

Babak S. Jahromi, MD PhD

Education

- 2006-08 **Endovascular Fellowship, University at Buffalo**
- Neurointerventional Fellow, Millard Filmore Hospital
- 2005-06 **Endovascular Fellowship, University of Miami**
- Neurointerventional Fellow, Jackson Memorial Hospital
- 1995-99, 03-05 **Neurosurgery Residency Program, University of Toronto**
- FRCSC granted 2005; USA ABNS board-eligible
- 1999-03 **Doctor of Philosophy, The University of Chicago**
- Dept. of Neurobiology, Pharmacology and Physiology
- 1991-95 **Doctor of Medicine, University of Toronto**
- Graduated with Honors
- 1989-91 **Faculty of Arts & Science, University of Toronto**
- Completed two years in Biophysics

Research Experience

- 1999-03 • **Research Fellow:** *Potassium Channels and Cerebral Vasospasm*. Dept. of Neurobiology, Pharmacology & Physiology; Research advisor: Dr. R.L. Macdonald, Section of Neurosurgery, The University of Chicago.
- 1998-99 • **Principal Investigator:** *Role of Infectious Agents in Carotid Atherosclerosis*. In collaboration with Drs. Hutchison, Tucker and Chiu, Divisions of Cardiology, Neurosurgery, and Pathology, St. Michael's Hospital, Toronto.
- 1994-95 • **Research Student:** *Effects of BAPTA (a Neuroprotective Ca²⁺ Buffer) on Electrophysiological Characteristics and Ca²⁺ Dynamics in Rat Hippocampal Neurons*. Research advisors: Dr. P.S. Pennefather, Faculty of Pharmacy, University of Toronto, and Dr. P.L. Carlen, Toronto Western Research Institute, Toronto Western Hospital.
- 1990-93 • **Research Student:** (1) *Neural-Glial Interaction and Signalling Pathways*, (2) *Characterisation of a Novel Muscarinic Receptor*. Research advisor: Dr. M.P. Charlton, Department of Physiology, University of Toronto.

Licensure and Certification

- 06/05-current • Neurosurgeon – Canadian board-certified (Fellow of the Royal College of Surgeons of Canada), American board-eligible
- 1997 • Licenciate of the Medical Council of Canada
- 1993, '95, '97 • USMLE parts I, II, III
- Licensure: • Ontario:69129, New York: 003024

Awards

- 2004
 - K.G. McKenzie Prize (1st prize, Basic Neurosurgery Research, awarded by the Royal College of Physicians & Surgeons of Canada and the Canadian Neurosurgical Society)
 - Morley Prize (1st prize, Basic Neurosurgery Research, University of Toronto)
 - H. Ginsburg Prize (dissertation prize, Department of Neurobiology, Pharmacology and Physiology, University of Chicago)
- 2003
 - Best Poster, 10th Annual Charles Huggins Research Conference, University of Chicago
- 1998
 - Horsey Prize (1st prize, Clinical Neurosurgery Research, University of Toronto)
- 1995
 - Honors List, Class of '95, Faculty of Medicine, University of Toronto
- 1993
 - Medical Research Council of Canada Research Scholarship
 - George Brown Memorial Award (1st prize, Med. Student Research Competition, U. of T.)
 - Best Abstract in Session (Clinical Research Society of Toronto)
- 1992
 - Medical Research Council of Canada Research Scholarship
 - J.E. Beal II Award (Best paper in neuroscience, 33rd National Student Research Forum, Galveston, Texas)
 - George Brown Memorial Award (1st prize, Med. Student Research Competition. U. of T.)
 - Merck Frosst Award (Best undergrad. paper, Clinical Research Society of Toronto)
 - Upjohn Canada Award (Best talk, 12th Annual FIPP Symposium, Faculty of Med., U. of T.)
- 1991
 - Summer Research Scholarship (Life Sciences Program, Dept. of Physiology, U. of T.)
 - Faculty Scholar (Faculty of Arts & Science, U. of T.)
 - J.A. & C.P. Dickson Scholarship (Faculty of Arts & Science, U. of T.)
- 1990
 - Faculty Scholar (Faculty of Arts & Science, U. of T.)
 - A. Shepard Memorial Scholarship (Faculty of Arts & Science, U. of T.)
- 1989
 - M.H. Beatty Admission Scholarship (Fac. of Arts & Sci., U. of T.; renewed '90, '91, '92)
 - Canada Scholarship (Govt. of Canada; renewed '90, '91)
 - Ontario Scholar

Membership in Professional Societies

- American Association of Neurological Surgeons (Fellow Member)
- Canadian Neurosurgical Society
- Canadian Medical Association
- College of Physicians and Surgeons of Ontario
- Congress of Neurological Surgeons (Fellow Member)
- Ontario Medical Association
- Royal College of Physicians and Surgeons of Canada
- Society of Neurointerventional Surgery (formerly ASITN)
- Society for Neuroscience

Ad hoc Reviewer

- American Journal of Neuroradiology
- Circulation
- Medical Research Council (UK)
- Neurology
- Neurosurgery
- Stroke
- Surgical Neurology

Publications

1. Jahromi BS, Mocco J, Bang JA, Gologorsky Y, Siddiqui AH, Horowitz MB, Hopkins LN, Levy EI (2008). Clinical and angiographic outcome following endovascular management of giant

- intracranial aneurysms. **Neurosurgery** (in press).
2. Tummala RP, Jahromi BS, Yamamoto J, Levy EI, Siddiqui AH, Hopkins LN (2008). Carotid artery stenting under flow arrest for the management of intraluminal thrombus: technical report. **Neurosurgery** (in press).
 3. Delgado B, Jahromi BS, Mueller-Kronast N, Farhat H, Salame J, Zauner A (2008). Endovascular Therapy of Cerebral Vasospasm after Subarachnoid Hemorrhage: Two Year Experience with Angioplasty and/or Intraarterial Administration of Nicardipine and Verapamil. **Acta Neurochirurgica** (in press).
 4. Jahromi BS, Aihara Y, Ai J, Zhang ZD, Nikitina E, Macdonald RL (2008). Voltage-gated K⁺ channel dysfunction in myocytes from a dog model of subarachnoid hemorrhage. **J. Cerebral Blood Flow and Metabolism** 28(4):797-811.
 5. Jahromi BS, Aihara Y, Ai J, Zhang ZD, Weyer G, Nikitina E, Agbaje-Williams M, Houamed KM, Macdonald RL (2008): Preserved BK channel function in vasospastic myocytes from a dog model of subarachnoid hemorrhage. **J Vasc Res** 45(5):402-415.
 6. Jahromi BS, Aihara Y, Ai J, Zhang ZD, Weyer G, Nikitina E, Yassari R, Houamed KH, Macdonald RL (2008). Temporal profile of potassium channel dysfunction in cerebrovascular smooth muscle after experimental subarachnoid haemorrhage. **Neurosci Lett** 440(1):81-6.
 7. Aihara Y, Jahromi BS, Yassari R, Takahashi M, Macdonald RL (2008). Induction of housekeeping gene expression after subarachnoid hemorrhage in dogs. **J Neurosci Methods** 172(1):1-7.
 8. Levy EI, Mocco J, Samuelson RM, Ecker RD, Jahromi BS, Hopkins LN (2008). Optimal Treatment of Carotid Artery Disease. **J Am Coll Cardiol** 51(10):979-985.
 9. Mueller-Kronast N, Jahromi BS (2007). Endovascular treatment of ruptured aneurysms and vasospasm. **Curr Treat Options Neurol** 9(2):146-57.
 10. Xie A, Aihara Y, Bouryi VA, Nikitina E, Jahromi BS, Zhang ZD, Takahashi M, Macdonald RL (2007). Novel mechanism of endothelin-1-induced vasospasm after subarachnoid hemorrhage. **J. Cerebral Blood Flow and Metabolism** 27(10):1692-701.
 11. Nikitina E, Zhang ZD, Kawashima A, Jahromi BS, Bouryi VA, Takahashi M, Xie A, Macdonald RL (2007). Voltage-dependent calcium channels of dog basilar artery. **J. Physiol.** 580(Pt. 2):523-41.
 12. Young JB, Jahromi BS, Zhang ZD, Macdonald RL (2007). A novel device for in vitro isometric tension recordings of cylindrical artery segments. **Med. Eng. Phys.** 29(1):169-74.
 13. Weyer GW, Jahromi BS, Aihara Y, Agbaje-Williams M, Nikitina E, Zhang ZD, Macdonald RL (2006). Expression and function of inwardly-rectifying potassium channels after experimental subarachnoid hemorrhage. **J. Cerebral Blood Flow and Metabolism** 26(3):382-91.
 14. Gladstone DJ, Aviv RI, Jahromi BS, Black SE, Baryshnik D, Caratao R, Fox AJ (2006). Turning a stroke into a TIA: curative thrombolysis with combined intravenous and intra-arterial tPA. **Can. J. Emerg. Med.** 8(1):54-57.
 15. Aihara Y, Jahromi BS, Yassari R, Nikitina E, Agbaje-Williams M, Macdonald RL (2004). Molecular profile of vascular smooth muscle ion channels following experimental cerebral vasospasm. **J. Cerebral Blood Flow and Metabolism** 24(1):75-83.
 16. Reilly C, Amidei C, Tolentino J, Jahromi BS, Macdonald RL (2004). Clot volume and clearance rate as independent predictors of vasospasm after aneurysmal subarachnoid hemorrhage. **J. Neurosurgery** 101(2):255-261.
 17. Yassari R, Sayama T, Jahromi BS, Aihara R, Macdonald RL (2004). Angiographic, hemodynamic and histological characterization of an arteriovenous fistula in rats. **Acta Neurochirurgica** 146(5):495-504.
 18. Macdonald RL, Curry D, Aihara Y, Zhang Z, Jahromi BS, Yassari R (2004). Magnesium and experimental vasospasm. **J. Neurosurgery** 100(1):106-110.
 19. Jahromi BS, Hill MD, Hutchison S, Tucker WS, and Chui B (2003). *Chlamydia pneumoniae* and atherosclerosis following carotid endarterectomy. **Can. J. Neurol. Sci.** 30(4):333-9.
 20. Aihara Y, Jahromi BS, Yassari R, Sayama T, Macdonald RL (2003). Effect of nitric oxide donor on and correlation of changes in cyclic nucleotide levels with experimental vasospasm. **Neurosurgery** 52(3):661-7.
 21. Yassari R, Jahromi BS, Macdonald RL (2002). Dural arteriovenous fistula after craniotomy for pilocytic astrocytoma in a patient with protein S deficiency. **Surg. Neurol.** 58:59-64
 22. Macdonald RL, Zhang Z, Curry D, Elas M, Aihara Y, Halpern H, Jahromi BS, Johns L (2002).

Intracisternal sodium nitroprusside fails to prevent vasospasm in nonhuman primates.

Neurosurgery 51(3):761-70.

23. Jahromi BS, Komuro T, Macdonald RL, Marton LS, and Weir BK (2001). Phosphatidylcholine peroxidized by hemoglobin increases intracellular calcium in dog basilar artery smooth muscle cells. **Acta Neurochir. Supp.** 77:45-7.
24. Jahromi BS, Zhang L, Carlen PL, and Pennefather PS (1999). Differential time-course of slow afterhyperpolarizations and associated Ca^{2+} transients in rat CA1 pyramidal neurons: further dissociation by Ca^{2+} buffer. **Neuroscience** 88(3):719-726.
25. Robitaille R, Jahromi BS, and Charlton MP (1997). Muscarinic Ca^{2+} responses resistant to muscarinic antagonists at perisynaptic Schwann cells of the frog neuromuscular junction. **J. Physiol.** 504 (Pt 2): 337-347.
26. Jahromi BS, Robitaille R, and Charlton MP (1992). Transmitter release increases intracellular calcium in perisynaptic Schwann cells in situ. **Neuron** 8(6):1069-1077.

Book Chapters

1. Jahromi BS, Guidot C, Mocco J, Levy EI, Hopkins LN (*in press*). Angiographic modifications for the high-risk patient. In: *Surgical Endovascular Neuroradiology*. ed. Prestigiacomo CJ. Thieme, New York.
2. Tummala RP, Jahromi BS, Hopkins LN (*in press*). Intracranial arterial disease. In: *Peripheral Arterial Disease*. ed. Dieter R. McGraw-Hill, New York.
3. Jahromi BS, Aihara Y, Agbaje-Williams M, Nikitina E, Weyer G, Ryan D, Yassari R, Macdonald RL (2005). Potassium channels in experimental cerebral vasospasm. In: *Cerebral Vasospasm. Advances in Research and Treatment*. ed. Macdonald RL. Thieme Medical Publishers, New York.
4. Aihara Y, Jahromi BS, Yassari R, Nikitina E, Agbaje-Williams M, Macdonald RL (2005). Changes in vascular ion channels after subarachnoid hemorrhage. In: *Cerebral Vasospasm. Advances in Research and Treatment*. ed. Macdonald RL. Thieme Medical Publishers, New York.
5. Jahromi BS, Macdonald RL (2004). Vasospasm: Diagnosis and medical management. In: *Management of Cerebral Aneurysms* eds. Le Roux PD, Winn HR. W.B. Saunders, Philadelphia.
6. Jahromi BS, Tsai E, Taylor B, Tucker WS (1995). Neurosurgery. In *MCCQE Review Notes* (11th ed.) eds. Mai AL and Murray BJ. Faculty of Medicine, University of Toronto, Toronto.

Abstracts and Presentations

1. Jahromi BS, Snyder KV, Samuelson R, Levy EI, Siddiqui AH, Hopkins LN (2008). Early outcome following CT-perfusion-guided endovascular therapy for acute stroke. Poster at the *58th Annual Meeting of the Congress of Neurological Surgeons*, Sept. 20-25, Orlando, Florida.
2. Tawk RG, Tummala RP, Mocco J, Samuelson RM, Jahromi BS, Siddiqui AH, Levy EI, Hopkins LN (2008). Reversal of flow within the internal carotid artery for carotid stenting. Presentation at the 46th Annual Meeting of the American Society for Neuroradiology, June 2-5, New Orleans, LA.
3. Samuelson R, Tummala RP, Jahromi BS, Yamamoto J, Atwal G, Levy EI, Siddiqui AH, Guidot CA, Hopkins LN (2007). Aortic arch anatomy and neurologic complications with carotid stenting among octogenarians Presentation at the *57th Annual Meeting of the Congress of Neurological Surgeons*, Sept. 15-20, San Diego, California.
4. Samuelson R, Tummala RP, Jahromi BS, Yamamoto J, Tawk RG, Atwal G, Levy EI, Siddiqui A, Hopkins LN (2007). Acute stroke from traumatic carotid artery dissection successfully treated with endovascular carotid stent placement: A report of two cases. *25th Annual National Neurotrauma Society Symposium*, July 29-Aug 1, Kansas City, MO.
5. Delgado B, Jahromi BS, Mueller-Kronast N, Farhat H, Salame J, Zauner A (2007). The effect of intra-arterial vasodilators and angioplasty on arteriographic narrowing in patients with severe vasospasm. *75th Annual Meeting of the American Association of Neurological Surgeons*, April 14-19, 2007, Washington, DC.
6. Mehta R, Jahromi BS, Levy EI, Hopkins LN (2007). Early outcome following multimodality endovascular rescue in acute stroke. Presentation at the *75th Annual Meeting of the American Association of Neurological Surgeons*, April 14-19, 2007, Washington, DC.
7. Bang J, Jahromi BS, Levy EI, Hopkins LN (2007). Endovascular management of giant saccular aneurysms: clinical and radiographic outcome in 15 cases. Poster at the *75th Annual Meeting of*

- the American Association of Neurological Surgeons*, April 14-19, 2007, Washington, DC.
8. Mueller-Kronast N, Quintero-Wolfe S, Jahromi BS, Aziz-Sultan A, Rabinstein A, Zauner A (2006). Safety and feasibility of rotational 3D angiography-assisted coil embolization of very small ruptured intracranial aneurysms. *74th Annual Meeting of the American Association of Neurological Surgeons*, April 22-27, 2006, San Francisco, California.
 9. Zhang ZD, Takahashi M, Jahromi BS, Cheranov SY, Jaggar JH, Macdonald RL (2006). Reduction in calcium sparks as a cause of experimental cerebral vasospasm in dogs. *74th Annual Meeting of the American Association of Neurological Surgeons*, April 22-27, 2006, San Francisco, California.
 10. Nikitina E, Jahromi BS, Bouryi VA, Takahashi M, Zhang ZD, Macdonald RL (2006). Voltage-dependent calcium channels of dog basilar artery. *74th Annual Meeting of the American Association of Neurological Surgeons*, April 22-27, 2006, San Francisco, California.
 11. Mueller-Kronast N, Jahromi BS, Quintero S, Rabinstein AA, Zauner A (2006). Safety and feasibility of rotational 3D angiography-assisted coil embolisation of very small ruptured intracranial aneurysms. Presentation at the *9th Joint Annual Meeting AANS/CNS Cerebrovascular Section and American Society of Interventional and Therapeutic Neuroradiology*, February 17-20, 2006, Orlando, Florida.
 12. Aviv RI, Walters T, Jahromi BS, Verma R, Bartlett E, Sahlas D, Brodie D, Symons S, Fox AJ (2006). Correlation of proximal linear measure and DUS with NASCET style measure. Presentation at the *44th Annual Meeting of the American Society of Neuroradiology*, April 29 - May 5, 2006, San Diego, California.
 13. Zhang ZD, Nikitina E, Jahromi BS, Takahashi M, Macdonald RL (2005). Extracellular matrix alterations contribute to vasospasm. Poster at the *8th Joint Annual Meeting AANS/CNS Cerebrovascular Section and American Society of Interventional and Therapeutic Neuroradiology*, February 1-4, 2005, New Orleans, Louisiana.
 14. Zhang ZD, Nikitina E, Jahromi BS, Takahashi M, Macdonald RL (2005). Extracellular matrix alterations contribute to vasospasm. Poster at the *73rd Annual Meeting of the American Association of Neurological Surgeons*, April 16-21, 2005, New Orleans, Louisiana.
 15. Jahromi BS, Aihara Y, Agbaje-Williams M, Nikitina E, Weyer GW, Ryan D, Yassari R, Macdonald RL (2004). Downregulation of potassium channels after subarachnoid hemorrhage contributes to cerebral vasospasm. Presentation for the MacKenzie Prize at the *39th Canadian Congress of Neurological Sciences*, June 8-12, Calgary, Canada.
 16. Jahromi BS, Wilson DF, Izukawa DMS (2004). Occipitocervical Fusion Using The SUMMIT Occipital Plate And Polyaxial Screw-Rod System: Early Experiences And Results. Poster at the *39th Canadian Congress of Neurological Sciences*, June 8-12, Calgary, Canada.
 17. Jahromi BS, Aihara Y, Weyer GW, Nikitina E, Agbaje-Williams M, Ryan D, Yassari R, Macdonald RL (2004). Downregulation of potassium channels after subarachnoid hemorrhage: a possible mechanism for cerebral vasospasm. Presented at the *65th Annual Meeting of the American Academy of Neurological Surgery*, October 3-8, 2004, Berlin and Dresden, Germany.
 18. Weyer G, Jahromi BS, Nikitina E, Aihara Y, Zhang ZD, Macdonald RL (2004). Expression and function of inwardly-rectifying potassium channels after experimental subarachnoid hemorrhage. Poster at the *54th Annual Meeting of the Congress of Neurological Surgeons*, October 16-21, 2004, San Francisco, California.
 19. Weyer GW, Jahromi BS, Aihara Y, Agbaje-Williams M, Nikitina E, Zhang ZD, Macdonald RL (2004). Expression and function of inwardly-rectifying potassium channels after experimental subarachnoid hemorrhage. Poster at the *11th Annual Charles Huggins Research Conference*, May 15, 2004, Chicago, Illinois.
 20. Jahromi BS, Aihara Y, Agbaje-Williams M, Nikitina E, Weyer GW, Ryan D, Yassari R, Macdonald RL (2004). Downregulation of potassium channels contributes to smooth muscle depolarization and contraction in cerebral vasospasm. Presentation at the *29th International Stroke Conference*, Feb. 5-7, San Diego, California.
 21. Reilly C, Amidei C, Tolentino J, Jahromi BS, Macdonald RL (2004). Clot volume and clearance rate as independent predictors of vasospasm after aneurysmal SAH. Presentation at the *7th Joint Meeting of the AANS/CNS Section of Cerebrovascular Surgery and the American Society of Interventional & Therapeutic Neuroradiology*, Feb. 1-4, San Diego, California.
 22. Macdonald RL, Curry D, Aihara Y, Zhang ZD, Jahromi BS, Yassari R (2004). Effect of Mg²⁺ on experimental cerebral vasospasm. Presentation at the *7th Joint Meeting of the AANS/CNS Section*

- of *Cerebrovascular Surgery and the American Society of Interventional & Therapeutic Neuroradiology*, Feb. 1-4, San Diego, California.
23. Reilly C, Amidei C, Tolentino J, Jahromi BS, Macdonald RL (2004). Clot volume and clearance rate as independent predictors of vasospasm after aneurysmal SAH. Poster at the *29th International Stroke Conference*, Feb. 5-7, San Diego, California.
 24. Jahromi BS, Aihara Y, Agbaje-Williams M, Nikitina E, Weyer GW, Ryan D, Yassari R, Macdonald RL (2003). Voltage-gated potassium channels are downregulated in experimental cerebral vasospasm. Presentation at the *53rd Annual Meeting of the Congress of Neurological Surgeons*, Oct. 18-23, Denver, Colorado.
 25. Jahromi BS, Aihara Y, Agbaje-Williams M, Nikitina E, Weyer GW, Ryan D, Yassari R, Macdonald RL (2003). Kv2.2 Downregulation Following Experimental Cerebral Vasospasm in Dogs. Presentation at the *8th International Conference on Cerebral Vasospasm*, July 10-12, Chicago, Illinois.
 26. Aihara Y, Jahromi BS, Agbaje-Williams M, Nikitina E, Weyer GW, Ryan D, Yassari R, Macdonald RL (2003). Molecular profile of vascular ion channels after subarachnoid hemorrhage. Presentation at the *8th International Conference on Cerebral Vasospasm*, July 10-12, Chicago, Illinois.
 27. Jahromi BS, Aihara Y, Agbaje-Williams M, Nikitina E, Weyer GW, Ryan D, Yassari R, Macdonald RL (2003). Potassium channel dysfunction in cerebral vasospasm. Poster at the *10th Annual Charles Huggins Research Conference*, May 10, Chicago, Illinois.
 28. Jahromi BS, Aihara Y, Weyer GW, Agbaje-Williams M, Nikitina E, Yassari R, Macdonald RL (2003). Potassium channel dysfunction in experimental cerebral vasospasm. Poster at the *71st Annual Meeting of the American Association of Neurological Surgeons*, Apr. 26-May 1, San Diego, California.
 29. Aihara Y, Jahromi BS, Yassari R, Sayama T, Macdonald RL (2003). Nitric oxide replenishment does not prevent experimental vasospasm: possible block in distal vasorelaxation pathway. Poster at the *71st Annual Meeting of the American Association of Neurological Surgeons*, Apr. 26-May 1, San Diego, California.
 30. Aihara Y, Jahromi BS, Yassari R, Sayama T, Macdonald RL (2003). Effect of a nitric oxide donor on and correlation of changes in cyclic nucleotide levels with experimental vasospasm. Poster at the *28th International Stroke Conference*, Feb. 13-15, Phoenix, Arizona.
 31. Yassari R, Macdonald RL, Sayama T, Jahromi BS, Aihara Y (2003). Hemodynamic, angiographic and histological features of a rat arteriovenous fistula model. Poster at the *6th Joint Meeting of the AANS/CNS Section of Cerebrovascular Surgery and the American Society of Interventional & Therapeutic Neuroradiology*, Feb. 15-19, Phoenix, Arizona.
 32. Aihara Y, Jahromi BS, Yassari R, Sayama T, Macdonald RL (2002). Effect of a nitric oxide donor on experimental vasospasm. Presentation at the *52nd Annual Meeting of the Congress of Neurological Surgeons*, Sept. 21-26, Philadelphia, Pennsylvania.
 33. Yassari R, Sayama T, Jahromi BS, Aihara Y, Macdonald RL (2002). Angiographic, hemodynamic and histological characterization of an arteriovenous fistula in rats. Poster at the *52nd Annual Meeting of the Congress of Neurological Surgeons*, Sept. 21-26, Philadelphia, Pennsylvania.
 34. Yassari R, Sayama T, Jahromi BS, Aihara Y, Macdonald RL (2002). Angiographic, hemodynamic and histological characterization of an arteriovenous fistula in rats. Poster at the *9th Annual Charles Huggins Research Conference*, May 11, Chicago, Illinois.
 35. Macdonald RL, Zhang ZD, Curry D, Aihara Y, Jahromi BS (2002). Sodium nitroprusside does not prevent experimental vasospasm. Presentation at the *5th Joint Annual Meeting of the AANS/CNS Section on Cerebrovascular Surgery and the American Society of Interventional and Therapeutic Neuroradiology*, Feb. 3-6, 2002, Dallas, Texas.
 36. Macdonald RL, Curry D, Zhang ZD, Aihara Y, Jahromi BS (2002). Sodium nitroprusside does not prevent experimental vasospasm. Poster at the *70th Annual Meeting of the American Association of Neurological Surgeons*, Apr. 6-11, 2002, Chicago, Illinois
 37. Jahromi BS, Komuro T, Macdonald RL, Marton LS, Weir BK (2000). Phosphatidylcholine peroxidized by hemoglobin increases $[Ca^{2+}]_i$ in dog basilar artery smooth muscle cells. Presentation at the *7th International Conference on Cerebral Vasospasm*, June 18-21, Interlaken, Switzerland.
 38. Cao YJ, Jahromi BS, Roberts MT, Richardson JL, Dreixler JC, Houamed KM (2000). Functional

- analysis of recombinant mammalian small & intermediate conductance calcium-activated K channels. Poster at the *26th Annual Meeting of the Society for Neuroscience*, Nov. 4-9, New Orleans, Louisiana (*Soc. Neurosci. Abstr.* 26:1399).
39. Cao YJ, Jahromi BS, Roberts MT, Richardson JL, Dreixler JC, Houamed KM (2000). Functional Analysis of Recombinant SK Channels. Poster at the *54th Annual Meeting of the Society for General Physiology*, Sept. 7-9, Woods Hole, Massachusetts.
 40. Chiu B, Jahromi BS, Tucker WS, Fong IW, Evans RT, and Genco R (1999). Immunolocalization of periodontopathogens in human carotid atherosclerotic plaques. Poster at the *99th Annual Meeting of American Society For Microbiology*, May 30-June 3, Chicago, Illinois (*Am. Soc. Micro.* p262).
 41. Jahromi BS, Tucker WS, and Chui B (1998). Do infectious agents play a causal role in carotid atherosclerosis? Presentation at *75 Years of Neurosurgery in Canada: A Symposium of Advances in Neurosurgery and Related Neurosciences*, Oct. 28-31, Toronto, Canada.
 42. Charlton MP, Georgiou J, Jahromi BS, and Robitaille R (1997). Perisynaptic schwann cells at the frog neuromuscular junction resemble astrocytes. Poster at the *Physiological Society Meeting*, May 27-28, Plymouth, United Kingdom (*Proceedings of The Physiological Society, J. Physiol.* 504.p:5S).
 43. Jahromi BS, Zhang L, Tymianski M, Charlton MP, Pennefather PS, and Carlen PL (1996). BAPTA potentiates Ca^{2+} dependent AHPs without altering associated Ca^{2+} signals in CA1 hippocampal neurons in rat brain slices. Presentation at the *26th Annual Meeting of the Society for Neuroscience*, Nov. 16-21, Washington, DC (*Soc. Neurosci. Abstr.* 22:1443).
 44. Jahromi BS, Zhang L, Tymianski M, Charlton MP, Pennefather PS, and Carlen PL (1994). Confocal imaging of intracellular Ca^{2+} in hippocampal CA1 neurons in the brain slice: effects of the calcium chelator BAPTA. Poster at the *4th Annual Meeting, NCE Network for Neural Regeneration and Recovery*, Toronto, Canada.
 45. Jahromi BS, Robitaille R, and Charlton MP (1993). Muscarinic Ca^{2+} responses unaffected by muscarinic antagonists. Poster at the *23rd Annual Meeting of the Society for Neuroscience*, Nov. 7-12, Washington, DC (*Soc. Neurosci. Abstr.* 19:463).
 46. Jahromi BS, Robitaille R, and Charlton MP (1993). Calcium responses in perisynaptic Schwann cells induced by muscarine but not blocked by its antagonists. Presentation and poster at the *Annual Meeting of the Clinical Research Society of Toronto*, Apr. 17, Toronto, Canada.
 47. Jahromi BS, Robitaille R, and Charlton MP (1993). A novel muscarinic receptor not blocked by classical antagonists. Presentation at the *Annual Frontiers in Physiology and Pharmacology*, May 11, Toronto, Canada.
 48. Robitaille R, Jahromi BS, and Charlton MP (1993). Muscarinic antagonists do not prevent Ca^{2+} responses to muscarine in perisynaptic schwann cells in situ. Presentation at the *3rd Annual Meeting, NCE Network for Neural Regeneration and Recovery*, Canada
 49. Jahromi BS, Robitaille R, and Charlton MP (1993). Antagonist-resistant release of intracellular calcium induced by muscarinic agonists at perisynaptic Schwann cells in situ. Presentation at the *20th Annual Meeting of the Microscopical Society of Canada*, June 3-5, Toronto, Canada (*Proceedings of the Microscopical Society of Canada*, p 70-71).
 50. Jahromi BS, Robitaille R, and Charlton MP (1992). Modulation of perisynaptic glial cells during nerve terminal activity. Poster at the *Annual Frontiers in Physiology and Pharmacology*, Apr. 14, Toronto, Canada (*Physiology Canada* 23(2):72).
 51. Jahromi BS, Robitaille R, and Charlton MP (1992). Transmitter release activates perisynaptic glial cells. Presentation at the *33rd Annual National Student Research Forum*, Galveston, Texas.
 52. Jahromi BS, Robitaille R, and Charlton MP (1992). Release of neurotransmitters induces rise in intracellular calcium in perisynaptic glial cells. Presentation at the *Annual Meeting of the Clinical Research Society of Toronto*, April 11, Toronto, Canada.
 53. Robitaille R, Jahromi BS, Georgiou J, and Charlton MP (1992). Synaptic activation of glia. Presentation at the *2nd Annual Meeting, NCE Network for Neural Regeneration and Recovery*, June 11-13, Toronto, Canada.
 54. Robitaille R, Jahromi BS, and Charlton MP (1992). Perisynaptic Schwann cells are activated by normal synaptic transmission. Poster at the *2nd Altschul Symposium on Biology and Pathology of Astrocyte-Neuron Interactions*, May 20-23, Saskatoon, Canada.
 55. Jahromi BS, Robitaille R, and Charlton MP (1991). Calcium signals in presynaptic glial cells caused by nerve terminal excitation. Presentation at the *21st Annual Meeting of the Society for*

Neuroscience, Nov. 10-15, New Orleans, Louisiana (*Soc. Neurosci. Abstrc.* 17:900).

Invited Commentary

1. Jahromi BS, Hopkins LN (2008) *Comment on:* Schirmer CM, Thaler DE and Malek AM: Stent-mediated wedging of a calcific embolus to recanalize an occluded middle cerebral artery. **Neurosurgery** (in press).
2. Jahromi BS, Hopkins LN (2007) *Comment on:* Kang H-S, Han MH, Lee TH, Shin YS, Roh HG, Kwon O-K, Kwon BJ, Kim SY, Kim SH, Byun HS: Embolization of Intracranial Aneurysms with Hydrogel-coated Coils: Results of Korean Multicenter Trial. **Neurosurgery** 61(1):58-59.