
BIOGRAPHICAL SKETCH

NAME Sylvain DORÉ, PhD	POSITION TITLE Associate Professor <i>Anesth. and Critical Care Medicine Neuro Division</i>
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EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of Montreal	BSc	1988	Biochemistry
University of Quebec	MSc	1990	Pharmacology
University of Montreal	PhD	1994	Biomedical Sciences
McGill University	Post-PhD	1996	Psychiatry (Remi Quirion)
Johns Hopkins University	Post-PhD	1999	Neuroscience (Sol Snyder)

A. Positions and Employment

2004-present Associate Professor, Dept. of Anesthesiology/Critical Care Medicine, SOM, Johns Hopkins University
 2000-2003 Assistant Professor, Dept. of Anesthesiology/Critical Care Medicine, SOM, Johns Hopkins University

Additional Training

06/87-09/87	St-Justine Hospital Res. Ctr, Montreal, Qc	Dr. Gilles Brisson (Clinical Biochemistry)
06/89-08/89	IRCM, Montreal, Qc	Dr. Yolanta Gutkowska (Immunology)
01/95-02/95	The Rockefeller Univ. New York, NY	Dr. Paul Greengard (Molecular Neuroscience)
06/96-07/96	Hoechst-Marion-Roussel, Bridgewater, NJ	Dr. Andy Giovanni (Molecular Neuroscience)
08/06-07/07	Carey Business School, JHU	Certificate in Leadership & Management

Past Studentship

06/87-09/87	University of Montreal	(BSc)	Summer Studentship
07/88-04/90	University of Quebec	(MSc)	Studentship
05/90-04/93	The Arthritis Society	(PhD)	Studentship
05/94-05/97	<i>Fonds de la recherche en santé</i>	(Post-PhD)	Fellowship Award
05/94-05/97	The Alzheimer Society	(Post-PhD)	Fellowship Award
05/94-05/97	Medical Research Council/ Alzheimer Soc.	(Post-PhD)	Fellowship Award
05/97-05/98	Medical Research Council/ Novartis	(Post-PhD)	Fellowship Award
05/98-01/00	Medical Research Council	(Post-PhD)	Centennial Fellowship

Scientific Advisory Committees

- Review Committee: American Heart and Stroke Association - AHA Brain I and Brain II (2004-2008); NIH-NCCAM (2003-2005); NIH-NINDS (2005); Scottish Rite Charitable Foundation of Canada (2002-2005)
- Ad Hoc Reviewer for Research Grants: American Neuroscience Society Foundation (1999); Alzheimer Society of Canada (2000-2003); Alzheimer's Society of USA (2002-2007); American Heart Association (2001); Canadian Institutes of Health Research (2003-2004, 2006); Johns Hopkins Anesthesiology/Critical Care Medicine Seed Grant (2007); National Science Foundation (2002, 2006); Natural Sciences and Engineering Research Council of Canada (2005); Veterans Affairs (2001)
- Ad Hoc Reviewer for Publications: Adis Intern Med Pub (1999); Am J Applied Physiology (2001); Am J Physiol (2002, 2003); Ann Neurol (2007); Ann NY Acad Sci (2002); Br J Pharmacology (2001); Brain Res Inter (2000); Brain Research (2001, 2007); Brain Research Bull. (2006); Endocrine (2002-2003); Eur J Biochem (2003); Eur J Neurosci (2000); Eur Neuropsychopharmacology (2007); Free Rad Biol Med (2007); J Alz Disease (2006); J Biol Syst (2007); J Cereb Blood Flow Metab (2003, 2004, 2006-2007); J Chem Neuroanatomy (2001-2003); J Neuroscience (2002, 2005-2007); J Psychiatry Neurosci (1999); Life Sciences (2001-2002); Nature Protocols (2007); Neurobiology of Disease (2007); Neuroscience (2000); Neurosci Lett (2007); NeuroToxicology (2003); New England J Medicine (2005); Ped Research (2001); Proc Natl Acad Sci (2003); Stroke (2000-2002, 2005-2007), Thrombosis and Haemostasis (2004); Toxicological Sciences (2003-2004, 2007)

Honors

- Recipient of the Niels Lassen Award at Brain 01 by the International Society for Cerebral Blood Flow and Metabolism (2001)
- Recipient of GEMI Award, Munich Germany (2007)

B. Peer-reviewed Publications (in chronological order, *equal contribution)

1. Doré S, Brisson GR, Fournier A, Massicotte D, Péronnet F, Gareau R. HGH_{20K} species and variability of GH responses to long-duration exercise in male cyclists fed different food supplements. *Horm Metab Res* 23:431-4, 1991. PMID: 1743616
2. Doré S, Brisson GR, Fournier A, Montpetit R, Perrault H, Boisvert D. Contribution of the hGH_{20K} variant to blood hGH response in sauna and exercise. *Eur J Appl Physiol* 62:130-4, 1991. PMID: 2022201
3. Doré S, Pelletier JP, DiBattista JA, Tardif G, Brazeau P, Martel-Pelletier J. Human osteoarthritic chondrocytes possess an increased number of insulin-like growth factor 1 but are unresponsive to its stimulation: Possible role of IGF-1 binding proteins. *Arthritis Rheum* 37:253-63, 1994. PMID: 7510486
4. Doré S, Abribat T, Rousseau N, Brazeau P, Tardif G, DiBattista JA, Cloutier J-M, Pelletier JP, Martel-Pelletier J. Increased insulin-like growth factor I production by human osteoarthritic chondrocytes is not dependent on growth hormone action. *Arthritis Rheum* 38: 413-19, 1995. PMID: 7880196
5. Schmidt W, Doré S, Hilgendorf A, Strauch S, Gareau R, Brisson GR. Effects of exercise during normoxia and hypoxia on the growth hormone insulin-like growth factor I axis. *Eur J Appl Physiol* 71:424-30, 1995. PMID: 8565974
6. Tavera C, Abribat T, Reboul P, Doré S, Brazeau P, Pelletier JP, Martel-Pelletier J. IGF and IGF-binding protein system in the synovial fluid of osteoarthritic and rheumatoid arthritic patients. *Osteoarthritis Cartilage* 4:263-74, 1996. PMID: 11048623
7. DiBattista JA, Doré S, Morin N, Abribat T. Prostaglandin E₂ up-regulates insulin-like growth factor binding protein-3 expression and synthesis in human articular chondrocytes by a cAMP-independent pathway: Role of calcium and protein kinase A and C. *J Cell Biochem* 63:320-33, 1996 PMID: 8913883.
8. DiBattista JA, Doré S, Morin N, Abribat T, Martel-Pelletier J, Pelletier JP. Prostaglandin E₂ stimulates incorporation of proline into collagenase digestible proteins in human articular chondrocytes: Identification of an effector autocrine loop involving insulin-like growth factor I. *Mol Cell Endocrinol* 123:27-35, 1996 PMID: 8912808.
9. Doré S, Krieger C, Kar S, Quirion R. Distribution and levels of insulin-like growth factor (IGF-I and IGF-II) and insulin receptor binding sites in the spinal cords of amyotrophic lateral sclerosis (ALS) patients. *Brain Res Mol Brain Res* 41:128-33, 1996. PMID: 8883943
10. Doré S, Kar S, Quirion R. Emploi thérapeutique de l'IGF-I dans le traitement de maladies neurodégénératives. *M S-Médecine/Sciences* 13:557-65, 1997.
11. Doré S, Kar S, Quirion R. Presence and differential internalization of two distinct insulin-like growth factor receptors in rat hippocampal neurons. *Neuroscience* 78:373-83, 1997. PMID: 9145794
12. DiBattista JA, Doré S, Morin N, He Y, Pelletier JP, Martel-Pelletier J. Prostaglandin E₂ stimulates insulin-like growth factor binding protein-4 expression and synthesis in cultured human articular chondrocytes. Possible mediation by Ca²⁺-calmodulin regulated processes. *J Cell Biochem* 65:408-19, 1997. PMID: 9138096
13. Doré S, Kar S, Rowe W, Quirion R. Distribution and levels of [¹²⁵I]IGF-I, [¹²⁵I]IGF-II and [¹²⁵I]insulin receptor binding sites in the hippocampus of aged memory-unimpaired and -impaired rats. *Neuroscience* 80:1033-40, 1997. PMID: 9284058
14. Doré S, Kar S, Quirion R. Rediscovering an old friend, IGF-I: Potential use in the treatment of neurodegenerative diseases. *Trends Neurosci* 20:326-31, 1997. PMID: 9246719
15. Doré S, Kar S, Quirion R. Emploi thérapeutique de l'IGF-I dans le traitement de maladies neurodégénératives. *Les Selections de médecine/sciences* 7:40-7, 1997.
16. Doré S, Kar S, Quirion R. Insulin-like growth factor I protects and rescues hippocampal neurons against β -amyloid and human amylin-induced toxicity. *Proc Natl Acad Sci U S A* 94:4772-7, 1997. PMID: 9114067
17. Kar S, Seto D, Doré S, Chabot JG, Quirion R. Systemic administration of kainic acid induces selective time dependent decrease in [¹²⁵I]insulin-like growth factor I, [¹²⁵I]insulin-like growth factor II and [¹²⁵I]insulin receptor binding sites in adult rat hippocampal formation. *Neuroscience* 80:1041-55, 1997. PMID: 9284059
18. Kar S, Seto D, Doré S, Hanisch UK, Quirion R. Insulin-like growth factor-I and -II differentially regulate endogenous acetylcholine release from the rat hippocampal formation. *Proc Natl Acad Sci U S A* 94:14054-9, 1997.
19. Doré S, Kar S, Auld D, Chabot JG, Quirion R. Autoradiographic localization of growth factor receptors in neuronal tissues: insulin-like growth factors as a prototypical example. *Curr Prot Pharmacol* 8.2.1-16, 1998.
20. Chabot JG, Dumont Y, St-Pierre JA, Tong Y, Doré S, Kar S, Quirion R. Anatomical approaches to study G-protein coupled protein receptors. In: *Peptidergic G Protein-coupled Receptors: From Basic Research to Clinical Application*. P. Geppetti, W. Muller-Esterl, D. Regoli, eds., IOS Press: Amsterdam, Netherlands, pp. 11-28, 1999.
21. Doré S, Kar S, Chabot JG, Quirion R. Impact of neonatal kainate treatment on hippocampal insulin-like growth factor receptors. *Neuroscience* 91:1035-43, 1999. PMID: 10391481

22. Doré S, Bastianetto S, Kar S, Quirion R. Protective and rescuing abilities of IGF-I and some putative free radical scavengers against β -amyloid-inducing toxicity in neurons. *Ann N Y Acad Sci* 890:356-64, 1999. PMID: 10668442
23. Doré S, Snyder SH. Neuroprotective action of bilirubin against oxidative stress in primary hippocampal cultures. *Ann N Y Acad Sci* 890:167-72, 1999. PMID: 10668423
24. Doré S, Takahashi M, Ferris CD, Zakhary R, Hester LD, Guastella D, Snyder SH. Bilirubin, formed by activation of heme oxygenase-2, protects neurons against oxidative stress injury. *Proc Natl Acad Sci U S A* 96:2445-50, 1999. PMID: 10051662
25. Ferris CD, Jaffrey SR, Sawa A, Takahashi M, Brady SD, Barrow RK, Tysoe SA, Wolosker H, Baranano DE, Doré S, Poss KD, Snyder SH. Haem oxygenase-1 prevents cell death by regulating cellular iron. *Nat Cell Biol* 1:152-7, 1999. PMID: 10559901
26. Doré S, Sampei K, Goto S, Alkayed NJ, Guastella D, Blackshaw S, Gallagher M, Traystman RJ, Hurn PD, Koehler RC, Snyder SH. Heme oxygenase-2 is neuroprotective in cerebral ischemia. *Mol Med* 5:656-63, 1999. PMID: 10602774
27. Bastianetto S, Ramassamy C, Doré S, Christen Y, Poirier J, Quirion R. The Ginkgo biloba extract (EGb 761) protects hippocampal neurons against cell death induced by β -amyloid. *Eur J Neurosci* 12:1882-90, 2000. PMID: 10886329
28. Zheng WH, Doré S, Kar S, Quirion R. Insulin-like growth factor-I (IGF-1): a neuroprotective factor acting via the Akt kinase pathway. *J Neural Transm Suppl* 60:261-72, 2000. PMID: 11205145
29. Doré S*, Law A*, Blackshaw S, Gauthier S, Quirion R. Alteration of expression levels of neuronal nitric oxide synthase and haem oxygenase-2 messenger RNA in the hippocampi and cortices of young and aged cognitively unimpaired and impaired Long-Evans rats. *Neuroscience* 100:769-75, 2000. PMID: 11036210
30. Doré S*, Goto S*, Sampei K, Blackshaw S, Hester LD, Ingi T, Sawa A, Traystman RJ, Koehler RC, Snyder SH. Heme oxygenase-2 acts to prevent neuronal death in brain cultures and following transient cerebral ischemia. *Neuroscience* 99:587-92, 2000. PMID: 10974422
31. Doré S, Kar S, Zheng WH, Quirion R. Rediscovering good old friend IGF-I in the new millenium: possible usefulness in Alzheimer's disease and stroke. *Pharm Acta Helv* 74:273-280, 2000. PMID: 10812969
32. Doré S*, Takahashi M*, Ferris CD, Tomita T, Sawa A, Wolosker H, Borchelt DR, Iwatsubo T, Kim SH, Thinakaran G, Sisodia SS, Snyder SH. Amyloid precursor proteins inhibit heme oxygenase activity and augment neurotoxicity in Alzheimer's disease. *Neuron* 28:461-73, 2000. PMID: 11144356
33. Doré S, Quirion R. IGF-I, insulin, brain glucose, and cognition. In: *The Corsini Encyclopedia of Pshychology and Behavioral Science, Vol 2*. WE Craighead, CB Nemeroff, eds., John Wiley & Sons, Hoboken, NJ. 728-33, 2001.
34. Baranano DE, Doré S, Ferris CD, Snyder SH. Physiologic roles for the heme oxygenase products carbon monoxide, bilirubin, and iron: Links to neuroprotection in stroke and Alzheimer's disease. *Clin Neurosci Res* 1:46-52, 2001.
35. Doré S. Decreased activity of the antioxidant hemeoxygenase enzyme: implications in ischemia and in Alzheimer's disease. *Free Radic Biol Med* 32:1276-82, 2002. PMID: 12057765
36. Zhuang H, Pin S, Christen Y, Doré S. Induction of heme oxygenase 1 by Ginkgo biloba in neuronal cultures and potential implications in ischemia. *Cell Mol Biol* 48:647-53, 2002. PMID: 12396075
37. Zhuang H, Kim Y-S, Koehler RC, Doré S. Potential mechanism by which resveratrol, a red wine constituent, protects neurons. *Ann N Y Acad Sci* 993:276-86, 2003. PMID: 12853318
38. Zhuang H, Pin S, Li X, Doré S. Regulation of heme oxygenase by cyclopentenone prostaglandins. *Exp Biol Med* 228:499-505, 2003. PMID: 12709576
39. Zhuang H, Kim Y-S, Namiranian K, Doré S. Prostaglandins of J series control heme oxygenase expression: Potential significance in modulating neuroinflammation. *Ann N Y Acad Sci* 993:208-16, 2003. PMID: 12853315
40. Goto S, Sampei K, Alkayed NJ, Doré S, Koehler RC. Characterization of a new double-filament model of focal cerebral ischemia in heme oxygenase-2-deficient mice. *Am J Physiol Regul Integr Comp Physiol* 285:R222-30, 2003. PMID: 12663258
41. Doré S, Otsuka T, Mito T, Sugo N, Hand T, Wu L, Hurn PD, Traystman RJ, Andreasson K. Neuronal overexpression of cyclooxygenase-2 increases cerebral infarction. *Ann Neurol* 54:155-62, 2003. PMID: 12891667
42. Cowan RL, Doré S. Toxicity and neuroprotective effects of carbon monoxide: consequences to suicide and survival. In: *The Concise Corsini Encyclopedia of Psychology and Behavioral Science*. WE Craighead, CB Nemeroff, eds., John Wiley & Sons, Hoboken, NJ, 994-997, 2004.
43. Doré S, Kofler J, Quirion R. The insulin-like growth factor I: a key modulator of neurogenesis and cognitive functions. In: *The Concise Corsini Encyclopedia of Psychology and Behavioral Science* WE Craighead, CB Nemeroff, eds., John Wiley & Sons, Hoboken, NJ, 460-466, 2004.

44. Tao F, Tao Y-X, Zhao C, Doré S, Liaw W-J, Zhang B, Raja SN, Johns RA. Differential roles of neuronal and endothelial nitric oxide synthase during carrageenan-induced inflammatory hyperalgesia. *Neuroscience* 128:421-30, 2004. PMID: 15350652
45. Namiranian, K, Koehler RC, Sapirstein A, Doré S. Stroke outcomes in mice lacking the genes for neuronal heme oxygenase-2 and nitric oxide synthase. *Curr Neurovasc Res.* 2:23-27, 2005. PMID: 16181097
46. Kim Y-S, Zhuang H, Koehler RC, Doré S. Distinct protective mechanisms for HO-1 and HO-2 against hydroperoxide-induced cytotoxicity. *Free Radic Biol Med.* 38:85-92, 2005. PMID: 15589375
47. Zhuang H, Littleton-Kearney MT, Doré S. Characterization of heme oxygenase in adult rodent platelets. *Curr Neurovasc Res.* 2: 163-8, 2005. PMID: 16181109
48. Doré S. Unique properties of polyphenol stilbenes in the brain: more than direct antioxidant actions; gene/protein regulatory activity. *Neurosignals* 14:61-70, 2005. PMID: 15956815
49. Echeverria V, Greenberg DL, Doré S. Expression of prostaglandin E₂ synthases in mouse postnatal cortical neurons. *Ann NY Acad Sci* 1053:460-71, 2005. PMID: 16179554
50. Kim Y-S, Doré S. Catalytically inactive heme oxygenase-2 mutant is cytoprotective. *Free Radic Biol Med.* 39: 558-64, 2005. PMID: 16043027
51. Echeverria V, Clerman A, Doré S. Stimulation of PGE₂ receptors EP2 and EP4 protects cultured neurons against oxidative stress and cell death following β -amyloid exposure. *Eur J Neurosci.* 22:2199-206, 2005. PMID: 16262658
52. Ahmad AS, Ahmad M, de Brum-Fernandes AJ, Doré S. Prostaglandin EP4 receptor agonist protects against acute neurotoxicity. *Brain Res.* 1066:71-7, 2005. PMID: 16360658
53. Saleem S, Ahmad AS, Doré S. Protective effects of resveratrol in age-related neurodegenerative diseases and gene regulatory action. In: *Resveratrol in Health and Disease*. BB. Aggarwal, S. Shishodia, eds., Marcel Dekker Press: New York, NY, 499-517, 2006.
54. Ahmad AS, Saleem S, Ahmad M, Doré S. Prostaglandin EP1 receptor contributes to excitotoxicity and focal ischemic brain damage. *Toxicol Sci.* 89:265-70, 2006. PMID: 16237196
55. Ahmad M, Saleem S, Zhuang H, Ahmad AS, Echeverria V, Sapirstein A, Doré S. 1-hydroxyPGE₁ reduces infarction volume in mouse transient cerebral ischemia. *Eur J Neurosci.* 23:35-42, 2006. PMID: 16420413
56. Rebel A, Cao S, Kwansa H, Doré S, Bucci E, Koehler, RC. Dependence of acetylcholine and ADP dilation of pial arterioles on heme oxygenase after transfusion of cell-free polymeric hemoglobin. *Am J Physiol Heart Circ Physiol.* 290(3):H1027-37, 2006. PMID: 16214847
57. Wang J, Zhuang H, Doré S. Heme oxygenase 2 is neuroprotective against intracerebral hemorrhage. *Neurobiol Dis.* 22:473-6, 2006. PMID: 16459095
58. Shah ZA, Namiranian K, Klaus J, Kibler K, Doré S. Use of an optimized transient occlusion of the middle cerebral artery protocol for the mouse stroke model. *J Stroke Cerebrovasc Dis.* 15:133-8, 2006.
59. Ahmad AS, Zhuang H, Doré S. Heme oxygenase-1 protects brain from acute excitotoxicity. *Neuroscience* 141(4):1703-8, 2006. PMID: 16828975
60. Doré, S. GPCR antagonists as an alternative to COX-2 inhibitors: a case for the PGE₂ EP1 receptor. *Trends Pharmacol Sci* 27(9):458-60, 2006. PMID: 16870271
61. Ahmad AS, Zhuang H, Echeverria V, Doré S. Stimulation of prostaglandin EP2 receptors prevents NMDA-induced excitotoxicity. *J Neurotrauma* 23:1895-903, 2006. PMID: 17184197
62. Wang J, Doré, S. Inflammation after Intracerebral Hemorrhage. *J Cereb Blood Flow Metab.* 27(5):894-908, 2007. PMID: 17033693
63. Ahmad M, Ahmad AS, Zhuang H, Maruyama T, Narumiya S, Doré S. Stimulation of prostaglandin E₂-EP3 receptors exacerbates stroke and excitotoxic injury. *J Neuroimmunol.* 184:172-9, 2007. PMID: 17275922
64. Wang J, Doré S. Heme oxygenase-1 exacerbates early brain injury after intracerebral haemorrhage. *Brain* 130:1643-52, 2007. PMID: 17525142
65. Shah ZA, Li RC, Thimmulappa RK, Kensler TW, Yamamoto M, Biswal S, Doré S. Role of reactive oxygen species in modulation of Nrf2 following ischemic reperfusion injury. *Neuroscience.* 147:53-9, 2007. PMID: 17507167
66. Saleem S, Li Rung-chi, Wei G, Doré S. Effects of EP1 receptor on cerebral blood flow in the middle cerebral artery occlusion model of stroke in mice. *J Neurosci Res.* 85:2433-2440, 2007. PMID: 17600836.
67. Wang J, Fields J, Zhao C, Langer J, Thimmulappa RK, Kensler TW, Yamamoto M, Biswal S, Doré S. Role of Nrf2 in protection against intracerebral hemorrhage injury in mice. *Free Radic Biol Med.* 43:408-14 2007. PMID: 17602956.
68. Saleem S, Zhuang H, de Brum-Fernandes AJ, Maruyama T, Narumiya S, Doré S. PGD₂ DP1 receptor protects brain from ischemia-reperfusion injury. *Eur J Neurosci,* 26:73-78, 2007. PMID: 17573924.

69. Levine CF, Li RC, Shah ZA, Doré S. Resveratrol and neurodegenerative diseases. In: Watson RR, Preedy VR (eds) *The Encyclopedia of Botanicals in Clinical Practice*. CABI Publishing, Wallingford, UK, In press, 2007.
70. Zhen G, Doré S. Optimized protocol to reduce variable outcomes for the bilateral common carotid artery occlusion model in mice. *J Neurosci Methods*, 166:73-80, 2007. PMID: 17692388
71. Kim YT, Yi Y-J, Kim M-Y, Bu Y, Jin ZH, Choi H, Doré S, Kim H. Neuroprotection and enhancement of spatial memory by herbal mixture HT008-1 in rat global brain ischemia model. *Am. J. Chinese Medicine* 36:287-99, 2008.
72. Chaudhry UA, Zhuang H, Crain BJ, Doré S. Elevated microsomal prostaglandin E synthase-1 in Alzheimer disease. *Alzheimer's & Dementia*, 4:6-13, 2008.
73. Kim J, Chung SY, Park S, Park J-H, Byun S, Hwang M, Oh D-S, Choi H, Kim M-Y, Bu Y, Doré S, Whang W-W, Kim H. Enhancing effect of HT008-1 on cognitive function and quality of life in cognitively declined healthy adults: a randomized, double-blind, placebo-controlled, trial. *Pharmacol, Biochem Behav*, [Epub ahead of print], April 1, 2008
74. Choi K, Zhuang H, Crain B, Doré S. Expression and localization of prostaglandin transporter in Alzheimer disease brains and age-matched controls. *J Neuroimmunol*. 195:81-7, 2008.
75. Kim YS, Guastella D, Doré S. Neuroprotective role of heme oxygenase-2 in 6-hydroxydopamine-lesioned mouse. *New Trends in Alzheimer and Parkinson disorders*, 201-208, 2008.
76. Qin X, Kwansa H, Bucci E, Doré S, Boehning D, Shugar D, Koehler RC. Role of heme oxygenase-2 in pial arteriolar response to acetylcholine in mice with and without transfusion of cell-free hemoglobin polymers. *Am. J Physiol: Reg, Integr. Comp. Physiol*. [Epub ahead of print], May 21, 2008.
77. Wang J, Fields J, Doré S. The development of an improved preclinical mouse model of intracerebral hemorrhage using double infusion of autologous whole blood. *Brain Research*, In Press 2008.
78. Saleem S; Zhuang H, Biswal S, Christen Y, Doré S. Ginkgo biloba extract neuroprotective action is dependent on heme oxygenase 1 in ischemic reperfusion brain injury. *Stroke*, In Press, 2008.
79. Wang J, Doré S. Heme oxygenase 2 deficiency increases brain swelling and inflammation after intracerebral hemorrhage. *Neuroscience*, In Press, 2008.
80. Chaudhry UA, Zhuang H, Doré S. Cytosolic prostaglandin E synthase: expression patterns in normal and Alzheimer's disease brains. *Am. J. Alzheimers Disease & Other Dementias*, In Press, 2008.

Published Abstracts: 160

MENTORING

JOHNS HOPKINS UNIVERSITY

Instructors

- 01/2005–present Jian Wang, M.D., PhD
Supported by WANG J–AHA/Scientist Development Grant
Supported by DORÉ S–NIH/National Institute of Aging
- 02/2004–08/2006 Guo Wei, M.D., PhD
Supported by DORÉ S–NIH/National Institute of Neurol Disorders & Stroke
- 01/2008–present Abdullah Shafique Ahmad, PhD
Supported by AHMAD, A–AHA/Scientist Development Grant
Supported by DORÉ S–NIH/National Institute of Aging
- 01/2008–present Zahoor Shah, PhD
Supported by SHAH Z–NIH/NCCAM
Supported by DORÉ S–NIH/National Institute of Aging

Research Associate

- 09/2004–01/2006 Eduardo D. Zamora, MD
Supported by DORÉ S–NIH/National Institute of Aging

Postdoctoral Fellows

- 09/2001–05/2006 Hean Zhuang, MD
Supported by DORÉ S–NIH/National Institute of Neurol Disorders & Stroke
- 09/2002–02/2005 Yun-Sook Kim, PhD
Supported by Post-PhD Fellowship from American Heart and Stroke Ass.
- 10/2003–10/2006 Muzamil Ahmad, PhD
Supported by DORÉ S–NIH/National Institute of Neurol Disorders & Stroke
- 10/2003–present Sofiyan Saleem, PhD
Supported by DORÉ S–NIH/National Center for Complementary & Alternative Medicine
- 10/2003–12/2007 Abdullah Shafique Ahmad, PhD
Supported by DORÉ S–NIH/National Institute of Neurol Disorders & Stroke
- 10/2003–11/2005 Valentina Echeverria, PhD
Supported by DORÉ S–NIH/National Institute of Aging
- 08/2004–05/2005 Jong-Seok Lee, PhD
Supported by DORÉ S–NIH/National Institute of Neurol Disorders & Stroke
- 09/2004–06/2006 Yoshihito Sakata, MD, PhD
Supported by DORÉ S–NIH/National Center for Complementary & Alternative Medicine
- 12/2004–01/2005 Jian Wang, PhD
Supported by DORÉ S–NIH/National Center for Complementary & Alternative Medicine
- 02/2005–present Zahoor Shah, PhD
Supported by DORÉ S–NIH/National Institute of Aging
- 05/2005–present Rung-Chi Li, PhD
Supported by DORÉ S–NIH/National Institute of Aging

06/2005–present Gehua Zhen, MD
Supported by DORÉ S–NIH/National Institute of Aging

01/2007–06/2008 Shimin Liu, MD, PhD
Supported by DORÉ S–NIH/National Institute of Aging

10/2007–present Yun Tai Kim, PhD
Supported by DORÉ S–NIH/National Institute of Aging

01/2008–present Shimin Liu, MD, PhD
Supported by DORÉ S–NIH/National Institute of Aging

M.D. Fellows

2000–2001 Annette Rebel, MD
Supported by KOEHLER RC–NIH/Natl. Institute of Neurol Disorders & Stroke

2005–2006 Uzma Chaudhry, MD
Supported by DORÉ S–NIH/National Institute of Aging

Graduate Fellows

1998–1999 Mi-Ryoung Song, BS
Rotation in SNYDER SH laboratory.

09/2004–06/2005 Elizabeth L. Johnson, BS, Biomedical Engineering
Supported by DORÉ S–NIH/National Institute of Aging

09/2005–present Asif Mustafa, BS, Neuroscience
Supported by SNYDER SH–NIH

10/2006–present Bingnan Kang, BS, Pharmacology (Neuroscience)
Supported by SNYDER SH/ DORÉ S–AHA predoctoral fellow

12/2006–present Jeff Ehmsen, BS, Neuroscience
Supported by SNYDER SH–NIH

Undergraduate Fellows

1997–2000 Dan Guastella, BS— Senior Research Assistant
Supported by DORÉ S–Hopkins Starting Grant

09/2003–06/2004 Khodadad Namiranian, MD – Technician
Supported ½ by DORÉ S–NIH/ National Institute of Neurol Disorders & Stroke

06/2004–12/2005 Andrew Clerman, BS
Worked in lab for student credit.

08/2004–12/2004 Rodolfo Alba
Worked in lab as part of his Senior Research Laboratory Project for a BS at Villa Julie College.

09/2004–12/2004 Yee Wai (Millie) Chan
Worked in lab for student credit for a BS in Biomedical Engineering at JHU

06/2005–present Koyi Choi
Worked in lab for student credit for a BS in Biology, Major Neuroscience at JHU

- 05/2006-08/2006 Sebastien Doré
Worked in lab while completing is BS in Occupational Therapy at the University of Sherbrooke, Shebrooke, Qc
- 06/2006-05/2007 Jocelyn Fields
Worked in lab for student credit for a BS in Biology, Major Neuroscience
- 06/2005-01/2006 Albert Song
Worked in lab for student credit for a BS in Biology, Major Neuroscience
- 06/2008-present Tymoteusz Kajsture
Rotation JHU-MD/PhD program

RECOGNITION

AWARDS AND HONORS

- 1992 Second Best Presentation, Department of Medicine, University of Montreal
- 1992 Best Scientific Presentation, Laurentian Conference of Rheumatology
- 1992 Honor for the Best Presentation, Dept. of Medicine, University of Montreal
- 1992 Wyeth-Ayerst Research; Travel Award, Annual Meeting of OARS, France
- 1992 Travel Award, Medical Department, Notre Dame Hospital; Meeting of OARS, France
- 1993 Best Ph.D. Work, Biomedical Sciences Department, University of Montreal
- 1993 Best Ph.D. Work, Graduate Faculty, University of Montreal
- 1993 R.S. Rosen Prize, Best Scientific Presentation
- 62nd Annual Meeting of Royal College of Physicians and Surgeons
- 1993 Travel Award; The Rheumatism Association
- 62nd Annual Meeting of the Royal College of Physicians and Surgeons
- 1994 Nomination for best thesis in Montreal — Graduate Faculty, University of Montreal
- 1995 Selected for a Data Blitz, Winter Conference on Brain Research
- 1995 Selected for a Press Release, Clinical Applications
- Abstract chosen by the Members of the Society for Neuroscience
- 1996 FRSQ Prize, Second Best Scientific Presentation; Best Oral Presentation
- Annual Meeting of Mental Health, FRSQ
- 1996 Selected for a Press Release, Clinical Applications
- Abstract chosen by the members of the Society for Neuroscience
- 1996 Selected for a Data Blitz, Winter Conference on Brain Research
- 1996 Invited for a presentation at the Session on Neurodegenerative Diseases
- Sponsored by NEN Life Science
- 1997 Selected for a Press Release, Clinical Applications
- Abstract chosen by the members of the Society for Neuroscience
- 1997 Selected for a Data Blitz, Winter Conference on Brain Research
- 1998 Selected for a Data Blitz, Winter Conference on Brain Research
- 1998 Invited for a Presentation at the Session on Neurodegenerative Diseases
- Sponsored by NEN Life Science
- 1999 Research highlighted on front cover of *Molecular Medicine*
- 1999 Selected for a Data Blitz, Winter Conference on Brain Research
- 2000 Travel Fellowship for young investigator, Parke-Davis/Pfizer
- 2000 Selected for a Symposium, Winter Conference on Brain Research
- 2000 Fellowship for young investigator, Winter Conference of Brain Research
- 2001 Travel Fellowship for young investigator, Parke-Davis/Pfizer
- 2001 Recipient of the Niels Lassen Award: The Lassen Award is presented by the International Society for Cerebral Blood Flow and Metabolism to recognize an outstanding scientific contribution made by a young scientist.
- 18th International Symposium on Cerebral Blood Flow Metabolism and Function-Brain 01
- 2001 Travel Award
- 18th International Symposium on Cerebral Blood Flow Metabolism and Function-Brain 01
- 2003 Article selected to appear in the Basic Science/Genetics Newsletter, which reports medical news from top neurology journals
- 2004 Interviewed: *Joys, benefits of chocolate*, Baltimore Sun and the Chicago Tribune
- 2004 Interviewed by Joanne Silberner for National Public Radio (NPR):
- Sampling Research at the Chocolate Symposium*
- 2007 Recipient of GEMI Award, Munich Germany

AWARDS AND HONORS (for Postdoctoral Fellows, and Transition to Fellow to Faculty positions)

- 2003 Travel Award for post-doctoral fellow, Yun-Sook Kim, Ph.D., for her abstract
- 20th International Symposium on Cerebral Blood Flow Metabolism and Function-Brain 03

2003 Travel Award for post-doctoral fellow, Khodadad Namiranian, M.D., for his abstract
20th International Symposium on Cerebral Blood Flow Metabolism and Function-Brain 03

2004 Post-doctoral Fellowship, Yun-Sook Kim, Ph.D. from the American Heart and Stroke Association

2004 Travel Award for post-doctoral fellow, Yun-Sook Kim, Ph.D., for her abstract
Annual Meeting of the American Society of Neurochemistry

2004 Travel Award for post-doctoral fellow, Valentina Echeverria, Ph.D., for her abstract
Annual Meeting of the American Society of Neurochemistry

2005 Post-doctoral Fellowship, Abdullah Ahmad, PhD from the American Heart and Stroke Association

2006 Donna Graff Marriott Award awarded to post-doctoral fellow, Abdullah Ahmad, PhD, from the
Women's Board of the American Heart and Stroke Association

2006 New Investigator Grant, Guo Wei MD from the Alzheimer's disease Association

2006 Scientist Development Grant, Jian Wang MD PhD from the American Heart and Stroke Association

2007 Fellowship grant Emil Zeynalov MD, from the ACCM NIH-Training grant

2008 Fellow to Faculty grant, Zahoor Shah PhD from the National Institute of Health

2008 Scientist Development Grant, Abdullah S. Ahmad PhD from the American Heart and Stroke Association

2008 Post-doctoral Fellowship, Rung-chi Li, Ph.D. from the American Heart and Stroke Association