

## CURRICULUM VITAE

**NAME:** PRAMOD K. DASH

**PRESENT TITLE:** Professor  
Departments of Neurobiology and Anatomy, Neurosurgery  
Director of Research, The Vivian L. Smith Center for  
Neurologic Research  
University of Texas Medical School at Houston  
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**CITIZENSHIP:** U.S.A.

### UNDERGRADUATE EDUCATION:

1973-1977	Utkal University B.Sc. 1977 Orissa, India	Physics (Honors), Mathematics and Chemistry
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### GRADUATE EDUCATION:

1977-1979	Indian Institute of Technology M.S. 1979 Kanpur, India	Physics
1979-1980	Indian Institute of Science Bangalore, India	Diploma 1980
1980-1985	Carnegie-Mellon University Ph.D. 1985 Pittsburgh, Pennsylvania	David D. Hackney Biological Sciences

### POSTGRADUATE TRAINING:

1986-1990	Post-doctoral Fellow Neurobiology and Behavior, College of Physicians and Surgeons of Columbia University, New York, New York.	Eric R. Kandel Neurobiology
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### ACADEMIC APPOINTMENTS:

2008-Present	Scientific Director, Mission Connect/TIRR Consortium
2003 - Present	Member, Mission Connect/TIRR Consortium.
2003 - Present	Professor, Departments of Neurobiology and Anatomy, Neurosurgery, The University of Texas Medical School at Houston.

- 2000 - 2008 Member, The Vivian L. Smith Center for Neurologic Research, The University of Texas Medical School at Houston.
- 1998 - 2003 Associate Professor with tenure, Department of Neurobiology and Anatomy, The University of Texas Medical School at Houston.
- 1991 - Present Member, Graduate School of Biomedical Sciences; The University of Texas Health Science Center at Houston.
- 1990 - 1998 Assistant Professor, Department of Neurobiology and Anatomy; The University of Texas Medical School at Houston.

**PROFESSIONAL ORGANIZATIONS (AND COMMITTEES OF THESE):**

Member, Society for Neuroscience Member,  
Member, National Society for Neurotrauma

**HONORS AND AWARDS:**

- 1991 Klingenstein Fellowship in Neuroscience
- 2000, 2006 Dean's Teaching Award (UT Med School)
- 2003 Visiting Professor, The Vivian Smith Advanced Studies Summer Institute of the International Neuropsychological Society, Xylocastro Greece.

**SERVICES:**

- 2001 Ad Hoc Member, NIH Integrative, Functional and Cognitive Neuroscience-1 Special Study Section.
- 2001- 2003 Editorial Board, News in Physiological Sciences
- 2003 External Advisory Board NIH COBRE (Center for Biomedical Research Excellence) grant, The University of Kansas.
- 2003 Member, Combat Casualty Study Section, US Army
- 2004- Member, BINP Study Section, NIH
- 2006 Session Chair, Annual Meeting for Society for Neurotrauma
- 2006-2008 Member, CIND Study Section, NIH
- 2007 Reviewer Congressionally Directed Medical Research Program (CDMRP).
- 2008-2009 Reviewer, American Institute of Biological Sciences (AIBS).

**SERVICE ON THE UNIVERSITY OF TEXAS MEDICAL SCHOOL AT HOUSTON COMMITTEES:**

Member, Faculty Senate  
Member, NBA Faculty Search Committee  
Member, Faculty Interviewer for Medical School Admissions Committee  
Member, M.D./Ph.D. Admissions Committee

Member, Bioinformatics Faculty Search Committee  
Member, NRC Executive Committee

**SERVICE ON GRADUATE SCHOOL COMMITTEES:**

Assistant Director, Neurobiology Graduate Program  
Member, Faculty Interviewer for Admissions  
Member, Curriculum Committee  
Chairman, Curriculum Committee

**Advisory Committee Member**

Michael Dulin	1991-1994
Sara Westgate	1991-1994
Andy Hudmon	1991-1997
Fan Zhang	1991-1997
Bruce Severson	1992-1993
Michael Colicos	1992-1995
David Fenyes	1992-1999
Rand Posmantur	1993-1995
Paul Flinn	1993-1996
Steve Kolb	1993-1997
Nishi Verma	1993-1995
Jing Chen	1994-1995
Thomas Gegny	1994-1997
John Gunstream	1994-1995
Jennifer Newcomb	1995-1997
Kathleen Friel	1996-1997
Chadwick Thompson	1997-1999
Tara Ginsberg	1998-1999
Xiaogang Liao	1997-1999
Tara Ginsberg	1998-1999
David Roe	1999-2004
April Johnson	1999-2005
Jennifer O'Brian	1999-2006
Jason Rall	2000-2003
Cheryl Farner	200-2003
Diana Lazell	2001-2003
Jason Runyon	2002-2004
Jing Zhao	2002-Present
Sonja Blum	2003-2005
Khalid Hanafi	2003-2004
Dorothy Long	2002-2004
Ramal Weragoda	2003-2005
Shelly Babin	2003-Present

Ashley Jager	2003-Present
Tiana Purrington	2006-Present

**Graduate Student Examining Committee Member**

Michael Dulin	1994
Andy Hudmon	1994
Rand Posmantur	1994
Sara Westgate	1994
Paul Flinn	1995
Nishi Verma	1995
Jennifer Newcomb	1997
Fan Zhang	1997
Andy Hudmon	1997
David Fenyes	1997
Xiaogang Liao	1999
Chadwick Thomson	1999
Auinash Kalsotra	2003
Khalid Hanafi	2003
Jennifer O'Brian	2004
Dorothy Long	2004
Shelly Babin	2004
Ashley Jager	2005

**Graduate Student Interviewer for Admission**

**SPONSORSHIP OF CANDIDATES FOR POSTGRADUATE DEGREE:**

Michael Colicos	1992-1995
April Johnson	1999-2005
Jason Rall	2000-2003
Diana Lazell	2001-2003
Jason Runyon	2002-2004
Jing Zhao	2002-2008
Sonja Blum	2002-2005
Bryce Vincent	2006-2007
Tiana Purrington	2006-2008
Julia Hill	2008-Present
Natalia Rozas	2008-Present

**SPONSORSHIP OF POSTDOCTORAL FELLOWS:**

Florence Noel, Ph.D.	1993
Florence Noel, Ph.D.	1994-1995
Joel Gaikwad, Ph.D.	1994-1995
Frank Adams, Ph.D.	1996-1998

John B. Redell, Ph.D.	1998-2001
David A. Matzlevich, PhD	1999-2002
Nobuhide Kobori, PhD	2000-2004
Krystin Bourne, PhD	2005-2006
John B. Redell, Ph.D.	2006-Present
Hyung Jin Ahn, PhD	2007-2008
Shibani Pati, MD, PhD	2006-2008
Jing Zhao, MD, PhD.	2008-Present

**SPONSORSHIP OF GRADUATE RESEARCH TUTORIAL:**

Michael Dulin	1991
Michael Colicos	1992
Susan Cushman	1993
Fan Zhang	1993
Chadwick Thompson	1994
Laurel Fohn	1995
Jason Milletary	1995
Jennifer O'Brien	1995
Kathleen Friel	1996
David Roe	1996
Jose Yates	1997
Tara Ginsberg	1998
April Johnson	1998
Cheryl Farner	2000
Juan Barboza	2000
Jason Rall	2000
Ramal Weragoda	2000
Diana Lazell	2000
Jason Runyon	2002
Jing Zhao	2002
Josh Neuenbal	2005
Mathew Swulius	2004
Rene Colorado	2005
Tiana Purrington	2006
Natalia Rozas	2008

**SPONSORSHIP OF SUMMER RESEARCH PROGRAM:**

	Claudia Villanueva	1991	University of Houston
	Dorothy A. Long	1994	University of Texas
	Kamalika Ghosh	1994	University of California at
Berkeley			
	Dorothy A. Long	1995	University of Texas
	Saira Beg	1998	University of Houston
	Shameek Ghosh	1999	University of Houston

Cornor Graham	2000	University of Texas Medical School, Houston
Sergio Bргуete	2002	University of Texas Medical School, Houston
Jackie Levine	2003	University of Houston

**SPONSORSHIP OF HIGH SCHOOL/UNDERGRADUATE RESEARCH PROGRAM:**

Rebecca Stout	1996	University of Houston
LeAnn Bartonico	1999	Hastings High School
Chris Hagle	2002	Strake Jesuit College Preparatory High School, Houston
William Todd	2004	Strake Jesuit College Preparatory High School, Houston
William Todd	2005	Strake Jesuit College Preparatory High School, Houston

**CURRENT TEACHING RESPONSIBILITIES:**

1. Course Director, Cellular Neurobiology II: Molecular and Developmental
2. Laboratory Instructor, Medical School Neuroanatomy Laboratory
3. Lecturer, Medical School Neuroscience Course
4. Lecturer, Cellular Neurobiology II: Molecular and Developmental
5. Lecturer, Topics in Neuroscience
6. Lecturer, Medical School Embryology

**REVIEWER:**

Neuron  
Nature Neuroscience  
Journal of Neuroscience  
Journal of Neurochemistry  
Journal of Neurophysiology  
Journal of Cerebral Blood Flow  
Journal of Neurotrauma  
Journal of Neuroscience Research  
Proceedings of the National Academy of Sciences  
Learning and Memory  
Brain Research  
Neurobiology of Learning and Memory  
Neuroscience  
Molecular Brain Research  
Experimental Neurology

**PUBLICATIONS:**

Refereed Original Articles in Journals

1. Dash, P., Lotan, I., Knapp, M., Kandel, E.R., and Goelet, P.: Selective elimination of mRNA *in vivo*: Complementary oligonucleotides promote RNA degradation by an RNase H-like activity. *Proc. Natl. Acad. Sci.* 84:7896-7900, 1987.
2. Lotan, I., Volterra, A., Dash, P., Siegelbaum, S.A. and Goelet, P.: Blockade of ion channel expression in *Xenopus* oocytes with complementary DNA probes to Na<sup>+</sup> and K<sup>+</sup> channel mRNAs. *Neuron*, 1:963-971, 1988.
3. Dash, P.K., Hochner, B., and Kandel, E.R.: Injection of cAMP-responsive element into the nucleus of *Aplysia* sensory neurons blocks long-term facilitation. *Nature*, 345:718-721, 1990.
4. Schacher, S., Ganzman, D., Barzilai, A., Dash, P., Grant, S., Keller, F., Mayford, M., and Kandel, E.R.: Long-term facilitation in *Aplysia*: Persistent phosphorylation and structural changes. *Cold Spring Harb. Symp. Quant. Biol.* 55:187-202, 1990.
5. Dash, P.K., Karl, K.A., Colicos, M.A., Prywes, R., and Kandel, E.R. (1991) CRE-binding protein is activated by Ca<sup>2+</sup>/calmodulin as well as cAMP-dependent protein kinase. *Proc. Natl. Acad. Sci.* 88:5061-5065, 1991.
6. Dash, P.K., and Hackney, D.D.: The mechanism of ATP hydrolysis by smooth muscle myosin and subfragments using steady state titration and <sup>18</sup>O exchange. *Biochem. Int.*, 25:1013-1022, 1991.
7. Dash, P.K., Traxler, B.A., Panicker, M.M., Hackney, D.D., and Minkley, E.G., Jr.: Biochemical characterization of *Escherichia coli* DNA helicase I. *Molecular Microbiology*, 6:1163-1172, 1992.
8. Dash, P.K., and Moore, A.N.: A peptide containing the leucine-zipper domain specifically inhibits CREB binding and transcription. *Cell. Mol. Biol.*, 39:35-43, 1993.
9. Dash, P.K., and Moore, A.N.: Inhibitors of endocytosis, endosome fusion, and lysosomal processing inhibit the intracellular proteolysis of the amyloid precursor protein. *Neurosci. Lett.*, 164:183-186, 1993.
10. Dash, P.K., Moore, A.N., and Dixon, C.E.: Spatial memory deficits, increased phosphorylation of the transcription Factor CREB, and induction of the AP-1 complex following experimental brain injury. *J. Neurosci.*, 15:2030-2039, 1995.

11. Dash, P.K., and Moore, A.N.: Enhanced processing of APP induced by IL-1 $\beta$  can be reduced by indomethacin and nordihydroguaiaretic acid. *Biochem. Biophys. Res. Commun.*, 17:542-548, 1995.
12. Noel, F., Frost, W.N., Tian, L-M., Colicos, M.A. and Dash, P.K.: Recovery of tail-elicited siphon-withdrawal reflex following unilateral axonal injury is associated with ipsi- and contralateral changes in gene expression in *Aplysia californica*. *J. Neurosci.* 15:6926-6938, 1995.
13. Dash, P.K. and Moore, A.N.: Characterization and phosphorylation of CREB-like proteins in *Aplysia* central nervous system. *Mol. Brain Res.* 39:43-51, 1996.
14. Long, D.A., Ghosh, K., Moore, A.N., Dixon, C.E., and Dash, P.K.: Deferoxamine improves spatial memory performance following experimental brain injury in rats. *Brain Res.* 717:109-117, 1996.
15. Moore, A.N., Waxham, M.N., and Dash, P.K.: Neuronal activity increases the phosphorylation of the transcription factor cAMP response element binding protein (CREB) in rat hippocampus and cortex. *J. Biol. Chem.* 271:14214-14220, 1996.
16. Kataoka, S., Alam, R., Dash, P.K., and Yatsu, F.M.: Calcium antagonists reduce the expression of the transcription factor AP-1 induced by PDGF on vascular smooth muscle. *Stroke* 28:364-369, 1996.
17. Colicos, M.A., Dixon, C.E., and Dash, P.K.: Delayed, selective neuronal death following experimental cortical impact injury in rats: possible role in memory deficits. *Brain Res.* 11:111-119, 1996.
18. Colicos, M.A., and Dash, P.K.: Apoptotic morphology of dentate gyrus granule cells following experimental cortical impact injury in rats: possible role in spatial memory deficits. *Brain Res.*, 11:120-131, 1996.
19. Neary, J.T., Zhu, Q., Kang, Y., and Dash, P.K.: Extracellular ATP induces formation of AP-1 complexes in astrocytes via P2 purinoceptors. *NeuroReport*, 7:2783-2896, 1997.
20. Crow, T., Siddiqi, V., and Dash, P.K.: Long-term enhancement in *Hermissenda* is a dependent upon transcription. *Neurobiology of Learning and Memory*, 68:343-350, 1997.
21. Dash, P.K., Tian, L.-M., and Moore, A.N.: Sequestration of cAMP response element-binding proteins by transcription factor decoys causes collateral



- elaboration of regenerating *Aplysia* motor neuron axons. *Proc. Natl. Acad. Sci.*, 95:8339-8344, 1998.
22. Blum, S., Moore, A.N., Adams, F.S., and Dash, P.K.: A mitogen-activated protein kinase cascade in the CA1/CA2 subfield of the dorsal hippocampus is essential for long-term spatial memory. *J. Neurosci.*, 19:3535-3544, 1999.
  23. Moore, A.N., Kampfl, A., Zhao, X., Hayes, R., and Dash, P.K.: Sphingosine-1-phosphate induces apoptosis of cultured hippocampal neurons that requires protein phosphatases and AP-1 complexes. *Neurosci.*, 94:405-415, 1999.
  24. Dash, P.K., Mach, S.A., and Moore, A.N.: Regional expression and Role of cyclooxygenase-2 following experimental traumatic brain injury. *J. Neurotrauma.*, 17:69-79, 2000.
  25. Mani, S.K., Fienberg, A.A., O'Callaghan, J.P., Snyder, G.L., Allen, P.B., Dash, P.K., Moore, A.N., Mitchell, A.J., Bibb, J., Greengard, P., and O'Malley, B.W.: Requirement for Darpp-32 in progesterone-facilitated sexual receptivity in female rats and mice. *Science*, 287:1053-1056, 2000.
  26. Dash, P.K., Blum, S., and Moore, A.N.: Caspase activity plays an essential role in long-term memory. *NeuroReport*. 11:2811-2816, 2000.
  27. Dash, P.K., Mach, S.A., Moore, A.N.: Enhanced neurogenesis in the rodent hippocampus following traumatic brain injury. *J. Neurosci. Res.*, 63:313-319, 2001.
  28. Gottesfeld, Z., Moore, A.N., and Dash, P.K.: Acute ethanol intake attenuates inflammatory cytokines following brain injury in rats: A possible role for corticosterone. *J Neurotrauma.*, 19:317-326, 2002.
  29. Matzilevich, D.A., Rall, J.M., Moore, A.N., Grill, R.J. and Dash, P.K.: High-density microarray analysis of hippocampal gene expression following experimental brain injury. *J Neurosci Res.*, 67:646-663, 2002.
  30. Dash, P.K., Mach, S.A., and Moore, A.N.: The role of extracellular receptor-activated kinase in cognitive and motor deficits following experimental traumatic brain injury. *Neuroscience*, 114:755-767, 2002.
  31. Hebert, A.E., and Dash, P.K.: Extracellular signal-regulated kinase activity in the entorhinal cortex is necessary for long-term spatial memory. *Learn Mem*, 9:156-166, 2002.

32. Dash, P.K., Mach, S.A., Blum, S., and Moore, A.N.: Intrahippocampal wortmannin administration enhances long-term memory. *Learn Mem*, 9:167-177, 2002.
33. Kobori, N., Clifton, G.L., and Dash, P. Altered expression of novel genes in the cerebral cortex following experimental brain injury. *Mol Brain Res*.104:148-58, 2002.
34. Rall, J.M., Mach, S.A., and Dash, P.K. Intrahippocampal infusion of a cyclooxygenase-2 inhibitor attenuates memory acquisition in rats. *Brain Res*. 968:273-276, 2003.
35. Redell, J.B., Moore, A.N., and Dash, P.K. Expression of the prodynorphin gene after experimental brain injury and its role in behavioral dysfunction. *Exp Biol Med* 228:261-9. 2003.
36. Rall, J.M, Matzilevich, D.A, and Dash, P.K. Comparative analysis of mRNA levels in the frontal cortex and the hippocampus in the basal state and in response to experimental brain injury. *Neuropathol Appl Neurobiol* 29:118-31, 2003.
37. Crow, T., Redell, J.B., Tian, L.M., Xue-Bian, J., and Dash, P.K. Inhibition of conditioned stimulus pathway phosphoprotein 24 expression blocks the development of intermediate-term memory in *Hermissenda*. *J Neurosci*. 23:3415-22, 2003.
38. Kalsotra, A., Turman, C.M., Dash, P.K., and Strobel, H.W. Differential effects of traumatic brain injury on the cytochrome P450 system: a perspective into hepatic and renal drug metabolism. *J Neurotrauma*. 20:1339-50, 2003.
39. Kobori, N., Waymire, J.C., Haycock, J.W., Clifton, G.L., Dash, P.K. Modulation of tyrosine hydroxylase phosphorylation and activity by glial cell line-derived neurotrophic factor. *J. Biol. Chem*. 279:2182-91, 2004.
40. Runyan, J., Moore, A.N. and Dash, P.K. A role for prefrontal cortex in memory storage for trace fear conditioning. *J. Neurosci*, 24:1288-1295, 2004.
41. Dash P.K., Hebert A.E., and Runyan J.M. A unified theory for cellular and systems memory consolidation. *Brain Res Rev*, 45:30-37, 2004.
42. Blum S. and Dash, P.K. A cell permeable phospholipase C gamma 1-binding peptide transduces neurons and impairs long-term spatial memory. *Learn Mem* 11:239-243, 2004.

43. Dash, P.K., Kobori, N., and Moore, A.N. A molecular description of brain trauma pathophysiology using microarray technology: an overview. *Neurochem Res*, 29: 1269-1280, 2004.
44. Runyan, J. and Dash, P.K. Intra-medial prefrontal administration of SCH-23390 attenuates Erk phosphorylation and long-term memory for trace fear conditioning in rats. *Neurobiol Learn and Mem* 82:65-70, 2004.
45. Dash, P.K., Mach, S.A., Moody, M.R. and Moore, A.N. Performance in long-term memory tasks is augmented by a phosphorylated growth factor receptor fragment. *J. Neurosci Res*, 15:205-216, 2004.
46. Dash P.K., Orsi, S.A., Moody, M.R., and Moore, A.N. A role for hippocampal Rho-ROCK pathway in long-term spatial memory. *Biochem Biophys Res Commun* 24:893-898, 2004.
47. Hebert A.E. and Dash P.K. Non-redundant roles for hippocampal and entorhinal cortical plasticity in spatial memory storage. *Pharm Bioch and Behav*, 79:143-153, 2004.
48. Crow T, Xue-Bian JJ, Dash PK, Tian LM. Rho/ROCK and Cdk5 effects on phosphorylation of a beta-thymosin repeat protein in *Hermissenda*. *Biochem Biophys Res Commun*, 323:395-401, 2004.
49. Dash P.K., Moore A.N., Moody M.R., Treadwell R., Felix J.L. and Clifton G.L. Post-trauma administration of caffeine plus ethanol reduces lesion volume and improves working memory in rats. *J. Neurotrauma* 21: 1573-1583, 2004.
50. Hebert A.E., and Dash P.K. Plasticity in the entorhinal cortex suppresses memory for contextual fear. *J. Neurosci.* 24: 10111-10116, 2004.
51. Runyan J.D., and Dash, P.K. Inhibition of hippocampal protein synthesis following recall disrupts expression of episodic-like memory in trace conditioning. *Hippocampus* 15:333-339, 2005.
52. Runyan J.D., Moore A.N., and Dash P.K. A Role for prefrontal calcium-sensitive protein phosphatase and kinase activities in working memory. *Learn Mem.* 12:103-110, 2005.
53. Dash P.K., Orsi S.A. and Moore A.N. Sequestration of serum response factor in the hippocampus impairs long-term spatial memory. *J. Neurochem.* 93:269-278, 2005.

54. Runyan J.D. and Dash P.K. Distinct prefrontal molecular mechanisms for information storage lasting seconds versus minutes. *Learn Mem.* 12:232-238,2005.
55. Zhao J., Moore A.N., Clifton G.L. and Dash P.K. Sulforaphane enhances aquaporin-4 expression and decreases cerebral edema following traumatic brain injury. *J. Neurosci Res.* 82:499-506, 2005
56. Dash P.K., Moore A.N. and Orsi S.A. Blockade of gamma-secretase activity within the hippocampus enhances long-term memory. *Biochem. Biophys. Res. Commun.* 338:777-782, 2005
57. Vazquez-Chona FR, Khan A.N., Chan C.K., Moore A.N., Dash P.K., Hernandez M.R., Lu L., Chesler E.J., Manly K.F., Williams R.W. and Geisert E.E. Jr. Genetic networks controlling retinal injury. *Mol Vis.* 11:958-970, 2005.
58. Zhao J., Kobori N., Aronowski N, and Dash P.K. Sulforaphane reduces infarct volume following focal cerebral ischemia in rodents. *Neurosci. Lett.* 393:108-112, 2006.
59. Blum S., Hebert A.E. and Dash P.K. A role for the prefrontal cortex in recall of recent and remote memories. *NeuroReport*, 17:341-344, 2006.
60. Kobori, N., Clifton, G.L., Dash, P.K. Enhanced catecholamine synthesis in the prefrontal cortex following traumatic brain injury: Implication for prefrontal dysfunction. *J. Neurotrauma*, 23:1094-1102, 2006
61. Kobori, N., Moore, A.N., Dash, P.K. GDNF abates serum deprivation-induced tyrosine hydroxylase Ser19 phosphorylation and activity. *Brain Res.* 1086:142-151, 2006.
62. Kobori, N., and Dash, P.K. Reversal of brain injury-induced prefrontal GAD expression and working memory deficits by D1 receptor antagonism. *J. Neuroscience.* 26:4236-4246, 2006
63. Dash, P.K., Orsi, S.A. and Moore, A.N. Spatial memory formation and memory-enhancing effect of glucose involves activation of the tuberous sclerosis complex-Mammalian target of rapamycin pathway. *J Neurosci.* 26:8048-8056, 2006.
64. Blum, S., Runyan, J.D. and Dash, P.K. Inhibition of prefrontal protein synthesis following recall does not disrupt memory for trace fear conditioning. *BMC Neurosci.* 7:67, 2006.

65. Kalsotra A., Zhao J., Anakk S., Dash, P.K., Strobel H.W. Enhanced lung inflammation and injury after brain trauma. Evidence for cytochrome P4504Fs as signal of resolution. *J Cereb. Blood Flow Metab*, 2006 (Epub ahead of print).
66. Redell, J.B. and Dash, P.K. Traumatic brain injury stimulates hippocampal catechol-O-methyl transferase expression in microglia. *Neurosci Lett*. 413:36-41, 2007.
67. Redell, J.B., Zhao, J. and Dash, P.K. Acutely increased cyclophilin A expression after brain injury: a role in blood-brain barrier function and tissue preservation. *J. Neurosci. Res*. 85:1980-1988, 2007.
68. Zhao, J., Moore, A.N., Redell, J.B. and Dash, P.K.: Enhancing expression of Nrf2-driven genes protects the blood-brain barrier following brain injury. *J. Neurosci*. 19: 10240-10248, 2007.
69. Zhao X, Sun G, Zhang J, Strong R, Dash PK, Kan YW, Grotta JC, Aronowski J. Transcription factor Nrf2 protects the brain from damage produced by intracerebral hemorrhage. *Stroke*. 38:3280-3286, 2007
70. Hergenroeder, G., Redell, J.B., Moore, A.N., Dubinsky W.P., Funk, R.T., Crommett, J., Clifton, G.L., Levine, R., Valadka, A., and Dash, P.K. Identification of serum biomarkers in brain injured adults: potential for predicting elevated intracranial pressure. *J. Neurotrauma* 25:79-93, 2008.
71. Balasubramanian, B., Portillo W., Reyna, A., Chen J.Z., Moore, A.N., Dash, P. K., and Mani, S.K. Non-classical mechanisms of progesterone action in the brain: I. PKC activation in the hypothalamus of female rats. *Endocrinology*, [Epub ahead of print], 2008.
72. Balasubramanian, B., Portillo W., Reyna, A., Chen J.Z., Moore, A.N., Dash, P. K., and Mani, S.K. Non-classical mechanisms of progesterone action in the brain: II. CaMKII in progesterone-mediated signaling in the hypothalamus of female rats. *Endocrinology*, [Epub ahead of print], 2008
73. Wang, Y., Kalsotra, A., Zhao, J., Turman, C.M., Grill, R.J., Dash, P.K., and Strobel, H.W. CYP4Fs expression in rat brain correlate with changes in LTB4 levels after traumatic brain injury. *J. Neurotrauma*. 25: 187-194, 2008.
74. Redell, J.B., Liu, Y. and Dash, P.K. Traumatic brain injury alters expression of hippocampal microRNAs: potential regulators of multiple pathophysiological processes. *J. Neurosci Res* [Epub ahead of print], 2008.

75. Pati, S., Orsi, S.A., Moore, A.N. and Dash, P.K. Intra-hippocampal administration of the VEGF receptor blocker PTK787/ZK222584 impairs long-term memory. *Brain Res.* [Epub ahead of print], 2008.
76. Saatman K.E., Duhaime, A.C., Bullock, R., et al. Classification of traumatic brain injury for targeted therapies. *J Neurotrauma*, 15: 719-738, 2008.
77. Hergenroeder, G.W., Redell, J.B., Moore, A.N. and Dash P.K. Biomarkers in the clinical diagnosis and management of traumatic brain injury. *Mol Diagn Ther* 12: 345-358, 2008.
78. Hoskison, M.M., Moore, A.N., Hu, B., Orsi, S.A., Kobori, N. and Dash, P.K. Persistent working memory dysfunction following traumatic brain injury: evidence for a time-dependent mechanism. *Neuroscience* (in press).
79. Harting, M.T., Smith, C.T., Radhakrishnan, R.S., Aroom, K.R., Dash, P.K., Gill, B. and Cox, C.S. Jr. Regional differences in cerebral edema after traumatic brain injury identified by impedance analysis. *J Surg Res.* [Epub ahead of print], 2008.
80. Harting, M.T., Jimenez F, Xue, H, Fischer, U.M., Baumgartner, J, Dash, P.K., and Cox, C.S. Jr. Intravenous Mesenchymal Stem Cell Therapy for Traumatic Brain Injury? *J. Neurologic Surg* (in press).

### C. Invited Articles

1. Dash, P., Sweatt, J.D., Kennedy, T.E., Barzilai, A., Kuhl, D., and Kandel, E.R.: Molecular mechanisms of long-term memory in *Aplysia*. In: *The Biology of Memory.* F.K. Schattauer Verlag, Stuttgart-New York, pp. 81-88, 1989.
2. Cui X., Kalsotra A., Robida A.M., Matzilevich, D., Moore, A.N., Boehme C.L., Morgan E.T., Dash P.K. and Strobel H.W.: Expression of cytochromes 4F4 and 4F5 in infection and injury models of inflammation, *Biophys Acta*.1619:325-31, 2003.
3. Strobel H.W., Kalsotra A. and Dash P.K.: Cytochrome P450 4Fs: response and role following brain injury. 13<sup>th</sup> Intl Conf Cytoch P450. Monduzzi ed., Medimond Inc., 2003.
4. Dash, P.K., Kobori, N., and Moore, A.N. A molecular description of brain trauma pathophysiology using microarray technology: an overview. *Neurochem Res*, 29: 1269-1280, 2004.

5. Dash, P.K. and Moore A.N. Cellular and molecular mechanisms of simple and complex forms of learning and memory. *Handbook of Neurochem.and Molecular Neurobiology* Springer Ref. Vol., Blaustein J ed, 739-774, 2007.
6. Dash, P.K., Moore, A.N., Kobori, N. and Runyan, R.D. Molecular activity underlying working memory. *Learning and Memory* 14: 554-563, 2007.

#### D. Book Chapters

1. Mani, S.K., and Dash, P.K.: *Steroid-mediated behaviors and their regulation by antisense oligonucleotides*. M. M. McCarthy ed., Kluwer Academic Publishers, Boston, pp 141-153, 1998.
2. Dash P.K., Runyan R.D., Blum S., Hebert A.E., Simos P.G. and Papanicolaou A.C. Putative brain mechanisms of various memory functions in *The Amnesias*. Oxford Univ Press, New York, pp 30-56, 2006.
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#### E. Other Professional Communications

1. Chair, Slide Session at the Annual Society for Neuroscience, Washington DC, 2005.
2. Chair, Session on Signaling in Short and Long-term Memory, 24th National Neurotrauma Society Meeting, St. Louis, 2006.
3. Chair. Session on Rehabilitation Therapy: Does it work, 25th National Neurotrauma Society Meeting, Kansas City, MO, 2007.