AL. Radiation dose analysis of large and giant internal carotid artery aneurysm treatment with the pipeline embolization device versus traditional coiling techniques. *J Neurointerv Surg.* 2015 May; 7(5):380-4. doi: 10.1136/neurintsurg-2014-011193.
69. Pearl MS, Torok C, Katz Z, Messina SA, Blasco J, Tamargo RJ, **Huang J**, Leigh R, Zeiler S, Radvany M, Ehtiati T, Gailloud P. Diagnostic quality and accuracy of low dose 3D-DSA protocols in the evaluation of intracranial aneurysms. *J Neurointerv Surg.* 2015 May; 7(5): 386-90 doi: 10.1136/neurintsurg-2014-011137.

70. Zhong S, Huang GJ, Susarla SM, Swanson EW, **Huang J**, Gordon CR. Quantitative Analysis of Dual-Purpose, Patient-Specific Craniofacial Implants for Correction of Temporal Deformity. *Operative Neurosurgery*. 2015. Jun; 11 Suppl 1:220-9. doi: 10.1227/NEU.
71. Wei Z, Garzon-Muvdi T, Yang W, Caplan JM, Radvany MG, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Utility of intraoperative diagnostic C-arm angiography for management of high grade subarachnoid hemorrhage. *Interdiscip Neurosurg*. 2015 Jun 2(2): 98-102. doi: 10.1016/j.inat.2015.03.002
72. Caplan JM, Sankey E, Gullotti D, Wang J, Westbroek E, Hwang B, **Huang J**. Contralateral approach for clipping of bilateral anterior circulation aneurysms. *Neurosurg Focus*. 2015 Jul; 39 Video Suppl 1:V9. doi: 10.3171/2015.7. FocusVid.14599.
73. Wang J, Smith R, Ye X, Yang W, Caplan JM, Radvany MG, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Serial imaging surveillance for patients with a history of intracranial aneurysm: risk of de novo aneurysm formation. *Neurosurgery*. 2015. Jul; 77(1):32-43. doi: 10.1227/NEU.
74. Berli JU, Thomaier L, Zhong S, **Huang J**, Quinones A, Lim M, Weingart J, Brem H, Gordon CR. Immediate single-stage cranioplasty following calvarial resection for benign and malignant skull neoplasms using customized craniofacial implants. *J Craniofac Surg*. 2015 Jul; (26(5):1456-62. doi: 10.1097/SCS.
75. Wang JY, Molenda J, Bydon A, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Natural history and treatment of craniocervical junction dural arteriovenous fistulas. *J Clin Neurosci*. 2015 Jul 17. pii: S0967-5868(15)00270-2. doi: 10.1016/j.jocn.2015.05.014.
76. Yang W, Caplan JM, Ye X, Wang JY, Braileanu M, Rigamonti D, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Racial Associations with Hemorrhagic Presentation in Cerebral Arteriovenous Malformations. *World Neurosurg*. 2015 Aug; 84(2):461-9. doi: 10.1016/j.wneu.2015.03.050.
77. Lin LM, Colby GP, Jiang B, Uwandu C, **Huang J**, Tamargo RJ, Coon AL. Classification of cavernous internal carotid artery tortuosity: a predictor of procedural complexity in Pipeline embolization. *J Neurointerv Surg*. 2015 Sep; 7(9):628-33. doi: 10.1136/neurintsurg-2014-011298.
78. Ibrahim Z, Santiago GF, **Huang J**, Manson P, Gordon CR. Algorithmic approach to overcome scalp deficiency in the setting of secondary cranial reconstruction. *J Craniofac Surg* 2016 Jan; 27(1):229-33.
79. Rong X, Yang W, Garzon-Muvdi T, Ye X, Caplan JM, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Risk Factors Associated with Ipsilateral Events Following Carotid Endarterectomy (CEA) for Carotid Artery Stenosis. *World Neurosurg*. 2016 May; 89:611-9. doi: 10.1016/j.wneu.2015.11.049.
80. Boone CE, Caplan JM, Yang W, Ye X, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Hemorrhage risk and clinical features of multiple intracranial arteriovenous malformations. *J Clin Neurosci*. 2016 Jan; 23:51-7. doi: 10.1016/j.jocn.2015.07.008.
81. De la Garza-Ramos R, Kerezoudis P, Tamargo RJ, Brem H, **Huang J**, Bydon M. Surgical complications following malignant brain tumor surgery: An analysis of 2002-2011 data. *Clin Neurol Neurosurg*. 2016 Jan; 140:6-10. doi: 10.1016/j.clineuro.2015.11.005.



82. Sankey EW, Lopez J, Zhong SS, Susarla H, Jusué-Torres I, Liauw J, **Huang J**, Streiff M, Brem H, Gordon CR. Anticoagulation for Hypercoagulable Patients Associated with Complications after Large Cranioplasty Reconstruction. *Plast Reconstr Surg*. 2016 Feb; 137(2):595-607. doi: 10.1097/01.prs.0000475773.99148.ba.
83. Lopez J, Zhong SS, Sankey EW, Swanson EW, Susarla H, Jusue-Torres I, **Huang J**, Brem H, Auwaerter PG, Gordon CR. Time Interval Reduction for Delayed Implant-Based Cranioplasty Reconstruction in the Setting of Previous Bone Flap Osteomyelitis. *Plast Reconstr Surg*. 2016 Feb; 137(2):394e-404e. doi: 10.1097/01.prs.0000475770.14396.1e.
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## Educational Publications

### *Peer-reviewed, original, educational publications*

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2. Germanwala AV, **Huang J**, Tamargo RJ. Hydrocephalus after aneurysmal subarachnoid hemorrhage. *Neurosurg Clin N Am*. 2010 Apr; 21(2):263-70.
3. Tamargo RJ, **Huang J**. Cranial arteriovenous malformations (AVMs) and cranial dural arteriovenous fistulas (DAVFs) Preface. *Neurosurg Clin N Am*. 2012 Jan; 23(1): xiii-xiv.
4. Chaichana KL, Coon AL, Tamargo RJ, **Huang J**. Dural arteriovenous fistulas: epidemiology and clinical presentation. *Neurosurg Clin N Am*. 2012 Jan; 23(1):7-13.
5. Colby GP, Coon AL, **Huang J**, Tamargo RJ. Historical perspective of treatments of cranial arteriovenous malformations and dural arteriovenous fistulas. *Neurosurg Clin N Am*. 2012 Jan; 23(1):15-25.
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7. Pradilla G, Coon AL, **Huang J**, Tamargo RJ. Surgical treatment of cranial arteriovenous malformations and dural arteriovenous fistulas. *Neurosurg Clin N Am*. 2012 Jan; 23(1):105-22.
8. Caplan JM, Colby GP, Coon AL, **Huang J**, Tamargo RJ. Managing subarachnoid hemorrhage in the neurocritical care unit. *Neurosurg Clin N Am*. 2013 Jul; 24(3):321-37. Epub 2013 Apr 24.
9. Yang WY, **Huang J**. Chronic subdural hematoma: Epidemiology and Natural History. *Neurosurg Clin N Am*. 2017 Apr; 28(2): 205-210.

### *Invited review articles*

10. **Huang J**, Upadhyay U, Tamargo RJ. Inflammation in Stroke and Focal Cerebral Ischemia. *Surg Neurology*. 2006; Sep; 66(3):232-45.
11. Chaichana KL, Pradilla G, **Huang J**, Tamargo RJ. Role of inflammation (leukocyte-endothelial cell interactions) in vasospasm after subarachnoid hemorrhage. *World Neurosurg*. 2010 Jan; 73(1):22-41.
12. Liu A, **Huang J**. Treatment of Intracranial Aneurysms: Clipping Versus Coiling. *Curr Card Rep*. 2015 Sep; 17(9): 628.
13. Yang W, **Huang J**. Treatment of Middle Cerebral Artery (MCA) Aneurysms: A Review of the Literature. *Chinese Neurosurg J*, 2015 Dec 10(1)57-63.
14. Yang W, **Huang J**. Adapting to the Rapid Evolution of Healthcare from a Shared Perspective. *World Neurosurg*. 2017 Aug; 104:981-982. doi: 10.1016/j.wneu.2017.04.127.

### *Editorials/Letters*

15. **Huang J**, Connolly ES. Saccular aneurysm induction by elastase digestion of the arterial wall: a new animal model. *Neurosurgery*. 1998; 43: 600, 1998.
16. **Huang J**, Connolly ES. Consistent injury in the striatum of C57BL/6 mice after transient bilateral common carotid artery occlusion. *Neurosurgery*. 1998; 43: 907.
17. **Huang J**. Familial intracranial dural arteriovenous fistulas. *Neurosurgery*. 72(2): E310-313, Feb 2013.
18. **Huang J**. The mechanisms of energy crisis in human astrocytes after subarachnoid hemorrhage. *Neurosurgery*. 72(3):468-474, March 2013.
19. Caplan JM, **Huang J**. In reply: clinical and surgical experience with the minipterional craniotomy. *Neurosurgery*. 2014 Sep; 75(3): E325.
20. Caplan JM, **Huang J**. In Reply: How Mini Can Minipterional Craniotomies Get? *Neurosurgery*. 2015 Jan; 76(1): E102-E103.
21. **Huang J**. Commentary: ORACLE Stroke Study: Opinion Regarding Acceptable Outcome Following Decompressive Hemicraniectomy for Ischaemic Stroke. *Neurosurgery*. 2016 Aug; 79(2):237. [Epub 2015 Dec 14]
22. Gordon CR, Tamargo RJ, Brem H, **Huang J**. Discussion of Effect of Reflection of Temporalis Muscle During Cranioplasty with Titanium Mesh After Standard Trauma Craniectomy. *J Craniofac Surg*. 2016 May; 27(3):654-5.
23. Yang W, **Huang J**. Intracerebral Hematoma Due to Aneurysm Rupture: Are There Risk Factors Beyond Aneurysm Location? *Neurosurgery*. 2016 Jun; 78(6): 820.
24. Yang W, **Huang J**. In Reply: Lower Risk of Intracranial Arteriovenous Malformation Hemorrhage in Patients with Hereditary Hemorrhagic Telangiectasia. *Neurosurgery*. 2016 Dec; 79(6): e944-e945.
25. Gordon CR, Murphy RJ, Armand M, Liacouras P, Weingart J, **Huang J**, Brem H, Lim M. Discussion on: Usefulness of an Osteotomy Template for Skull Tumorectomy and Simultaneous Skull Reconstruction. *J Craniofac Surg*. 2016 Sep; 27(6):1568-70.
26. Yang W, **Huang J**. In Reply to a Letter to the Editor regarding "Is Carotid Revascularization Safe for Patients with Concomitant Carotid Stenosis and Intracranial Aneurysms?" *World Neurosurg*. 2017 Feb 15. Pii: S1878-8750(17)30190-0. doi: 10.1016/j.wneu.2017.02.028.
27. Gordon CR, **Huang J**, Brem H. Neuroplastic Surgery. *J Craniofac Surg*. 2018 Jan; 29(1):4-5.
28. Wolff A, Santiago GF, **Huang J**, Gordon C. Considerations in computer-aided design for inlay cranioplasty: technical note. *Oral Maxillofac Surg*. 2018 Mar; 22(1):117-118.

### *Case Reports*

29. Senatus PB, McClelland S III, Tanji K, Khandji A, **Huang J**, Feldstein N. The Transformation of Pediatric Gliomatosis Cerebri to Cerebellar Glioblastoma Multiforme Presenting as Supra and Infratentorial Acute Disseminated Encephalomyelitis. *J Neurosurgery: Pediatrics*. 2005; 102(1): 72-77.
30. Braileanu M, Yang W, Caplan JM, **Huang J**. Imaging the spontaneous obliteration of a cerebral arteriovenous malformation using c-arm cone beam computed tomography: A case report. *Surg Neurol Int*. 2015 Sep 28; 6(Suppl 15):S399-401. doi: 10.4103/2152-7806.166174. eCollection 2015.

**Sponsorship**Pending

- 04/01/18-03/31/23 An integrated vascular MR imaging suite in brain diseases  
R01NS106702  
NIH/NINDS  
\$301,423 year  
PI: Lu HZ  
Role: Co-Investigator
- 9/1/18-8/31/23 Velocity-selective ASL study  
R01  
NIH/NINDS  
PI: Qin Q  
Role: Co-Investigator, 5%
- 7/1/18- Clinical Proteomic Tumor Analysis Consortium III (The CPTAC III)  
Analysis of protein signature of tumor tissue for the Early Detection of Cancers  
NIH/NCI  
PI: Qing, Kay Li  
Role: Co-Investigator

Current:

- 07/01/17-06/30/19 Development of techniques to map cerebrovascular reactivity with resting-state MRI  
ID: 1 R21 NS100006-01A1  
Sponsor: NIH/NINDS  
\$125,000  
PI: Liu PY  
Role: Co-Investigator, 8%  
This project will develop a novel technique to map cerebrovascular reactivity using MRI data acquired under resting-state condition without any physiologic challenges.
- 04/9/18- ENRICH (**E**arly **Mi**Nimally-invasive **R**emoval of **ICH**)  
Sponsor: Nico Corporation  
PI: Pradilla, G  
Role: Site Co-PI (no salary support)

Previous:

- 6/1/92-7/31/09 Functional Magnetic Resonance Studies of the Brain  
ID: 2R01EB002634-12  
Sponsor: NIH/NIBIB  
\$225,000  
PI: van Zijl P  
Role: Co-Investigator, 5%
- 7/1/03– 6/30/04 Effects of Estrogen on Matrix Metalloproteinase-Mediated Inflammatory Injury in Stroke  
ID: Young Clinician Investigator Award



Sponsor: Neurosurgery Research & Education Foundation / American Association of Neurological Surgeons  
 \$40,000  
 Role: PI, 20%

- 12/20/04-8/31/05 Neural Regeneration with Mesenchymal Stem Cells  
 ID: 6792242  
 Sponsor: Osiris Therapeutics Inc.  
 \$198,997  
 PI: Bulte J  
 Role: Co-Investigator, 5%
- 4/1/05-3/30/10 MISTIE I: ICH Removal: Minimally Invasive Surgery + rt-PA  
 Sponsor: NIH/NINDS  
 PI: Hanley DF, Zuccarello M  
 Role: Site PI, 5%
- 2/1/06-1/31/10 Treatment of Subarachnoid Hemorrhage with Human Albumin  
 ID: R01NS049135-01  
 Sponsor: NIH  
 \$441,869  
 PI: Suarez J  
 Role: Site Co-Investigator, 7%; as of 7/1/08 10%
- 7/1/06-6/30/08 Role of Estrogen on Matrix Metalloproteinase Mediated Vascular Remodeling in Cerebral Ischemia  
 ID: Clinician Scientist Award  
 Sponsor: Johns Hopkins University School of Medicine  
 \$25,000  
 PI: Huang J  
 Role: PI, 25%
- 9/1/09-2/28/12 MISTIE II: ICH Removal: Minimally Invasive Surgery + rt-PA  
 ID: 5R01NS046309-07  
 Sponsor: NIH/NINDS  
 Total direct cost: \$989,937; Total 3 years: \$2,916,011  
 PI: Hanley DF, Zuccarello M  
 Role: Site PI, 5%
- 12/1/13-2017 MISTIE III: Minimally Invasive Surgery Plus rt-PA for ICH Evacuation Phase III  
 ID: NCT01827046  
 Sponsor: NIH/NINDS  
 PI: Hanley DF, Zuccarello M, Awad I  
 Role: Site Surgical Principal Investigator (no salary support)
- 5/10/15-4/30/16 Real Time and Noninvasive Monitoring of Blood Flow During Surgery  
 ID: 1R43EB019856-01A1  
 Sponsor: NIH/NIBIB  
 \$248,662  
 PI: Rege A, Brooke MJ  
 Role: Subcontractor Project Director, 2.5%, \$38,444

6/2016-2017 Johns Hopkins University - Coulter Translational Partnership Award: Computer Assisted Cranioplasty with Functional Customized Implants  
 Sponsor: Johns Hopkins University  
 \$100,000  
 PI: Gordon C  
 Role: Co-Investigator (no salary support)

### Research Program Building

6/13 - present Fellowship Director, Division of Cerebrovascular Neurosurgery, Johns Hopkins University School of Medicine. I direct residents, post-doctoral research fellows, and medical students on clinical outcomes research on cerebrovascular diseases including cerebral AVM's, carotid stenosis, moya disease, and cerebral aneurysms.

### EDUCATIONAL ACTIVITIES

#### Book Chapters

1. **Huang J**, Gailloud P, Tamargo RJ. Vascular malformations. In: Treatment of Pediatric Neurologic Diseases, 1st ed. Singer H, Kossoff E, Crawford T, Hartman A, eds. Boca Raton, FL: Taylor & Francis, 2005.
2. **Huang J**. Carotid artery stenosis. In: Stroke. Wityk RJ and Llinas RH, eds. Philadelphia: ACP, 2007.
3. **Huang J** and Tamargo RJ. Contralateral Approach to Cerebral Aneurysms. In: Neurosurgical Operative Atlas, Vascular Neurosurgery. 2<sup>nd</sup> ed. MacDonald L, ed. Thieme, 2009.
4. **Huang J**, Germanwala A, and Tamargo RJ. Anterior Communicating Artery Aneurysms. In: Youmans Neurological Surgery. 6<sup>th</sup> edition. Winn, R ed. Elsevier, 2011, pp. 3841-3852.
5. Papadimitriou K and **Huang J**. Posterior Communicating Artery Aneurysms. In: Schmidek & Sweet Operative Neurosurgical Techniques, 6<sup>th</sup> edition. Quinones-Hinojosa ed. Elsevier, 2012, vol.1, pp. 872-881.
6. Caplan JM, Naval N, **Huang J** and Tamargo RJ. Aneurysm Surgery. In *Neurocritical Care Management of the Neurosurgical Patient*. 1<sup>st</sup> Edition. Ed. Kumar M, Levine J, Schuster J, and Kofke W., Elsevier, 2018, pp. 95-104.
7. Caplan JM, **Huang J**, Tamargo RJ. Microsurgery of Anterior Communicating Artery Aneurysms. In *Youmans and Winn Neurological Surgery*. Ed. Winn HR. Elsevier (In Press).
8. Caplan JM and **Huang J**. Editorial On: Early Surgery versus Initial Conservative Treatment in Patients with Spontaneous Lobar Intracerebral Hematomas (STITCH II). In *CNS Essential Papers in Neurosurgery*. Ed. Bendok B, Ghogawala Z, El Tecie N, Ragel B, Asthafirl A and Resnick D. (Submitted)
9. Yang W and **Huang J**. Distal Middle Cerebral Artery Aneurysms. In: *Decision Making in Neurovascular Disease*. Eds. Rangel-Castilla, Nakaji, Siddiqui, Spetzler, Levy. Thieme (In Press)
10. Liew J and **Huang J**. Posterior Communicating, Anterior Choroidal and ICA Bifurcation Aneurysms. In: Schmidek & Sweet Operative Neurosurgical Techniques, 7<sup>th</sup> edition. Quinones-Hinojosa ed. Elsevier, 2018 (In Press)

*Books, Textbooks*

1. Connolly ES, McKhann GM, **Huang J**, Choudhri TF (eds.) *Fundamentals of Operative Neurosurgery*. New York: Thieme, 2002.
2. Connolly ES, McKhann GM, **Huang J**, Mocco J, Choudhri TF (eds.) *Fundamentals of Operative Neurosurgery*. 2<sup>nd</sup> edition. New York: Thieme, 2010. English, with translations in Chinese and Portuguese.

*Other Media*

1. Discovery Channel. Invited expert on cable television program: “Everything You Wanted to Know About...the Brain.” March 22, 2006.
2. ForbesLife Executive Woman, Spring 2008. “Advanced Women: Four superachievers under 40” page 55.

**Teaching***Classroom Instruction*

2006-2013 Topics in General Surgery, lecturer, “Neurosurgical Emergencies,” given to 30 MSIII students quarterly, Johns Hopkins University School of Medicine, Baltimore, MD

*Clinical Instruction*

2002- present Director, Inpatient Bayview Neurosurgery Service, Johns Hopkins Bayview Medical Center  
3-4 PGY-4 residents/year and 6-7 PGY-1 residents/year

2005-2008 Preceptor, Introduction to Clinical Medicine, Johns Hopkins University School of Medicine  
1-2 first year medical students /year

2006-2013 Course Director, Neurosurgery Sub-internship, Johns Hopkins University School of Medicine  
Johns Hopkins Hospital and Johns Hopkins Bayview Medical Center  
25-35 4th year Johns Hopkins and visiting medical students/year

2006-2013 Course Director, Neurosurgery Clerkship, Johns Hopkins University School of Medicine  
Johns Hopkins Hospital and Johns Hopkins Bayview Medical Center  
35-45 third year Johns Hopkins medical students/year

*CME Instruction*

5/28/06 Spring Symposium 2006. A Day with the Experts: Innovative Perspectives in Stroke Care, Invited Panelist, “Intracranial Aneurysms: Clipping vs. Coiling,” Forsyth Stroke and Neurovascular Center, Winston-Salem, NC

9/12/08 Neurology for the Neurologist and the Primary Care Practitioner, Lecturer, “When Blood in the Brain is Bad,” Johns Hopkins Bayview Medical Center, Baltimore, MD

10/23/09 Practical Update in Outpatient Neurology, Lecturer, “Interventions for Carotid Occlusive Disease,”  
Johns Hopkins Bayview Medical Center, Baltimore, MD

12/22/11 Operating Room Nurses In-service, Lecturer, “Traumatic Brain Injury,” Johns Hopkins Bayview Medical Center, Baltimore, MD

10/18/16 Advanced Clinical Topics in Cerebrovascular Disease and Stroke Workshop, Lecturer, “Aneurysmal Subarachnoid Hemorrhage” Johns Hopkins Hospital, Baltimore, MD

*Workshops/Seminars*

4/04 Seminar in Advanced Clinical Topics in Neuroscience Nursing. Lecturer, “Management of Vasospasm,” Johns Hopkins University School of Nursing. Baltimore, MD

- 4/07 Seminar in Advanced Clinical Topics in Neuroscience Nursing. Lecturer, “New Clinical Trials for Intracerebral and Subarachnoid Hemorrhage,” Johns Hopkins University School of Nursing. Baltimore, MD
- 4/16/09 Seminar in Critical Care Nursing. Lecturer, “Traumatic Brain Injury,” Johns Hopkins Bayview Medical Center, Baltimore, MD
- 4/5/11 Seminar in Critical Care Nursing. Lecturer, “Traumatic Brain Injury,” Johns Hopkins Bayview Medical Center, Baltimore, MD
- 4/12/13 Seminar in Critical Care Nursing. Lecturer, “Traumatic Brain Injury,” Johns Hopkins Bayview Medical Center, Baltimore, MD

## MENTORING

- 2002 Milan Radojicic, M.D., General Surgery intern, Johns Hopkins University SOM  
Bio entrepreneur, Family Medicine, Los Gatos, CA
- 2003 Aqueel Pabaney, 4<sup>th</sup> year medical student, Aga Khan University, Pakistan  
2009-2016: Resident in Neurosurgery – Henry Ford Hospital, Detroit, MI  
2016-2017: Skull Base/Cerebrovascular Fellow – Louisiana State University at Shreveport  
2017 – Private practice, Ohio
- 2003-2004 Aalap Shah, M.D., undergraduate, Johns Hopkins University, B.A. 2006  
2004 – Awarded Provost’s Undergraduate Research Award, Johns Hopkins University  
2012 – Resident in Anesthesiology, University of Washington, Seattle, WA  
2015 – 16: Pediatric Anesthesiology fellow, Boston Children’s Hospital
- 2003-2009 Daniel Sciubba, M.D., resident in Neurosurgery, Johns Hopkins Neurosurgery 7/2003 -6/2009,  
2009 – 2013: Assistant Professor of Neurosurgery, Johns Hopkins University SOM  
2013 – 2016: Associate Professor of Neurosurgery, Johns Hopkins University SOM  
2016 – present: Professor of Neurosurgery, Johns Hopkins University SOM
- 2004 Bilal Gondal, senior medical student, Trinity College, Dublin, Ireland  
2014 – Gastroenterology, University of Chicago Medical Center
- 2004-2005 Rabia Qaiser, M.D.  
2005 – Pre-residency fellowship at Brigham & Women’s Hospital of Harvard Medical School  
2013 – Completed residency in Neurosurgery, University of Minnesota, Minneapolis, MN  
2014 – Pediatric Neurosurgery Fellowship, Indiana University  
2015 – Assistant Professor of Neurosurgery, University of West Virginia
- 2004-2018 Alexander Coon, M.D. resident in Neurosurgery, Johns Hopkins University 7/2004 – 6/2010,  
2010 – 2018: Assistant Professor, Department of Neurosurgery, Johns Hopkins University SOM
- 2004-present Urvashi Upadhyay, M.D. M.D. candidate, class of 2005, Johns Hopkins University SOM;  
2005 – 2013: resident in Neurosurgery, Brigham & Women’s Hospital, Harvard Medical School  
2013 – 14: Fellow in Neuro-oncology, Brigham & Women’s Hospital

- 2014 – Assistant Professor and Director of Skull Base Surgery, Department of Neurosurgery, University of Massachusetts
- 2005-2015 Seung Hoon Lee, M.D., Ph.D. candidate at the Korea Advanced Institute of Science & Technology  
2015: completed residency in Neurosurgery, Sungkyunkwan University School of Medicine at Samsung Medical Center, Seoul, Korea
- 2005 Brendan Fletcher, M.D., M.D. candidate, class of 2007, St. Georges University, London, England
- 2005-2006 Gargi Khare, M.D., M.D. candidate, class of 2009, Johns Hopkins University SOM  
2009 – Residency in Ophthalmology, Massachusetts Eye & Ear, Harvard University  
2014 – Assistant Professor of Ophthalmology, Duke University
- 2006-present Li-Mei Lin, M.D., M.D. candidate, class of 2006, Johns Hopkins University SOM  
2007-2014: resident in Neurosurgery, Johns Hopkins University SOM  
2014 – Assistant Professor of Neurosurgery, University of California, Irvine
- 2006-2013 Pablo Recinos, M.D., resident in Neurosurgery, Johns Hopkins SOM, 2006-2013  
2013 – Assistant Professor of Neurosurgery, Cleveland Clinic, Cleveland, OH
- 2007 Muraya Gathinji M.D., M.D. candidate class of 2008, Johns Hopkins University SOM  
2008 – Matched at UCLA Neurosurgery Residency  
General Surgery, Los Angeles, CA
- 2007-2008 Arielle Stewart, M.D. candidate, class of 2011, Johns Hopkins University SOM
- 2008-present Catherine Christie, M.D. M.D. candidate class of 2009, University of California at San Francisco, San Francisco, CA  
2010-2017 – resident in Neurosurgery, University of California at Irvine, Irvine, CA  
2017-2018 – fellow in Pediatric Neurosurgery, Children’s Hospital of Pennsylvania
- 2009-present Jennifer Cheng, M.D.  
2009 – M.D. candidate, class of 2009, Johns Hopkins University SOM  
2009-2016: resident in Neurosurgery, Johns Hopkins University SOM  
2016-2017: fellow in Functional Neurosurgery, Emory University  
2017-present: Assistant Professor of Neurosurgery, University of Kansas
- 2010-2013 Jessie Koljonen B.A. 2013, Johns Hopkins University  
2016 – University of Arizona School of Medicine
- 2010-2013 Benjamin Elder, M.D., resident in Neurosurgery, Johns Hopkins 2010-2017  
2017 – Assistant Professor of Neurosurgery, Mayo Clinic
- 2011-2012 Kyriakos Papadimitriou, M.D., M.D. candidate, class of 2013, Cyprus

- 2013-14: Post-graduate Neurosurgery research fellow at the University of Miami, Miami, FL  
 2014-15: pre-residency fellowship in Neurosurgery, University of Miami. Miami, FL
- 2011-2014 Joe Molenda, B.A., M.D. candidate, class of 2014, Johns Hopkins University SOM  
 2014 – Resident in Neurosurgery, Rush University, Chicago, IL
- 2011-present Wuyang Yang, M.D. Post-graduate research fellow, Department of Neurosurgery, Johns Hopkins University SOM  
 2017-2024: resident in Neurosurgery, Johns Hopkins University SOM
- 2011-present Chad Gordon, D.O. Assistant Professor, Department of Plastic & Reconstructive Surgery, Johns Hopkins University SOM  
 2017 – Associate Professor of Plastic & Reconstructive Surgery
- 2011-present Maria Braileanu, B.A. 2011, Johns Hopkins University, M.D. candidate, class of 2015, George Washington University School of Medicine, Washington, DC  
 2015 – Resident in Radiology, Emory University
- 2011-present Nanyi (Julia) Zhao, B.A. 2013, Johns Hopkins University, MPH 2015, Johns Hopkins School of Public Health, Baltimore, MD  
 2017 – Ph.D. candidate, Mount Sinai School of Medicine
- 2012-present Justin Caplan, M.D., Resident in Neurosurgery, Johns Hopkins University SOM, 2009-2016  
 2013-4 Fellow, CAST Cerebrovascular Fellowship, Department of Neurosurgery, Johns Hopkins  
 2016–17 Fellow in Endovascular Neurosurgery, University of Miami  
 2017 – Assistant Professor of Neurosurgery, Johns Hopkins University SOM
- 2012-2016 Joanna Wang, B.S., M.D. candidate, class of 2016, Johns Hopkins University SOM  
 2016 – Internal Medicine residency at Johns Hopkins University
- 2012-2016 Mira Patel, B.A., M.D. candidate, class of 2016, Johns Hopkins University SOM
- 2012-2016 Christine Boone, B.A., M.D., Ph.D. candidate, Johns Hopkins University SOM  
 2018 – Interventional Radiology residency at University of California San Diego
- 2013-2016 Eric Sankey, B.A., M.D. candidate, class of 2016, Johns Hopkins University SOM  
 2016 – Neurosurgery residency at Duke
- 2013-present Aduare Nwaba, B.A. class of 2016, Princeton University  
 2018 – M.D. candidate, University of Michigan, class of 2022
- 2013-2014 Hanbin Shang, M.D., research fellow, Attending Neurosurgeon, Rui Jin Hospital, Shanghai Jiao Tong University School of Medicine, Shanghai, China
- 2013-present Zhikui Wei, Ph.D., M.D. candidate, class of 2016, Johns Hopkins University SOM

- 2016 - Neurosurgery residency at University of Wisconsin  
 2018 – Neurology residency at Vanderbilt
- 2013-2018 Ivan Kotchetkov, M.D., Resident in Neurology, Johns Hopkins University SOM, 2013-2018  
 2018 – Fellowship in NeuroOncology, Memorial Sloan-Kettering Cancer Center
- 2014-2016 Xiaoming Rong, M.D. clinical research fellow, Sun Yat Sen University (SYSU in Guangzhou, China) Fellows Program with JHUSOM  
 2015 – Attending in Neurology, Guangzhou, China
- 2014-present Alice Hung, M.D. candidate, class of 2018, Johns Hopkins University SOM  
 2018 – Neurosurgery residency, Johns Hopkins University SOM
- 2014-present Senior Advisory Council Member, Office of Faculty Development
- 2014-present Jose (Tito) Porras, M.D. candidate, class of 2018, Geisel School of Medicine at Dartmouth  
 2018 – Neurosurgery residency, Johns Hopkins University SOM
- 2015-2017 Heather Anderson-Keightly, B.S., class of 2016, Brown University  
 2016-17: research assistant, Radiation Oncology, Johns Hopkins University SOM  
 2017-: Ph.D. candidate, McGill University
- 2015-present Jody Law, B.S. candidate, class of 2017, Johns Hopkins University
- 2015-present Eunice Allyana Philadelphia, B.S. candidate, class of 2018, University of Delaware
- 2015-present Deanna Sasaki-Adams, M.D., Assistant Professor of Neurosurgery, University of North Carolina
- 2015-present Mohamed Khattab, M.D. candidate, class of 2016, Johns Hopkins University SOM  
 2016 – Neurosurgery resident at NYU  
 2017 – Radiation Oncology resident at Vanderbilt
- 2016-2018 Leila Mashouf, B.S. candidate, class of 2018, Johns Hopkins University  
 2018 – M.D. candidate, Harvard Medical School, class of 2022
- 2016-2018 Adela Wu, M.D. candidate, class of 2018, Johns Hopkins University SOM  
 2018 – Neurosurgery residency, Stanford University
- 2016-2018 Gabriel Santiago, M.D.; first Neuroplastic Surgery Fellow
- 2017 Sean Li, class of 2018, Centennial High School, Columbia, MD  
 2018 – B.A. candidate, Duke University, class of 2022
- 2017-2018 Amir Wolff, D.M.D, Neuroplastic Surgery research fellow

- 2017-present Jason Liew, M.D. candidate, class of 2021, Johns Hopkins University SOM
- 2017-present Yuxi Chen, B.S. candidate, class of 2019, Johns Hopkins University
- 2017-present Karen Sfanos, Ph.D. Associate Professor of Pathology, Johns Hopkins University SOM
- 2018 Christopher Chen, class of 2019, Centennial High School, Columbia, MD

### **Educational Program Building**

- 1/2007 – 8/2013 Neurosurgery Sub-internship, Johns Hopkins University School of Medicine, Course Director, 20-30 senior medical students/year
- 1/2007 – 8/2013 Clinical Elective in Neurosurgery, Johns Hopkins University School of Medicine, Course Director, 5-8 senior international medical students/year
- 1/2007 – 8/2013 Introduction to Neurosurgery, Johns Hopkins University School of Medicine, Course Director, 2-4 senior medical students/year
- 2009 – 8/2013 Nervous system & Special Senses section of the Genes-to-Society course, Johns Hopkins University School of Medicine, Curriculum Committee, Neurosurgery Module Leader
- 2011-present Neurosurgery Clinical Observership, Director, China Region
1. Dr. Yuanli Zhao, Tiantan Hospital, Beijing, China
  2. Dr. Jun Huang, Xinya Hospital, Changsha, Hunan, China
  3. Dr. Wang Liang, Tangdu Hospital, Fourth Military Medical University, Xi'an, Shaanxi, China
  4. Dr. Gang Lyu, Tiantan Hospital, Beijing, China
  5. Dr. Zhi Gang Lan, West China Hospital, Chengdu, Sichuan, China
  6. Dr. Wei Sun, San Boai Hospital, Beijing, China
  7. Dr. Weixi Jiang, Xinya Hospital, Changsha, Hunan, China
  8. Dr. Dong Chen, Dalian Hospital Center, Dalian, China
  9. Dr. Xu Wu, Zhejiang Province People's Hospital, Hangzhou, China
  10. Dr. Jiang Liu, China-Japan Friendship Hospital, Beijing, China
- 2013-2017 Chair, Clinical Competency Committee, Johns Hopkins Neurosurgery Residency Program
- 2013-present Chair, Program Review Committee, Johns Hopkins Neurosurgery Residency Program
- 2013 Established CAST-accredited Fellowship in Cerebrovascular Surgery
- 2016 Expanded Johns Hopkins Neurosurgery Residency Program to 4 residents per year

### **CLINICAL ACTIVITIES**

#### **Certification**

##### *Medical*

- 1998-2002 New York State Medical License # 210910
- 2002-present Maryland State Medical License # D0058985

##### *Boards*

- 1996 Diplomate, National Board of Medical Examiners
- 2006 Certified, American Board of Neurological Surgeons
- 2010 American Board of Neurological Surgeons, mini-cycle 1 completion for Maintenance of Certification
- 2013 American Board of Neurological Surgeons, mini-cycle 2 completion for Maintenance of Certification



2016 American Board of Neurological Surgeons, mini-cycle 3 completion for Maintenance of Certification

### **Clinical Responsibilities**

- 2002-present Adult Neurosurgery Clinic:  
Johns Hopkins Hospital: 7 hours / week x 48 weeks / year (4-6 new patients and 8-10 established patients / week)  
Johns Hopkins Bayview Medical Center: 6 hours /week x 48 weeks / year (2-4 new patients and 6-8 established patients / week)
- 2002-present Neurosurgical Operations: 2-4/week x 48 weeks / year (16 hours / week)
- 2005-2018 Hopkins Access Line (HAL) Neurosurgery On-call, 3 weeks/year  
 4 weeks/year (2002-5)
- 2002-present General Neurosurgery Consultation/On-call at Johns Hopkins Bayview Medical Center  
 26 weeks/year (2002-2005)  
 18 weeks/year (2005-2007)  
 13 weeks/year (2007-2009)  
 11 weeks/year (2009-2011)  
 9 weeks/year (2011-2017)  
 18 weeks/year (2018-)
- 2002-present Cerebrovascular Neurosurgery Consultation/On-call  
 13 weeks/year (2002-6)  
 26 weeks/year (2007-2010)  
 17 weeks/year (2010-2013)  
 13 weeks/year (2014-2017)  
 18 weeks/year (2018-)

### **Clinical Program Building**

- 2013 – present Multidisciplinary Adult Cranioplasty Center (MACC); Neurosurgery Co-Director with Plastic Surgery Co-Director Chad Gordon, D.O.
- 2016 – present Chiari Center; Co-Director with Mark Luciano, M.D.

### **SYSTEM INNOVATION AND QUALITY IMPROVEMENT ACTIVITIES**

#### **System Innovation and Quality Improvement efforts within JHM:**

- 2002-2012 Operating Room Committee, Member, Johns Hopkins Bayview Medical Center
- 2003 OR Subcommittee for Value Analysis, Member, Johns Hopkins Bayview Medical Center (financial – prioritization of inventory purchases)
- 2010-present OR Subcommittee for Case Leveling Protocol Guidelines, Member, Johns Hopkins Bayview Medical Center (process – determine appropriateness of level designations in postings for emergency operations)
- 2012 Neuroscience Working Group, Member, Johns Hopkins Clinical Research Network
- 2014-present Doctors of Service Excellence (DOSE), Member, Johns Hopkins Bayview Medical Center
- 2014-present Hickson Peer Messenger, Johns Hopkins Bayview Medical Center

- 2015-present Member, Neurosciences NCCU Operations Improvement, Johns Hopkins Bayview Medical Center
- 2016-present Surgical Value Analysis Team, Member, Johns Hopkins Bayview Medical Center
- 2016-present Committee on Performance Improvement - Out of State Volume Enhancement, Member, Johns Hopkins Bayview Medical Center
- 2016-present OR Governance Committee, Member, Johns Hopkins Bayview Medical Center

### **System Innovation and Quality Improvement efforts outside of JHM:**

- 2009 Interfacility Expert Panel, MIEMMS, Neurosurgery Representative
- 2010-14 Member, Data Safety Monitoring Board (DSMB), The Effects of Tiopronin on 3-Aminopropanal Levels & Neurologic Outcome after Subarachnoid Hemorrhage, Phase II Clinical Trial, PI: E. Sander Connolly, Jr.
- 2010-present Brain Attack Coalition (BAC), National Institute of Neurological Disorders & Stroke / National Institutes of Health, Representative of the Joint Cerebrovascular Section of the American Association of Neurological Surgeons and Congress of Neurological Surgeons
- May, 2013 Comprehensive Stroke Center Certification, Technical Advisory Panel, Member, The Joint Commission, Chicago, IL
- 2016-present Chair, Data Safety Monitoring Board (DSMB), Statin Neuroprotection and Carotid Endarterectomy (STANCE): Safety, Feasibility and Outcomes Clinical Trial
- 2017-present NIH StrokeNet External Oversight Board (EOB), Member

### **Production of guidelines:**

- 2010-present Brain Attack Coalition, Representative of the Joint Cerebrovascular Section of the American Association of Neurological Surgeons and Congress of Neurological Surgeons
- Developed guidelines for Acute Stroke Ready Hospital Certification: Alberts MJ, Wechsler LR, Jensen MEL, Latchaw RE, Crocco TJ, George MG, Baranski J, Bass RR, Ruff RL, **Huang J**, Mancini B, Gregory T, Gress D, Emr M, Warren M, Walker MD. Formation and Function of Acute Stroke-Ready Hospitals Within a Stroke System of Care: Recommendations from the Brain Attack Coalition. *Stroke*. 2013 Dec; 44(12):3382-93.
  - Developed guidelines for updates in stroke care: Mark J Alberts MD, Mary G George MD, Lawrence Wechsler MD, Dheeraj Gandhi MD, Todd Crocco MD, **Judy Huang MD**, Glenn Graham MD, Daryl Gress MD, Lee Jensen MD, Andy Jagoda MD, Jalil Bentaleb, Stephanie Mohl, Peter Taillac MD, Matt Lopez, Marian Emr, Margo Warren, Michael Walker MD. Revised and Updated Recommendations for Acute Stroke Ready Hospitals, Primary Stroke Centers, Comprehensive Stroke Centers, and Stroke Systems of Care. (in preparation)

### **System Innovation and Quality Improvement Program Building/Leadership:**

- 2013 Choosing Wisely – Neurosurgery Physician Sponsor (clinical outcomes and financial – impact on readmissions/length of stay/hospital charges with revised Physical & Occupational Therapy orders in Physician Order Entry electronic medical record system), Johns Hopkins Hospital
- 2014-2016 Neurosurgery Physician Assistant Program Evaluation and Operational Management, Johns Hopkins Hospital

## **ORGANIZATIONAL ACTIVITIES**

### **Institutional Administrative Appointments**

- 2003-2008 Member, Neurology/Neurosurgery Appointments & Promotions Committee, Johns Hopkins University School of Medicine
- 2003 Member, Medical School Council Subcommittee on Junior Faculty Advancement, Johns Hopkins University School of Medicine
- 2005-2008 Member, Practice Management Committee of Clinical Practice Association, Johns Hopkins University School of Medicine
- 2005-2009 Representative, Department of Neurosurgery, Medical School Council, Johns Hopkins University School of Medicine
- 2006 Participant, Johns Hopkins School of Medicine LCME Survey Visit
- 2013-2014 Grievance Panel Member, Johns Hopkins University School of Medicine
- 2014-present Member, Office of Faculty Development Senior Advisory Council
- 2014-present Peer Messenger, Program to Promote Professional Accountability
- 2015 Search Committee for Division Chief of Spinal Neurosurgery, Department of Neurosurgery, Johns Hopkins School of Medicine
- 2015-present Professorial Promotions Committee, Johns Hopkins University School of Medicine
- 2015-7 Search Committee Member for Director of Neuroscience Critical Care Unit, JHUSOM
- 2016-7 Search Committee Member for Director of Radiology, Johns Hopkins University SOM
- 2017 Search Committee Member for Director Perioperative, Johns Hopkins Hospital
- 2017-8 Search Committee Member for Neurosurgical Oncology faculty, Department of Neurosurgery, Johns Hopkins University SOM
- 2018 Search Committee Member for Director of Endovascular Neurosurgery, Department of Neurosurgery, Johns Hopkins University SOM
- 2018 Internal Reviewer, Department of Anesthesiology & Critical Care Medicine, Johns Hopkins University SOM
- 2018 Search Committee Member for Director of Neuroradiology, Department of Radiology, Johns Hopkins University SOM

## **Editorial Activities**

### ***Editorial Board appointments***

- 2002-2005 Administrative Editor and Course Director, Practical Reviews in Neurosurgery, Oakstone Medical Publishing
- 2011-present Consulting editor, Thieme Medical Publishers
- 2014-present Associate Editor, Cerebrovascular, Neurosurgery
- 2015-present Editorial Board, Stroke & Vascular Neurology

2016-2017 Editorial Board, Chinese Neurosurgical Journal

### ***Journal Reviewer, ad hoc***

2006-present Journal of Neurology, Neurosurgery, & Psychiatry  
 2007-present Stroke  
 2009-2014 Neurosurgery  
 2010-present PLoS ONE  
 2014-present World Neurosurgery  
 2016-present Operative Neurosurgery  
 2017-present Journal of Craniofacial Surgery

### **Neurosurgical Professional Societies, Committee Service**

- 1996-present Member, American Association of Neurological Surgeons (AANS)
- 2006-9, Member, Joint AANS/CNS Committee on Coding & Reimbursement
  - 2009, Member, Annual Meeting Abstract Selection Committee
  - 2011, Member, Annual Meeting Abstract Selection Committee
  - 2013, Member, Annual Meeting Abstract Selection Committee
  - 2014, Member, Annual Meeting Abstract Selection Committee
  - 2015, Member, Annual Meeting Abstract Selection Committee
  - 2016, Member, Annual Meeting Abstract Selection Committee
- 1997-present Member, Congress of Neurological Surgeons (CNS)
- 2006, Member, Annual Meeting Abstract Selection Committee
  - 2007, Member, Annual Meeting Abstract Selection Committee
- 1997-present Member, Women in Neurological Surgery (WINS)
- 2007-2013 Executive Council Member, Neurosurgical Research and Education Foundation (NREF), American Association of Neurological Surgeons
- 2008-present Elected Member, Neurosurgical Society of America (NSA)
- 2010-11 Member, Annual Meeting Scientific Program Committee
  - 2013-14 Chair, Annual Meeting Scientific Program Committee
  - 2013-15 Executive Committee
  - 2014-15 Member and CME Liaison, Annual Meeting Scientific Program Committee
  - 2015-16 Councilor
  - 2016-19 Secretary
- 2010-present Member, Executive Committee, Joint Cerebrovascular Section of the AANS/CNS
- 2011-present Member, Stroke Council, American Heart Association/American Stroke Association (AHA/ASA)
- 2016-19 Category Chair, Program Committee, Vascular Malformations, International Stroke Conference (ISC)
- 2013-present Elected Member, Society of Neurological Surgeons (SNS)
- 2014-2016 Member, SNS Membership Committee
  - 2015-present Member, SNS Undergraduate Education Committee

- 2016-2017 Chair, SNS Membership Committee

- 2014-present American Board of Neurological Surgery (ABNS)
- Guest Examiner, Oral Boards Examination, May 2014
  - Primary Boards questions contributor, July 2014 and 2017
  - Guest Examiner, Oral Boards Examination, Nov 2016
  - ABNS Scholar/Examiner, 2017-present
  - Examiner, Oral Boards Examination, May 2018

### **Conference Organizer, Session Chair**

#### International

- 3/5-3/9/12 Conference Organizer, “Top of World Meets Top of China” Joint Neurosurgical Symposium: Beijing, Xian, and Shanghai, China
- 6/8-6/11/14 Scientific Program Chair, Neurosurgical Society of America, 67<sup>th</sup> Annual Meeting, St-Andrews, New Brunswick, Canada
- 11/5-11/6/16 Co-Director, 2<sup>nd</sup> Annual Selected Topics in Craniomaxillofacial Surgery: An International Cranioplasty Symposium, Baltimore, MD
- 2/22-2/24/17 Session Chair, Vascular Malformations, International Stroke Conference, Houston, TX
- 11/3-11/5/17 Co-Director, 3<sup>rd</sup> Annual Selected Topics in Neuroplastic and Reconstructive Surgery, Boston, MA
- 2/21-2/23/18 Session Chair, Vascular Malformations, International Stroke Conference, Los Angeles, CA

#### National

- 4/2010 Session Chair, 64<sup>th</sup> Annual Meeting, Neurosurgical Society of America, Pebble Beach, CA
- 2/2013 Session Moderator, Annual Meeting, Joint Cerebrovascular Section of the AANS/CNS, Honolulu, HI
- 4/2015 Scientific Program Committee Member and CME Liaison, Neurosurgical Society of America, 68<sup>th</sup> Annual Meeting, Newport Beach, CA
- 2/2016 Session Moderator, Annual Meeting, Joint Cerebrovascular Section of the AANS/CNS, Los Angeles, CA
- 6/2016 Session Chair, “Diversity in Neurosurgery,” Annual Meeting, Society of Neurological Surgeons, Indianapolis, IN
- 5/2017 Session Moderator, “The Art of Resilience/Well-being,” Annual Meeting, Society of Neurological Surgeons, Houston, TX
- 10/2017 Seminar Moderator, “Hematology and Coagulation for Neurosurgeons,” Annual Meeting, Congress of Neurological Surgery, Boston, MA

### **RECOGNITION**

#### **Awards, Honors**

- 1987 Westinghouse National Science Talent Search, Semifinalist
- 1987 National Junior Science & Humanities Symposium, Finalist
- 1991 Center for Neural Sciences Teaching Award, Brown University
- 2000 Charles Elsberg Award in Neurosurgical Research, New York Neurosurgical Society
- 2002 Housestaff Award for Excellence in Clinical Trials, New York Presbyterian Medical Center
- 2006 Young Clinician Investigator Award, Neurosurgery Research and Education Foundation, AANS

- 2006 Neurosurgery Chairman's Teaching Award, Department of Neurosurgery, Johns Hopkins University School of Medicine
- 2006-2008 Clinician Scientist Award, Role of Estrogen on Matrix Metalloproteinase Mediated Vascular Remodeling in Cerebral Ischemia, Johns Hopkins University School of Medicine
- 2007 "Top Doctor in Baltimore," by Baltimore Magazine
- 2010-2011 Catch a Shining Star Award, Johns Hopkins Bayview Medical Center
- 2011 Richard J. Otenasek Faculty Teaching Award, Voted by the Johns Hopkins Neurosurgical Housestaff
- 2011 Miller-Coulson Academy for Clinical Excellence Inductee, Johns Hopkins University School of Medicine
- 2011- 2015 "Top Doctor" by Castle Connolly, America's Top Doctors
- 2014 "Top Doctor in Baltimore," by Baltimore Magazine
- 2015 Excellence in Service and Professionalism Award for Clinical Excellence, 1<sup>st</sup> Annual Office of Johns Hopkins Physicians Celebration of Clinical Excellence
- 2016 Mentor-Mentee Clinical Science Research Award, Office of Post-Doctoral Affairs, Johns Hopkins University
- 2017 Alpha Omega Alpha

### **Invited Talks, Panels**

#### Named Lectureships

- 10/6/16 5<sup>th</sup> Annual Noah Duncan Lectureship: "Tailored Management of AVMs," University of North Carolina, Chapel Hill, NC

#### Honored Guest Speaker

- 11/2008 Taiwanese Neurooncology Society, Annual Meeting. Taichung, Taiwan.  
"Surgical Management of Complex Middle Cerebral Artery Aneurysms" and  
"Neurosurgical Residency Education in the United States: Training the Future"
- 2/16-2/19/17 Texas Association of Neurological Surgeons (TANS) Annual Meeting, Bastrop, TX  
"Ischemic and Hemorrhagic Strokes – Role of the Neurosurgeon" and  
"Management of Unruptured Intracranial Aneurysms"

#### International

- 2/2006 Visiting Professor, Department of Neurosurgery, Shandong University Provincial Hospital, "Management of Carotid Artery Disease" and "Matrix Metalloproteinases in Cerebral Ischemia," Jinan, China
- 9/2006 Speaker, International Symposium on Severe Acquired Brain Lesions "Modern Neurosurgical Treatment of Cerebral Aneurysms, Arteriovenous and Cavernous Malformations," Cassino, Italy
- 12/2006 Visiting Professor, Department of Neurosurgery, Taichung Veterans Hospital, "Management of Intracranial Aneurysms: Coiling and Clipping," Taichung, Taiwan
- 12/2006 Keynote Speaker, International Conference on Cerebrovascular Surgery. "Contralateral Approach to Aneurysms: Which Ones Are Favorable?" Taipei, Taiwan

- 5/2009 Visiting Professor, Department of Neurosurgery, Beijing Tiantan Hospital, “Surgical Strategies for Complex Middle Cerebral Artery Aneurysms,” Beijing, China
- 5/2009 Keynote Speaker, Spring Course, World Federation of Neurological Surgeons, “Update on Extracranial Carotid Revascularization” and “Pushing the Limits of the Pterional Craniotomy,” Guiyang, China
- 8/2010 Faculty, Joint Neurosciences Symposium - JHH-Fundacion Santa Fe De Bogota. “Treatment of aneurysms and subarachnoid hemorrhage: coiling vs. clipping, an ongoing debate,” Bogotá, Colombia
- 3/2011 Faculty, Joint Neurosurgery Symposium, Seoul National University Hospital. “Hypothermic Circulatory Arrest for Giant Aneurysms” and “Surgical Treatment of Carotid Artery Stenosis,” Seoul, South Korea
- 3/2012 Faculty, “Top of World Meets Top of China” Joint Neurosurgical Symposium, “Management of Dural AV Fistulas,” Beijing, China
- 9/2012 Keynote Speaker, Taiwanese Neurooncology Society, Annual Skull Base Meeting, “Cranio-cervical Junction Dural AV Fistulas,” Taichung, Taiwan
- 9/2012 Visiting Professor, Department of Neurosurgery, Tze-Chi General Hospital, “Current Concepts in the Surgical Management of Carotid Artery Stenosis,” Hualien, Taiwan
- 12/2013 Keynote Speaker, Hunan Neurosurgical Society Annual Meeting, “Unruptured Intracranial Aneurysms: Why Treat?” and “Current Concepts in Surgical Management of Carotid Artery Stenosis,” Changsha, Hunan, China
- 8/2014 Visiting Faculty, “Residency Training: Role of Program Director”, Sun Yat-sen University School of Medicine, Guangzhou, China
- 12/2015 Keynote Speaker, 1<sup>st</sup> Annual Huashan-Tiantan International Conference, “Tailored Decision Making in Aneurysm Treatment,” Shanghai, China
- 6/2017 Keynote Speaker, 12<sup>th</sup> Annual Congress of the Chinese Neurosurgical Society, “Neurosurgical Residency – Training the Future,” Wuhan, Hubei, China
- 6/2017 Invited Speaker, 12<sup>th</sup> Annual Congress of the Chinese Neurosurgical Society, “Hemorrhagic Risk of Arteriovenous Malformations,” Wuhan, Hubei, China
- 6/2017 Keynote Speaker, 12<sup>th</sup> Annual Congress of the Chinese Neurosurgical Society, “Neurosurgical Residency Training – Role of the Program Director,” Wuhan, Hubei, China
- 5/2018 Invited Speaker, 4<sup>th</sup> Annual Neurospine Summit, Clemenceau Medical Center, Beirut, Lebanon  
 “Update in Strokes”  
 “New Surgical Approaches to Intracerebral Hemorrhage”  
 “Why Treat Unruptured Intracranial Aneurysms?”

### National

- 4/2004 Invited Speaker, Grand Rounds, Department of Neurology, New York Hospital, Cornell University, “Surgical Management of Carotid Artery Stenosis,” New York, NY

- 2/2007 Visiting Professor, Department of Neurological Surgery, University of California San Francisco, "Management of Carotid Artery Stenosis: Update on Endarterectomy and Stenting," San Francisco, CA
- 3/2008 Invited Panelist, Society for Interventional Radiology, Annual Meeting. "Carotid Interventions: Perspectives from Cerebrovascular Neurosurgery," Washington, D.C.
- 8/2009 Faculty, Summer Course for Clinical and Translational Research in the Neurosciences. American Neurological Association. "Issues with New Interventional Devices and Procedures," Aspen, CO
- 9/2011 Visiting Professor, Department of Neurological Surgery, Stanford University, "Modern Management of DAVFs," Palo Alto, CA
- 10/2013 Visiting Professor, Department of Neurological Surgery, University of California at Irvine, "Unruptured Intracranial Aneurysms – Why Treat?" Irvine, CA
- 5/2015 Plenary Session Speaker, American Association of Neurological Surgeons 83<sup>rd</sup> Annual Meeting. "Serial imaging surveillance for patients with a history of intracranial aneurysm: risk of de novo aneurysm formation" Washington, D.C.
- 5/2015 Invited Panelist, Women in Neurosurgery Symposium, American Association of Neurological Surgeons 83<sup>rd</sup> Annual Meeting. "How to Succeed in Residency" Washington, D.C.
- 9/2015 Faculty, Selected Topics in Craniomaxillofacial Surgery: 1<sup>st</sup> Annual Multidisciplinary Harvard-Hopkins Symposium on Cranioplasty, "Decompressive Craniectomy: Indications and Outcomes" Boston, MA
- 11/2015 Visiting Professor, Department of Neurological Surgery, Columbia University, "Controversies in AVM Management" New York, NY
- 2/2016 Visiting Professor, Department of Neurological Surgery, University of California San Francisco, "Management of Carotid Occlusive Disease" San Francisco, CA
- 6/2016 Moderator, Society of Neurological Surgeons, Annual Meeting, "Diversity in Neurosurgery," Indianapolis, IN
- 9/2016 Invited Panelist, Women in Neurosurgery Symposium, Congress of Neurological Surgeons Annual Meeting. "How to Mentor and be Mentored" San Diego, CA
- 9/2016 Faculty, "A Multidisciplinary Course on Managing Temporal Hollowing Deformities Post-Neurosurgery": "Neurosurgical Considerations of Decompressive Craniectomy," Plastic Surgery – The Meeting, Los Angeles, CA
- 10/2016 Visiting Professor, Department of Neurosurgery, University of North Carolina, Chapel Hill, NC
- 11/2016 Faculty, 2<sup>nd</sup> Annual Selected Topics in Craniomaxillofacial Surgery: An International Cranioplasty Symposium, "Syndrome of the Trepined," Baltimore, MD
- 2/2017 Invited Panelist, AANS/CNS Joint Cerebrovascular Section Annual Meeting, "My Approach to Complex Cases – Ischemia/Bypass," Houston, TX
- 4/2017 Invited Speaker, Neurosurgical Society of America 70<sup>th</sup> Annual Meeting, "The Expanding Role of the Cerebrovascular Microsurgeon," Ponte Vedra Beach, FL



- 7/2017 Visiting Professor, Department of Neurosurgery, Louisiana State University, “Hemorrhage Risk in Brain Arteriovenous Malformations,” Shreveport, LA
- 7/2017 Faculty, Society of Neurological Surgeons Boot Camp, Fundamental Skills Course, University of Pennsylvania, Philadelphia, PA
- 10/2017 Visiting Professor, Department of Neurosurgery, Stanford University, “Hemorrhage Risks of Arteriovenous Malformations,” Palo Alto, CA
- 10/2017 Invited Panelist, Women in Neurosurgery Symposium, Congress of Neurological Surgeons Annual Meeting. “Teaching Digital Age Learners” Boston, MA
- 7/2018 Faculty, Society of Neurological Surgeons Boot Camp, Fundamental Skills Course, University of Pennsylvania, Philadelphia, PA

### Regional

- 12/2006 Invited Speaker, Grand Rounds, Department of Medicine, Harbor Hospital, “Current Management of Cerebral Vasospasm,” Baltimore, MD
- 12/2006 Invited Speaker, Grand Rounds, Department of Medicine, Prince Georges County Hospital, “Carotid Artery Stenosis: Update on Endarterectomy and Stenting,” Cheverly, MD
- 12/2006 Invited Speaker, Grand Rounds, Department of Medicine, Suburban Hospital, “Carotid Artery Stenosis: Update on Endarterectomy and Stenting,” Bethesda, MD
- 2/2007 Invited Speaker, Grand Rounds, Department of Medicine, St. Agnes Hospital, “Current Management of Intracerebral Hemorrhage,” Baltimore, MD
- 2/2007 Invited Speaker, Grand Rounds, Department of Medicine, St. Joseph’s Hospital, “Management of Carotid Artery Stenosis: Update on Endarterectomy and Stenting,” Towson, MD
- 6/2008 Invited Speaker, Grand Rounds, Department of Medicine, Suburban Hospital, “Intracerebral Hemorrhage: Past, Present, and Future,” Bethesda, MD
- 4/2011 Invited Speaker, Grand Rounds, Department of Medicine, Suburban Hospital, “Current Strategies for Unruptured Cerebral Aneurysms,” Bethesda, MD
- 4/2011 Invited Speaker, Grand Rounds, Department of Medicine, St. Joseph’s Hospital, “Current Strategies for Unruptured Cerebral Aneurysms,” Towson, MD
- 11/2015 Invited Speaker, Maryland Comprehensive Stroke Conference 2015, “Aneurysmal Subarachnoid Hemorrhage,” Hunt Valley, MD
- 3/2016 Invited Speaker, Seventh Neurocritical Care for the General and Surgical Intensivist, “Arteriovenous Malformations – Management Updates and Controversies,” Baltimore, MD
- 11/2016 Invited Speaker, “A Woman’s Journey,” Johns Hopkins Medicine, Baltimore, MD

### Invited Intramural Lectures

- 08/1994 Neurological Surgery Grand Rounds. Columbia University. “Surgical Management of Intracerebral Tumors Presenting with Seizures”, New York, NY

- 10/1995 Neurological Surgery Grand Rounds. Columbia University, "Evidence for an Intracranial Vasa Vasorum in Humans", New York, NY
- 10/1998 Neurological Surgery Grand Rounds. Columbia University, "Soluble P-Selectin Increases with Severity of Injury in A Primate Model of Stroke", New York, NY
- 10/1998 Neurological Surgery Grand Rounds. Columbia University, "NSE Levels Correlate with Neuropsychometric Performance in Carotid Endarterectomy Patients", New York, NY
- 10/1998 Neurological Surgery Grand Rounds - Neuropathology. Columbia University, "Nerve Sheath Tumors", New York, NY
- 4/1999 Neurological Surgery Grand Rounds - Neuropathology. Columbia University. "Ependymomas", New York, NY
- 5/1999 Neurological Surgery Grand Rounds - Neuropathology. Columbia University, "CNS Lymphomas", New York, NY
- 9/2000 Neurological Surgery Grand Rounds. Columbia University, "Blood-Brain-Barrier Penetration by Oxidized Vitamin C Improves Outcome in Stroke", New York, NY
- 4/2001 Neurological Surgery Grand Rounds. Columbia University "Supratentorial Compartmentalization of Intracranial Pressure in Primates", New York, NY
- 8/2002 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, "Surgical Management of Carotid Artery Stenosis", Baltimore, MD
- 10/2002 Acute Neurosciences Conference. The Johns Hopkins University School of Medicine, "Surgical Management of Carotid Artery Stenosis", Baltimore, MD
- 9/2003 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, "Carotid Artery Stenosis", Baltimore, MD
- 9/2003 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, "Gender-Based Differences in Inflammatory Mechanisms of Cerebral Ischemia", Baltimore, MD
- 12/2003 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, "Moya Disease", Baltimore, MD
- 4/2004 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, "Severe Traumatic Brain Injury", Baltimore, MD
- 9/2004 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, "Matrix metalloproteinases and cerebral ischemia", Baltimore, MD
- 10/2004 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, "Intracranial Aneurysms in the Pediatric Population", Baltimore, MD
- 2/2005 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, "Posterior Cerebral Artery Aneurysms", Baltimore, MD
- 6/2005 Biennial Meeting. The Johns Hopkins University School of Medicine, "Management of Carotid Artery Stenosis", Baltimore, MD

- 4/2006 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, “Current Strategies for Cerebral Vasospasm”, Baltimore, MD
- 6/2006 General Surgery Conference. The Johns Hopkins Bayview Medical Center, “Modern Treatment of Intracranial Aneurysms”, Baltimore, MD
- 8/2006 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, “Update on Management of Intracerebral Hemorrhage”, Baltimore, MD
- 9/2006 Johns Hopkins Community Physicians at Odenton, “Low Back Pain”, Odenton, MD
- 3/2007 Acute Neurosciences Conference. The Johns Hopkins University School of Medicine, “Update on Cerebral Vasospasm”, Baltimore, MD
- 6/2007 Biennial Meeting. The Johns Hopkins University School of Medicine, “Advances in Cerebrovascular Neurosurgery”, Baltimore, MD
- 7/2007 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, “Surgical Approach to PICA Aneurysms”, Baltimore, MD
- 9/2007 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, “Evaluation of Carotid Occlusive Disease”, Baltimore, MD
- 9/2007 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, “Intracerebral Hemorrhage: Past, Present, and Future”, Baltimore, MD
- 10/2008 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, “Microsurgical Treatment of Anterior Communicating Artery Aneurysms”, Baltimore, MD
- 2/2009 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, “Mini-Pterional Craniotomy – Technique & Applications”, Baltimore, MD
- 4/2009 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, “Update on Extracranial Carotid Revascularization”, Baltimore, MD
- 10/2009 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, “Issues with New Interventional Devices and Procedures”, Baltimore, MD
- 2/2010 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, “Evolution of Management of Cranial Dural Arteriovenous Fistulas”, Baltimore, MD
- 5/2011 Neuro-interventional Radiology Clinical Conference. The Johns Hopkins University School of Medicine, “Carotid Artery Stenosis”, Baltimore, MD
- 7/2011 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, “Microsurgery of Anterior Communicating Artery Aneurysms”, Baltimore, MD
- 5/2012 Neuroradiology Clinical Conference. The Johns Hopkins University School of Medicine, “Surgery for Carotid Artery Stenosis”, Baltimore, MD
- 8/2012 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, “Cerebrovascular Emergencies”, Baltimore, MD
- 10/2012 Neurology Resident Conference. The Johns Hopkins University School of Medicine, “Dural Arteriovenous Fistulas”, Baltimore, MD

- 5/2013 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, “Why Treat Unruptured Intracranial Aneurysms?” Baltimore, MD
- 6/2013 Neuroradiology Teaching Conference. The Johns Hopkins University School of Medicine, “Unruptured Intracranial Aneurysms – Why Treat?” Baltimore, MD
- 8/2013 Stroke Neurology Fellows Conference. The Johns Hopkins University School of Medicine, “Subarachnoid Hemorrhage: Management, Treatment, Complications”, Baltimore, MD
- 11/2013 Internal Medicine Grand Rounds. The Johns Hopkins University School of Medicine, “Unruptured Intracranial Aneurysms – Why Treat?” Baltimore, MD
- 2/2014 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, “Controversies in Management of Cerebral Arteriovenous Malformations”, Baltimore, MD
- 5/2014 Neuroradiology Teaching Conference. The Johns Hopkins University School of Medicine, “Unruptured Intracranial Aneurysms – Why Treat?” Baltimore, MD
- 10/2014 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, “What’s New in Carotid Occlusive Disease,” Baltimore, MD
- 12/2014 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, “Stroke Interventions,” Baltimore, MD
- 5/2015 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, “Serial imaging surveillance for patients with a history of intracranial aneurysm: risk of de novo aneurysm formation” Baltimore, MD
- 7/2015 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, “Guidelines for the Treatment of Unruptured Intracranial Aneurysms,” Baltimore, MD
- 7/2016 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, “Tailored Management of Arteriovenous Malformations,” Baltimore, MD
- 10/2016 Neurocritical Care Seminar. Johns Hopkins University School of Medicine, “RESCUE ICP – Neurosurgical Perspectives,” Baltimore, MD
- 12/2016 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, “Primary Intracerebral Hemorrhage – Role of the Neurosurgeon,” Baltimore, MD
- 10/2017 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, “Teaching Digital Age Learners – Changing the Way We Teach in the OR,” Baltimore, MD
- 10/2017 Radiation Oncology CNS Resident Didactics. The Johns Hopkins University School of Medicine, “Considerations in Managing Arteriovenous Malformations,” Baltimore, MD
- 3/2018 Neurosurgery Grand Rounds. The Johns Hopkins University School of Medicine, “Moya Moya Disease – What’s Behind the Smoke?” Baltimore, MD
- 5/2018 Genes to Society Nervous System and Special Senses – Case Presentation: Brainstem Cavernous Malformation. Johns Hopkins University School of Medicine, Baltimore, MD

## **OTHER PROFESSIONAL ACCOMPLISHMENTS**

**Professional Development**

- 2013           **Master Mentor Program**, Johns Hopkins University SOM
- 2014           **Leadership Development Program**, Johns Hopkins University SOM
- 2015-16       **Serving Leader Program**, Johns Hopkins University SOM
- January 2016   **Program for Chiefs of Clinical Services**, Harvard Chan School of Public Health, Boston, MA

**Oral Abstract Presentations (as Presenting Author)**

- 10/1997 Congress of Neurological Surgeons, 47<sup>th</sup> Annual Meeting, “Reductions in Length of Stay Following Carotid Endarterectomy Can Be Accomplished Without Modifying Either Anesthetic Technique or Postoperative ICU Monitoring”, New Orleans, LA
- 11/1997 Society for Neuroscience, 27<sup>th</sup> Annual Meeting, “Cerebroprotective Effects of Transforming Growth Factor -  $\beta$  in a Murine Model of Focal Cerebral Ischemia”, New Orleans, LA
- 11/1998 American Heart Association, 71<sup>st</sup> Scientific Session, “Inhibition of Factor IXa-Dependent Coagulation Improves Efficacy of tPA in Stroke Without Increasing Intracerebral Hemorrhage”, Dallas, TX
- 2/2000 AANS/CNS Joint Section on Cerebrovascular Surgery, 5<sup>th</sup> Annual Meeting, “3-Aminopropanal Levels Are Elevated in Human CSF in Association with Severity of Ischemia Cerebral Injury”, Orlando, FL
- 9/2000 Congress of Neurological Surgeons, 50<sup>th</sup> Annual Meeting, “Penetration of the Blood-Brain-Barrier by Oxidized Vitamin C Improves Outcome in Both Reperfused and Non-Reperfused Stroke”, San Antonio, TX
- 4/2001 American Association of Neurological Surgeons, Annual Meeting, “Experimental Support for the Supratentorial Compartmentalization of Intracranial Pressure”, Toronto, Canada
- 6/2004 Neurosurgical Society of America, 57<sup>th</sup> Annual Meeting, “Pediatric Intracranial Aneurysms”, Santa Fe, NM
- 6/2005 Neurosurgical Society of America, 58<sup>th</sup> Annual Meeting, “Gender-based differences in Matrix Metalloproteinase-9 after focal cerebral ischemia”, Orlando, FL
- 6/2007 Neurosurgical Society of America, 60<sup>th</sup> Annual Meeting, “Effect of estrogen on cortical remodeling”, Koehler, WI
- 6/2008 Neurosurgical Society of America, 61<sup>st</sup> Annual Meeting, “Timing of Carotid Endarterectomy in Symptomatic Carotid Stenosis”, Whistler, British Columbia, Canada
- 2/2009 AANS/CNS Joint Section on Cerebrovascular Surgery, 14<sup>th</sup> Annual Meeting, “Simvastatin for the prevention of symptomatic cerebral vasospasm following aneurysmal subarachnoid hemorrhage: a single-institution prospective cohort study”, San Diego, CA
- 6/2010 Neurosurgical Society of America, 63<sup>rd</sup> Annual Meeting, “Screening for De Novo Aneurysms”, Carmel, CA

- 10/2010 Congress of Neurological Surgeons, 60<sup>th</sup> Annual Meeting, “Risk of De Novo Aneurysm Formation in Patients with Prior Aneurysm”, Top 10 Abstract, Cerebrovascular Section, San Francisco, CA
- 6/2012 Neurosurgical Society of America, 65<sup>th</sup> Annual Meeting, “Craniocervical Junction Dural Arteriovenous Fistulas”, Deer Valley, UT
- 6/2014 Neurosurgical Society of America, 67<sup>th</sup> Annual Meeting, “Posterior Fossa Arteriovenous Malformations,” St. Andrews by the Sea, New Brunswick, Canada
- 4/2015 Neurosurgical Society of America, 68<sup>th</sup> Annual Meeting, “Impact of Resident Participation on Morbidity and Mortality in Neurosurgical Procedures: An Analysis of 16,098 Patients,” Newport Coast, CA
- 6/2016 Neurosurgical Society of America, 69<sup>th</sup> Annual Meeting, “Arteriovenous Malformations in Patients Over 60” Wicklow, Ireland

### Published Abstracts

1. Choudhri T, Angevine P, **Huang J**, Quest DO, Connolly ES, Hoh B, Heyer E, Solomon RA: Significant reductions in length of stay following carotid endarterectomy can be safely accomplished without modifying either anesthetic technique or postoperative ICU monitoring. Congress of Neurological Surgeons, 47<sup>th</sup> Annual Meeting, Neurosurgery 41: 743, 1997.
2. **Huang J**, Kim LJ, Kiesel W, Schmidt AM, Choudhri TF, Hoh BL, Connolly ES, Pinsky DJ: Inhibition of factor IXa-dependent coagulation improves efficacy of tPA in stroke without increasing intracerebral hemorrhage. American Heart Association, 71<sup>st</sup> Scientific Session. Circulation, 98(17): I-31, 1998.
3. Choudhri TF, **Huang J**, Mocco J, Zhang Y, Gallo E, McTaggart R, Artrip J, Poisik A, Kovacs S, Laufer I, Karim N, De La Paz R, Khandji A, Schwartz A, Heyer E, Dowling K, Stone G, Finck D, Popilskis S, Solomon R, Pinsky D, Emerson R, Connolly ES: Use of Intraoperative Motor Evoked Potentials to Provide Functional Confirmation of Ischemia in a Baboon Stroke Model. AANS/CNS Joint Section on Cerebrovascular Surgery, 4<sup>th</sup> Annual Meeting, J Neurosurg 90: 216A, 1999.
4. Choudhri TF, Mocco J, Kiss S, **Huang J**, Poisik A, McTaggart R, Hoh D, Bernadini G, Mayer S, Connolly ES: Elevated Soluble E-selectin Serum Levels in Poor-grade Subarachnoid Hemorrhage Patients During Vasospasm Period. AANS/CNS Joint Section on Cerebrovascular Surgery, 4<sup>th</sup> Annual Meeting, J Neurosurg 90: 226A, 1999.
5. **Huang J**, Kim LJ, Choudhri TF, Arevalo A, Poisik A, Pinsky DJ, Connolly ES: E-Selectin Blockade Reduces Cerebral Injury and Improves Postischemic Reflow in a Murine Model of Focal Cerebral Ischemia. American Association of Neurological Surgeons, Annual Meeting, J Neurosurg 90: 391A, 1999.
6. Choudhri TF, Mocco J, Kiss S, **Huang J**, Poisik A, McTaggart R, Laufer I, Bernadini G, Mayer S, Connolly ES: Soluble Adhesion Molecules in Patients with Aneurysmal Subarachnoid Hemorrhage: Elevated sICAM-1 Levels in Patients with Vasospasm. American Association of Neurological Surgeons, Annual Meeting, J Neurosurg 90: 391A, 1999.
7. Sun PZ, Zhou J, Sun W, **Huang J**, van Zijl PCM. Characterizing the evolution of the ischemic penumbra using pH weighted imaging. J Cereb Blood Flow & Metabol (25) S457, 2005.
8. **Huang J** and Tamargo RJ. Predictors of Success for the Contralateral Approach to Multiple Intracranial Aneurysms. International Stroke Conference, San Francisco, CA. Stroke (38) 2: 595, Feb 2007.
9. **Huang J**, Smith RD, Tamargo RJ. Screening for De Novo Aneurysms in Patients with a Prior History of Cerebral Aneurysm. Congress of Neurological Surgeons Annual Meeting, Neurosurgery 67(2): 542, August 2010.

10. Colby GP, Paul AR, Radvany MG, Gandhi D, Gailloud P, **Huang J**, Tamargo RJ, Coon AL. A single center comparison of coiling versus stent assisted coiling in 90 consecutive paraophthalmic region aneurysms. AANS/CNS Cerebrovascular Section Meeting. J Neurosurgery 30(2): A2, Feb 2011.
11. Yang W, Shang J, Caplan JM, Wang J, Braileanu M, Hung A, Patel V, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Arteriovenous malformations of the posterior circulation. CNS Annual Meeting. Neurosurgery 61 Suppl 1:202, Aug 2014.
12. Caplan J, **Huang J**, Tamargo R, Radvany M. Retrograde stent-assisted coil embolization of posterior communicating artery aneurysms. SNIS. J Neurointerv Surg 6 Suppl 1: A52 Jul 2014.
13. Uwandu C, Lin L, Colby G, **Huang J**, Tamargo R, Coon A. Classification of cavernous internal carotid artery tortuosity: a predictor of procedural complexity in pipeline embolization. J Neurointerv Surg. 2014 Jul; 6 Suppl 1: A62.
14. Colby G, Lin L, Nundkumar N, Jiang B, **Huang J**, Tamargo R, Coon A. Radiation dose analysis of large and giant internal carotid artery aneurysm treatment with the pipeline embolization device versus traditional coiling techniques. J Neurointerv Surg. 2014 Jul; 6 Suppl 1: A22-3.
15. Sankey EW, Lopez J, Zhong S, Jusue-Torres I, Liauw J, **Huang J**, Brem H, Gordon C. Perioperative anticoagulation increases the risk of complications after cranioplasty. Plastic & Reconst Surg. 2015 May; 135 Suppl 5: A41, 36-37.
16. **Huang J**, Wang J, Smith R, Ye X, Yang W, Caplan J, Radvany M, Colby G, Coon A, Tamargo RJ. Serial imaging surveillance for patients with a history of intracranial aneurysm: risk of de novo aneurysm formation. J Neurosurg. 2015 Aug; 123: A486.
17. Rong XM, Yang W, Garzon-Muvdi T, Caplan JM, Lim M, **Huang J**. Influence of Insurance Status on Survival of Adults with Glioblastoma Multiforme (GBM): A Population Based Study. American Association of Neurological Surgeons, 84<sup>th</sup> Annual Meeting, Chicago IL May 2, 2016. J Neurosurg 2016 Apr; 124: A1180. DOI: 10.3171/2016.4.JNS.AANS2016abstracts
18. Porras JL, Yang W, Caplan JM, Colby GP, Coon AL, Tamargo RJ, Ahn ES, **Huang J**. Mid-Term Follow-up in a North American Cohort with Moyamoya Disease. American Association of Neurological Surgeons, 84<sup>th</sup> Annual Meeting, Chicago IL May 1, 2016. J Neurosurg 2016 Apr; 124: A1147. DOI: 10.3171/2016.4.JNS.AANS2016abstracts
19. Yang W, Anderson-Keightly H, Westbroek EM, Caplan JM, Rong XM, Hung AL, Colby GP, Coon AL, Tamargo RJ, **Huang J**, Ahn ES. Long Term Hemorrhagic Risk in Pediatric Arteriovenous Malformation (AVM) Patients. American Association of Neurological Surgeons, 84<sup>th</sup> Annual Meeting, Chicago IL May 2, 2016. J Neurosurg 2016 Apr; 124: A1167. DOI: 10.3171/2016.4.JNS.AANS2016abstracts
20. Yang W, Porras JL, Xu R, Garzon-Muvdi T, Caplan JM, Colby GP, Coon AL, Tamargo RJ, **Huang J**, Ahn ES. Effectiveness of Surgical Revascularization for Stroke Prevention in Pediatric Patients With Sickle Cell Disease and Moyamoya Syndrome. Neurosurgery. 2016 Aug; 63 Suppl 1:178. doi: 10.1227/01.neu.0000489767.28771.25.

#### Oral Presentations (Presented by Co-author)

1. Kim LJ, **Huang J**, Poisik A, Pinsky DJ, Connolly ES: Ischemic severity determines degree of postischemic cerebral hypoperfusion in a reperfused murine model of stroke. American Medical Association Education and Research Foundation Eastern Student Research Forum, 24<sup>th</sup> Annual Meeting, 1998
2. Poisik A, Winfree CJ, **Huang J**, Kim LJ, Solomon RA, Connolly ES: Cigarette smoking and the development and rupture of cerebral aneurysms: implications for population screening and smoking cessation campaigns. American Medical Association Education and Research Foundation Eastern Student Research Forum, 24<sup>th</sup> Annual Meeting, 1998
3. Mongero LB, Beck JR, Kroschwitz RM, Artrip JH, **Huang J**, Connolly ES, Stone JG, Fink AD, Schwartz AE, Edwards NM: Heparin-bonded circuits and reduced anticoagulation facilitate isolated

cerebral hypothermia without intracerebral hemorrhage. American Society of Perfusionists, Scientific Conference, 1999

4. P Walczak, J Zhang, AA Gilad, DA Kedziorek, J Ruiz-Cabello, RG Young, MF Pittenger, PCM van Zijl, **J Huang**, JWM Bulte. "Magnetic Resonance Cellular Imaging As a Tool To Monitor Stem Cell Therapy For Stroke." International Ringberg Symposium. Castle Ringberg, Rottach-Egern, Lake Tegernsee, Germany, February 5-8, 2006
5. PZ Sun, J Zhou, W Sun, **J Huang**, and PCM van Zijl. "Delineating the Boundary between the Ischemic Penumbra and Regions of Oligaemia Using pH-weighted MRI (pHWI). International Society for Magnetic Resonance in Medicine, 14th Scientific Meeting, Seattle, WA, May 2006.
6. P Walczak, J Zhang, AA Gilad, DA Kedziorek, J Ruiz-Cabello, RG Young, MF Pittenger, PCM van Zijl, **J Huang**, JWM Bulte. "Monitoring of Intra-arterial Stem Cell Delivery for Stroke Treatment." The Society for Molecular Imaging. 5<sup>th</sup> Annual Meeting, Waikoloa, HI, September, 2006.
7. Gandhi D, **Huang J**, Gomez J, Kathuria S. Utility of Dyna CT in the evaluation and management of cranial and skull base arteriovenous fistulas. Society of Neurointerventional Surgery Annual Meeting, July 2010.
8. Gandhi D, Kathuria S, Subramanian P, Miller N, **Huang J**. Utility of flexible guide catheter in assisting transvenous superior ophthalmic vein (SOV) catheterization and embolization of difficult to treat carotid-cavernous/orbital fistulas. SNIS, July 2010.
9. Gandhi D, **Huang J**, Choudhary A, Kathuria S. Upper cervical spinal dural arteriovenous fistulae: An under-recognized entity? SNIS, July 2010.
10. Hanley D, Morgan TC, Li M, Chong X, Ullman N, Lane K, Aldrich F, **Huang J**, Awad I, Zuccarello M. The MISTIE trial: Surgical performance results from Tier I and Tier II. XXth European Stroke Conference, Hamburg, Germany May 24-27, 2011.
11. Wicks RT, Pradilla G, Raza SM, **Huang J**, Tamargo RJ. Effect of Temporary Clipping on Intraoperative Somato-sensory Evoked Potentials and Stroke Rates After Clipping of Intracranial Aneurysms. Congress of Neurological Surgeons, 61<sup>st</sup> Annual Meeting, October 2011.
12. Colby G, Lin L, Gomez J, Paul A, **Huang J**, Tamargo R, Coon J. Immediate Procedural Outcomes in 35 Consecutive Pipeline Embolization Cases. Congress of Neurological Surgeons, 62<sup>nd</sup> Annual Meeting, Chicago, IL, October 2012.
13. Yang W, Shang H, Caplan JM, Wang J, Braileanu M, Hung A, Patel V, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Arteriovenous Malformations of the Posterior Circulation. Congress of Neurological Surgeons, 64<sup>th</sup> Annual Meeting, Boston, MA October 2014.
14. Braileanu M, Yang W, Caplan JM, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Delayed Arteriovenous Malformation Hemorrhage Following Stereotactic Radiosurgery: Case Series. Congress of Neurological Surgeons, 64<sup>th</sup> Annual Meeting, Boston, MA October 2014.
15. Boone C, Groves M, Yang W, Caplan JM, Ahn E, **Huang J**. Pediatric Multiple Arteriovenous Malformations. AANS/CNS Joint Section on Pediatric Neurosurgery Annual Meeting, Amelia Island, FL December 2014.
16. Yang W, Caplan J, Wang J, Braileanu M, Hung A, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Delayed Hemorrhage Following Treatment of Brain Arteriovenous Malformations. AANS/CNS Joint Section on Cerebrovascular Surgery, 20<sup>th</sup> Annual Meeting, Nashville, TN February 2015.



17. Sankey EW, Lopez J, Zhong S, Jusue-Torres I, Liauw J, **Huang J**, Brem H, Gordon C. Perioperative anticoagulation increases the risk of complications after cranioplasty. The 80th Plastic Surgery Research Council (PSRC) Annual Meeting. Seattle, Washington. May, 14-16, 2015.
18. Lopez J, Zhong S, Sankey EW, Swanson EW, Susarla H, Torres I, **Huang J**, Brem H, Auwaerter P, Gordon C. Time Interval Reduction for Delayed Implant-Based Cranial Reconstruction in the Setting of Previous Bone Flap Osteomyelitis. The 95th Annual Northeastern Society of Plastic Surgery (NESPS) Annual Meeting. Philadelphia, PA. September 17-20, 2015.
19. Berli JU, Thomaier L, Zhong S, **Huang J**, Quiñones-Hinojosa A, Lim M, Weingart J, Brem H, Gordon CR. Immediate single stage cranioplasty following calvarial resection for benign and malignant skull neoplasms using customized craniofacial implants. *16th Congress of International Society of Craniofacial Surgery*. Tokyo, Japan. September 14-18, 2015.
20. Lopez J, Zhong S, Sankey EW, Swanson EW, Susarla H, Jusué-Torres I, **Huang J**, Brem H, Auwaerter PG, Gordon CR. Time Interval Reduction for Delayed Implant-based Cranioplasty Reconstruction in the Setting of Previous Bone Flap Osteomyelitis. *16th Congress of International Society of Craniofacial Surgery*. Tokyo, Japan. September 14-18, 2015.
21. Brem H, Ashayeri K, **Huang J**. *Syndrome of the Trephined*. Selected Topics in Craniomaxillofacial Surgery: 1<sup>st</sup> Annual Multidisciplinary Symposium on Cranioplasty. Boston, MA. September 20, 2015.
22. Zhong S, Schumacher M, Huang J, Gordon C. Methods to prevent and correct post-surgical temporal hollowing deformity in neurosurgical patients. *10<sup>th</sup> International Brain Injury Congress*. Amsterdam, Netherlands. March 5, 2016.
23. Rong XM, Yang W, Garzon-Muvdi T, Caplan JM, Lim M, **Huang J**. Influence of Insurance Status on Survival of Adults with Glioblastoma Multiforme (GBM): A Population Based Study. American Association of Neurological Surgeons, 84<sup>th</sup> Annual Meeting, Chicago IL May 2, 2016.
24. Porras JL, Yang W, Caplan JM, Colby GP, Coon AL, Tamargo RJ, Ahn ES, **Huang J**. Mid-Term Follow-up in a North American Cohort with Moyamoya Disease. American Association of Neurological Surgeons, 84<sup>th</sup> Annual Meeting, Chicago IL May 1, 2016.
25. Yang W, Anderson-Keightly H, Westbroek EM, Caplan JM, Rong XM, Hung AL, Colby GP, Coon AL, Tamargo RJ, **Huang J**, Ahn ES. Long Term Hemorrhagic Risk in Pediatric Arteriovenous Malformation (AVM) Patients. American Association of Neurological Surgeons, 84<sup>th</sup> Annual Meeting, Chicago IL May 2, 2016.
26. Garzon-Muvdi T, Yang W, Lim M, Brem H, **Huang J**. Atypical and Anaplastic Meningioma (AAM): Outcomes in a Population-Based Study. 2016 CNS Tumor Symposium, San Diego, CA, USA Sep 23, 2016.
27. Yang W, Xu R, Garzon-Muvdi T, Porras JL, Hui X, **Huang J**. Surgical Resection for Intracranial Malignant Teratomas – A Population Based Study. 2016 CNS Tumor Symposium, San Diego, CA, USA. Sep 23, 2016.
28. Yang W, Porras, JL, Xu R, Garzon-Muvdi T, Caplan JM, Colby GP, Coon AL, Tamargo RJ, **Huang J**, Ahn ES. (2016) Effectiveness of Surgical Revascularization for Stroke Prevention in Pediatric Patients with Sickle Cell Disease (SCD) and Moyamoya Syndrome (MMS). Congress of Neurological Surgeons, 66<sup>th</sup> Annual Meeting, San Diego, CA, USA Sep 26, 2016.

29. Yang W, Caplan JM, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Intranidal Aneurysms Do Not Increase Risk of Rupture in Patients with Intracranial AVMs. 2017 AANS/CNS Joint Cerebrovascular Section Annual Meeting, Houston, TX. Feb 21, 2017.
30. Yang W, Caplan JM, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Heterogeneity of Treatment Risk Profile in Patients with Low-Grade Arteriovenous Malformations. 2017 AANS/CNS Joint Cerebrovascular Section Annual Meeting, Houston, TX. Feb 22, 2017.
31. Yang W, Caplan JM, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Prenidal Aneurysms and Hemorrhagic Risk of Intracranial Arteriovenous Malformations. 2017 AANS/CNS Joint Cerebrovascular Section Annual Meeting, Houston, TX. Feb 22, 2017.
32. Porras JL, Yang W, Philadelphia E, Law J, Garzon-Muvdi T, Caplan JM, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Hemorrhage Risk of Brain Arteriovenous Malformations (AVMs) During Pregnancy and Puerperium in a North American Cohort. New England Neurosurgical Society Annual Meeting, Chatham, MA, Jun 24, 2017.
33. Luksik A, Yang W, Law J, Garzon-Muvdi T, Caplan JM, Colby G, Coon AL, Tamargo RJ, **Huang J**. Assessing the Role of Preoperative Embolization in the Surgical Management of Cerebral Arteriovenous Malformations. Congress of Neurological Surgeons, 67<sup>th</sup> Annual Meeting, Boston, MA October 2017.
34. Hung AL, Yang W, Braileanu M, Garzon-Muvdi T, Caplan JM, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Risk Assessment of Hemorrhage of Posterior Inferior Cerebellar Artery Aneurysms in Posterior Fossa Arteriovenous Malformations. Congress of Neurological Surgeons, 67<sup>th</sup> Annual Meeting, Boston, MA October 2017.
35. Liu PY, Welch BG, Thomas B, Li Y, Pinho M, **Huang J**, Lu HZ. Sensitivity and specificity of cerebrovascular reactivity in predicting surgical decisions in Moyamoya patients. Joint Annual Meeting ISMRM-ESMRMB. Paris, France, 19 June 2018.
36. Su P, Liu PY, Li Y, Lin ZX, Keator L, Qiao Y, **Huang J**, Hillis AE, Lu HZ. Non-contrast fingerprinting perfusion imaging reveals hemodynamic deficits in cerebrovascular diseases. Joint Annual Meeting ISMRM-ESMRMB. Paris, France. 20 June 2018.

#### Poster Presentations

1. **Huang J**, Shapiro PA: Loss, HLA and psychiatric diagnosis in idiopathic cardiomyopathy. American Psychiatric Association, Annual Meeting, 1993 (Abstr.)
2. **Huang J**, Connolly ES, Goldman JE, Holtzman RNN: Evidence for an intracranial vasa vasorum: a human autopsy study. Congress of Neurological Surgeons, 45<sup>th</sup> Annual Meeting. October, 1995 (Abstr.)
3. Fiore A, Connolly ES, **Huang J**, Winfree CJ, Solomon RA: Elevation in serum elastase levels: lack of association with A-2 macroglobulin levels or decreases in arterial elastase staining. AANS/CNS Joint Section on Cerebrovascular Surgery, 1<sup>st</sup> Annual Meeting, 1996 (Abstr.)
4. Kim S, Prestigiacomo C, Connolly ES, Singh S, **Huang J**, Guluma K, Nagase H, Solomon RA: The role of matrix metalloproteinase-9 (MMP-9) in the pathogenesis of cerebral aneurysms. NIH/AAMC, Research and Poster Session 1996 (Abstr.)
5. **Huang J**, Connolly ES, Winfree CJ, Pinsky DJ: Cerebroprotective effects of transforming growth factor -  $\beta$  in a murine model of focal cerebral ischemia. Society for Neuroscience, 27<sup>th</sup> Annual Meeting, 1997 (Abstr.)
6. **Huang J**, Hoh BL, Hoh DJ, Connolly ES, Solomon RA: Influence of appropriate microsurgical techniques on functional outcome in patients with ophthalmic aneurysms. AANS/CNS Joint Section on Cerebrovascular Surgery, 3<sup>rd</sup> Annual Meeting, 1998 (Abstr.)
7. **Huang J**, Connolly ES, Hoh BL, Choudhri TF, Solomon RA: Selective management of poor grade aneurysm patients: importance of preoperative improvement in neurological function on objective

- functional outcome. AANS/CNS Joint Section on Cerebrovascular Surgery, 3<sup>rd</sup> Annual Meeting, 1998 (Abstr.)
8. Hoh BL, **Huang J**, Choudhri TF, Connolly ES, Solomon RA: Factors influencing outcome in surgical clipping of ruptured basilar aneurysms: a ten-year experience. AANS/CNS Joint Section on Cerebrovascular Surgery, 3<sup>rd</sup> Annual Meeting, 1998 (Abstr.)
  9. **Huang J**, Kim LJ, Connolly ES, Solomon RA: Predisposition to aneurysm regrowth following treatment with Guglielmi detachable coils. ASITN/WFITN, Annual Scientific Conference, 1998 (Abstr.)
  10. Connolly ES, Heyer EJ, **Huang J**, Choudhri TF, Adams DC, Quest DO, Solomon RA: EEG during carotid endarterectomy may be associated with cerebral dysfunction. American Association of Neurological Surgeons, Annual Meeting, 1998 (Abstr.)
  11. **Huang J**, McCormick PC, Zubay GP, Connolly ES, Stein BM: The posterior approach to a series of glomus (type II) intramedullary spinal cord arteriovenous malformations. American Association of Neurological Surgeons, Annual Meeting, 1998 (Abstr.)
  12. **Huang J**, Poisik A, Kim LJ, Pinsky DJ, Connolly ES: Soluble P-selectin increases with severity of cerebral injury in a primate model of reperfused stroke. Congress of Neurological Surgeons, 48<sup>th</sup> Annual Meeting, 1998 (Abstr.)
  13. **Huang J**, Kim LJ, Pincus D, Hays AP, Bruce JN: Intracerebral granular cell tumors represent malignant transformation of low-grade astrocytomas. Congress of Neurological Surgeons, 48<sup>th</sup> Annual Meeting, 1998 (Abstr.)
  14. **Huang J**, Kim LJ, Poisik A, Connolly ES, Mealey R, Marsh HC, Pinsky DJ: sLex-glycosylated sCR1 as a novel means to improve stroke outcome in a murine model of focal cerebral ischemia. Congress of Neurological Surgeons, 48<sup>th</sup> Annual Meeting, 1998 (Abstr.)
  15. **Huang J**, Poisik A, Heyer EJ, Adams DC, Choudhri TF, Kim LJ, Quest DO, Solomon RA, Todd GJ, Connolly ES: Neuron specific enolase (NSE) levels correlate with neuropsychometric performance in patients undergoing carotid endarterectomy. Congress of Neurological Surgeons, 48<sup>th</sup> Annual Meeting, 1998 (Abstr.)
  16. Kim LJ, Huang J, Poisik A, Pinsky DJ, Connolly ES: Titration of postischemic cerebral hypoperfusion by variation of ischemic severity in a murine model of focal cerebral ischemia. Congress of Neurological Surgeons, 48<sup>th</sup> Annual Meeting, 1998 (Abstr.)
  17. **Huang J**, Tracey K, Ivanova S, Mack W, Mocco J, Haywood-Watson R, Coon A, Kiss S, Connolly ES: 3 Aminopropanal Levels are Elevated in Human CSF in Association With Severity of Ischemia Cerebral Injury. AANS/CNS Joint Section on Cerebrovascular Surgery, 5<sup>th</sup> Annual Meeting, 2000 (Abstr.)
  18. Choudhri TF, **Huang J**, Mocco J, Harfeldt E, Efros L, Klingbeil C, Vexler V, Zhang Y, Khandji A, DelaPaz R, Pinsky DJ, Connolly ES: Simultaneous E- and P-selectin Blockade Improves Outcome in a Double-Blinded, Placebo-Controlled Study of Primate Stroke. American Stroke Association, 25<sup>th</sup> International Meeting, 2000 (Abstr.)
  19. **Huang J**, Mocco J, Choudhri TF, McTaggart R, Poisik A, Popilskis S, Emerson R, DelaPaz R, Khandji A, Pinsky DJ, Connolly ES: A modified transorbital baboon model of reperfused stroke. American Association of Neurological Surgeons, Annual Meeting, 2000 (Abstr.)
  20. Mocco J, Mack W, Kiss S, Yorgason J, **Huang J**, McTaggart RA, Choudhri T, Mayer S, Bernadini G, Solomon RA, Connolly ES. Cerebral vasospasm as evidenced by transcranial doppler is associated with increases in soluble E-selectin levels. American Association of Neurological Surgeons, Annual Meeting, 2000 (Abstr.)
  21. Mack W, Oppermann M, **Huang J**, Mocco J, Choudhri T, DelaPaz R, Khandji A, Popilskis S, Connolly ES: Perfusion weighted magnetic resonance imaging (PWI) of luxury perfusion is correlated with Technetium SPECT in primate stroke. Congress of Neurological Surgeons, 50<sup>th</sup> Annual Meeting, 2000 (Abstr.)
  22. **Huang J**, Kiss S, McTaggart R, Agus D, Choudhri T, Kim L, Mocco J, Pinsky D, Fox W, Golde D, Connolly ES: Penetration of the blood-brain-barrier by oxidized vitamin C improves outcome in both reperfused and non-reperfused stroke. Congress of Neurological Surgeons, 50<sup>th</sup> Annual Meeting, 2000 (Abstr.)

23. Ivanova S, Batliwalla F, Borovikova L, Mocco J, Kiss S, **Huang J**, Mack W, Coon A, Syrek J, Haywood-Watson II R, Gregersen PK, Connolly ES, Tracey KJ: Neuroprotection in cerebral ischemia by neutralization of 3-aminopropanal. Society for Neuroscience, 30th Annual Meeting, 2000 (Abstr.)
24. **Huang J**, Mack WJ, Oppermann M, D'Ambrosio A, Ducret A, Mocco J, Connolly ES: Experimental support for the supratentorial compartmentalization of intracranial pressure. American Association of Neurological Surgeons, Annual Meeting, 2001 (Abstr.)
25. Choudhri TF, Mack W, Komotar R, Hoh D, Mocco J, **Huang J**, Winfree CJ, D'Ambrosio A, Oppermann M, DeLaPaz R, Khandji A, and Connolly ES. Early FLAIR MRI predicts radiographic outcome in a baboon model of focal cerebral ischemia. American Association of Neurological Surgeons, Annual Meeting 2001 (Abstr.)
26. Winfree CJ, Mack W, McKinnell W, **Huang J**, D'Ambrosio A, Hoh D, Nair N, Kiss S, Oppermann M, Pinsky DJ, Connolly ES. Laser Doppler Flowmetry in Non-Human Primate Stroke: Model Refinement for Pre-clinical Development of Cerebroprotective Strategies. American Association of Neurological Surgeons, Annual Meeting, 2001 (Abstr.)
27. Connolly ES, **Huang J**, Winfree CJ, D'Ambrosio A, Mack W, Kiss S, Oppermann M, Popilskis S, Dobak J, Lasheras J. Neuroprotection in a primate reperfused stroke model by delayed mild hypothermia induced using a novel intravascular cooling catheter. American Association of Neurological Surgeons, Annual Meeting, 2001 (Abstr.)
28. Senatus P, McClelland S III, Tanji K, **Huang J**, Feldstein N: Pediatric Cerebellar Glioblastoma Multiforme presenting as Supra and Infratentorial Acute Disseminated Encephalomyelitis/Gliomatosis Cerebri: A Case Report. Congress of Neurological Surgeons, 53rd Annual Meeting, 2003 (Abstr.)
29. Coon A, Woodworth GF, McGirt MJ, Mundinger GS, Foran MP, Colby GP, **Huang J**: Phenytoin Therapy Predicts Improved Functional Outcome after Acute Subdural Hematoma Evacuation. American Association of Neurological Surgeons, Annual Meeting, 2005 (Abstr.)
30. Coon AL, McGirt MJ, Woodworth G, Mundinger G, Foran M, Colby G, **Huang J**. Chronic anticoagulation with warfarin is associated with decreased functional outcome and increased length of stay following acute subdural hematoma evacuation. Congress of Neurological Surgeons, 55<sup>th</sup> Annual Meeting, 2005 (Abstr.)
31. Coon AL, McGirt MJ, Woodworth G, Mundinger G, Foran M, Colby G, **Huang J**. Independent predictors of outcome following acute subdural hematoma evacuation: a novel grading scale for outcome prediction. Congress of Neurological Surgeons, 55<sup>th</sup> Annual Meeting, 2005 (Abstr.)
32. Zhang Z, Upadhyay U, Sun W, Shah A, Pabaney A, **Huang J**. "Cortical Matrix Metalloproteinase-9 Expression Is Increased with Endogenous Estrogen in Experimental Stroke" Congress of Neurological Surgeons, 55<sup>th</sup> Annual Meeting, Boston, MA 2005 (Abstr.)
33. Walczak P, Zhang J, Gilad AA, Kedziorek DA, Ruiz-Cabello J, Young RG, Pittenger MF, van Zijl PC, **Huang J**, Bulte JW. "Dual Modality Monitoring of Intracerebral Stem Cell Delivery and Distribution Following Reperfused Ischemia." International Society for Magnetic Resonance in Medicine, 14th Scientific Meeting, Seattle, WA, 2006 (abstr)
34. Sun PZ, Zhou J, **Huang J**, van Zijl PCM. "Optimization of Irradiation Power for *in-vivo* Chemical Exchange Dependent Saturation Transfer (CEST) Imaging." International Society for Magnetic Resonance in Medicine, 14th Scientific Meeting, Seattle, WA, 2006 (Abstr)
35. Baird CJ, Lin LM, Upadhyay U, McGirt M, **Huang J**. Safety of Acute Carotid Endarterectomy in Symptomatic Carotid Stenosis. Congress of Neurological Surgeons, 56<sup>th</sup> Annual Meeting, 2006 (Abstr.)
36. McGirt M, Woodworth GF, Coon AL, Buck D, **Huang J**, Clatterbuck RE, Perler B, Tamargo RJ. Hyperglycemia independently increases the risk of perioperative stroke, myocardial infarction, and death after carotid endarterectomy. Congress of Neurological Surgeons, 56<sup>th</sup> Annual Meeting, 2006 (Abstr.)
37. Gathinji M, Upadhyay U, Rigamonti D, **Huang J**. Multimodality Treatment of Infratentorial Arteriovenous Malformations. Congress of Neurological Surgeons, 57<sup>th</sup> Annual Meeting, 2007 (Abstr.)
38. **Huang J**, Tamargo RJ. Predictors of Success for the Contralateral Approach to Multiple Intracranial Aneurysms. International Stroke Conference, San Francisco, CA, 2007 (Abstr.)
39. Coon A, Wyse G, Radvany M, Diego San Millan Ruiz, Tamargo R, **Huang J**, Gailloud P. Safety of Power-Injected 3D DSA in the Neurosurgical Patient: Experience with 283 Consecutive Angiograms. Congress of Neurological Surgeons, 59<sup>th</sup> Annual Meeting, 2009 (Abstr.)

40. Coon A, Colby F, Wyse G, Radvany M, Diego San Millan Ruiz, Tamargo R, Gailloud P, **Huang J**. Prevalence of Small Ruptured Cerebral Aneurysms Measured with 3D Digital Subtraction Angiography (DSA): Does Size Matter? Congress of Neurological Surgeons, 59<sup>th</sup> Annual Meeting, 2009 (Abstr).
41. Caplan JM, Yang W, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Improved early visual outcomes in patients with ophthalmic region aneurysms undergoing anterior clinoidectomy using the ultrasonic aspirator compared to the use of the high speed drill. Congress of Neurological Surgeons, 64<sup>th</sup> Annual Meeting, 2014.
42. Wei Z, Yang W, Caplan JM, Hung A, Braileanu M, Wang J, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Long- term outcomes of patients with giant intracranial arteriovenous malformations. Congress of Neurological Surgeons, 65<sup>th</sup> Annual Meeting, 2015.
43. Yang W, Westbroek EM, Anderson-Keightly H, Caplan JM, Rong XM, Hung AL, Colby GP, Coon AL, Tamargo RJ, Ahn ES, **Huang J**. Male Gender Associated with Post-Treatment Seizure Risk of Pediatric Arteriovenous Malformation (AVM) Patients. American Association of Neurological Surgeons, 84<sup>th</sup> Annual Meeting, 2016.
44. Yang W, Rong XM, Jiang B, Garzon-Muvdi T, Caplan JM, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Is Carotid Endarterectomy (CEA) Safe for Patients with Concomitant Carotid Stenosis and Intracranial Aneurysms? American Association of Neurological Surgeons, 84<sup>th</sup> Annual Meeting, 2016.
45. Hung AL, Yang W, Caplan JM, Braileanu M, Wang JY, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Higher Risk of Feeder Aneurysm Rupture on PICA Fed Posterior Fossa AVMS. American Association of Neurological Surgeons, 84<sup>th</sup> Annual Meeting, 2016.
46. Porras JL, Yang W, Garzon-Muvdi T, Xu R, Caplan JM, Hung AL, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Comparisons of Outcomes Between Radiosurgery and Conservative Management in Patients with Brainstem Arteriovenous Malformations (AVMs). 2016 CNS Annual Meeting, San Diego, CA, USA
47. Yang W, Braileanu M, Garzon-Muvdi T, Xu R., Caplan JM, Hung AL, Porras JL, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Hemorrhagic Risk of Intracranial Arteriovenous Malformations (AVMs) Treated with Embolization as the Single Modality. 2016 CNS Annual Meeting, San Diego, CA, USA
48. Garzon-Muvdi T, Yang W, Braileanu M, Porras JL, Caplan JM, Rong X., **Huang J**, Jallo GI. Marital Status Associated with Survival in Patients with Primary Intramedullary Spinal Cord Lymphoma. 2016 CNS Annual Meeting, San Diego, CA, USA
49. Braileanu M., Yang W, Caplan JM, Lin LM, Radvany MG, Tamargo RJ, **Huang J**. Inter-observer Agreement of Arteriovenous Malformation (AVM) Diffuseness using Digital Subtraction Angiography (DSA). 2016 CNS Annual Meeting, San Diego, CA, USA
50. Yang W, Braileanu M., Garzon-Muvdi T, Xu R., Caplan JM, Hung AL, Porras JL, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Natural History of Conservatively Managed Arteriovenous Malformations (AVMs). 2016 CNS Annual Meeting, San Diego, CA, USA
51. Yang W, Porras JL, Philadelphia E, Law J, Garzon-Muvdi T, Caplan JM, Colby GP, Coon AL, Tamargo RJ, **Huang J**. Treatment Decision for Occipital AVMS to Achieve Hemorrhagic Control while Maximizing Visual Preservation. 2017 AANS/CNS Joint Cerebrovascular Section Annual Meeting, Houston, TX, USA
52. Campos JK, Beaty NB, Colby GP, Bender MT, Jiang B, Westbroek EM, Xu R, Lin LM, **Huang J**, Tamargo RJ, Coon AL. Technical Endovascular Considerations of Intracranial Aneurysm Treatment with Single-Stage Coil-Assisted Pipeline Embolization. 2017 Johns Hopkins Postdoctoral Retreat. Johns Hopkins University School of Medicine.

### Community Service

- 5/2013 Invited Speaker, Taiwanese American Charity and Education Association, “Brain Attacks – and when Blood in the Brain is Bad” Gaithersburg, MD
- 12/2014 Invited Speaker, Baltimore Taiwanese Medical Association, “How I Got To Where I Am Now,” Columbia, MD

- 4/2015 Invited Speaker, Brain Aneurysm Foundation – Maryland Chapter, “Recovery after Brain Bleeds”,  
Lutherville, MD
- 10/2015 Invited Speaker, Taiwanese American Senior Society, “Stroke and Brain Attacks: Time is Brain”,  
Gaithersburg, MD
- 3/2018 Invited Speaker, Medical Seminar, Centennial High School, Columbia, MD