

CURRICULUM VITAE

Name: Peter John Morin

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Place of Birth: Worcester, MA

Education: 1992 M.D. Boston University School of Medicine
Cum laude

1992 Ph.D. Boston University School of Medicine
Department of Biochemistry
Cellular neurobiology

1984 B.A. Colby College, Waterville, ME
Physics

Postdoctoral Training:

7/92-6/93 St. Elizabeth's Hospital of Boston, Brighton, MA
Internship in Medicine

7/93-6/96 Longwood Neurology Training Program, Boston
Residency Program in Neurology leading to Board Eligibility
House Staff at Brigham and Women's Hospital, Beth Israel Hospital,
Boston Children's Hospital, Dana Farber Cancer Institute, New England
Deaconess Hospital, and West Roxbury and Brockton Veteran's
Administration Hospitals

7/96-7/99 Research and Clinical Fellow, Brigham and Women's Hospital
Molecular Biology of Alzheimer's and Neurodegenerative Disease
Center for Neurological Disease at Brigham and Women's Hospital
Recipient of NINDS MSCDA (K08) Award
Behavioral Neurology, Brigham and Women's Hospital, Boston

Licensure and Certification:

7/1/95 Massachusetts Medical License Registration No. 81576

11/15/99 Maine Medical License Registration No. 015135

1998 American Board of Psychiatry and Neurology (Neurology)
Recertified 2007

Academic Appointments:

1993-1999 Clinical Fellow in Neurology, Harvard Medical School, Boston
1996-1998 Research Fellow in Neurology, Harvard Medical School, Boston
1998-1999 Instructor, Department of Neurology, Harvard Medical School
2002-2006 Instructor, Department of Neurology, Boston University School of
Medicine
2006-pres Assistant Professor, Departments of Neurology and Biochemistry
Boston University School of Medicine

Hospital Appointments:

1993-1997 Brigham and Women's Hospital, Boston
Clinical Fellow in Medicine (Neurology)
1998-1999 Brigham and Women's Hospital, Boston
Associate Neurologist
1999-2001 St. Joseph Hospital, Bangor, ME
Neurologist
1999-2006 Eastern Maine Medical Center, Bangor, ME
Neurologist
1999-pres Houlton Regional Hospital, Houlton, ME
Neurologist
2003-2005 Bedford VA Hospital, GRECC Director of Outpatient Services
2005-2007 Bedford VA Hospital, GRECC Inpatient Clinical Director
2005-pres. Bedford VA Hospital, Director of Physician Education for Geriatric
Fellowships (Harvard and Boston University)
2007-pres. Bedford VA Hospital, GRECC Associate Clinical Director

Private Practice:

7/99-6/00 Neurology Associates of Eastern Maine, P.A.
Bangor, ME
Associate Neurologist
7/00-11/01 Neurology Associates of Eastern Maine, P.A.
Director, Alzheimer's and Memory Disorders Clinic
Partner Neurologist
Bangor, ME

Professional Societies:

1986 Massachusetts Medical Society
1988 American Medical Association
1995 American Academy of Neurology
1998 American Academy of Science
1998 American Society for Cell Biology
1998 Society for Aging
1999 Maine Medical Society

1999 Penobscot Medical Society
1999 Maine Neurological Association

Awards and Honors:

1992 Alpha Omega Alpha
1992 Ciba-Geigy Prize in Neurological Sciences
1996-1999 NINDS MSCDA (K08) Award (Alzheimer's disease cell biology)
2007-2008 NIA Pilot Award (Alzheimer's disease cell biology)
2007-2010 Veteran's Administration Merit Award (Alzheimer's disease cell biology)

Other Appointments/Activities:

1996 Advanced Treatment Strategies, Inc. Private sector clinical trials, clinician
1996-1999 HRI Psychiatric Hospital, Brookline, MA. Inpatient medical staff
1996-1999 Arbor Psychiatric Hospital, Boston, MA. Inpatient medical staff
2000-2002 Alzheimer's Association, Maine Chapter. Board of Directors, member
2006-pres. Bedford VA Hospital Institutional Review Board, member
2007-pres. Bedford VA Hospital Ethics Committee, member

Clinical Research Activity

1. Treatment of Agitation and Psychosis in Dementia/Parkinsonism (TAP/DAP)
Principle Investigator- completed
2. Phase II Trial of NS2330 in Alzheimer's Disease
Principle Investigator- completed
3. Relationship of Pain Threshold and Cognitive Function in AD
Principle Investigator- completed
4. Cholesterol Lowering Agents to Slow progression of AD (CLASP-AD)
Principle Investigator- completed
5. Effect of Memantine and Food intake in AD
Principle Investigator- completed
6. Leuprolide for treatment of AD
Principle Investigator- completed
7. BUSM Biorepository for Brain Research
Co-Principle Investigator
8. Boston University ADC
Staff Investigator
9. A Randomized, Double-Blind, Placebo-Controlled, Efficacy, Safety, and Tolerability Study of Bifeprunox in the treatment of Elderly Subjects with Psychosis and Behavioral Disturbances Associated with Dementia of the Alzheimer's Type
Principle Investigator

Presentations:

1985-1999	Numerous abstracts presented at scientific meetings
1999-2002	Alzheimer's Disease: Research and Treatments on the Horizon Series of presentations to Primary Care Physicians
2000-2001	Updates on Multiple Sclerosis MS Society sponsored events for newly diagnosed patients
2001-2002	Numerous presentations to physicians about Alzheimer's Disease; participating in Speakers' Bureau for Pfizer, Inc. and Jansen, Inc.
2002	Featured speaker on Alzheimer's disease Research at the Annual Meeting of the Alzheimer's Association, Maine Chapter
2002-2007	Alzheimer's Disease Update and presentation of Boston University Alzheimer's Disease Center Clinical Research Program (numerous community presentations)
2004	Boston Alzheimer's Society, invited speaker
2004	Pittcon, invited speaker on spectroscopy in AD diagnostics
2004-2007	GRECC Open House (annual)- featured speaker on AD research
2005	Alzheimer's Association and Massachusetts Medical Society Grand Rounds Program (speaker in series of physician education programs)
2006	Grand Rounds, Houlton Regional Hospital, Houlton, ME
2007	Ethical Considerations in Advanced Dementia Care GRECC Family Education Program

Report of Research:

Major Research Interests:

My primary interest is the molecular biology of Alzheimer's Disease pathophysiology. Current work focuses on the role of Wnt signaling and lipoprotein receptor-related proteins in Alzheimer's disease using molecular and cell biological methods. Recent studies have identified an interaction between the Wnt co-receptor, Lrp6, and the retromer core protein, vps35. This interaction unites two broad areas of Alzheimer's research, namely neurodevelopmental signaling and endosomal protein transport.

Over the past few years, I have also begun to apply a new imaging technology based on FT-IR spectroscopy to analysis of AD in human brain samples. Application of biophotonic techniques to pathological samples and cultured cells may provide new perspectives in neuronal cell biology.

Recently I have initiated studies of endogenous stem cell signaling and neurogenesis in Alzheimer's disease. Using BrdU labeling and gene arrays, this project will investigate the interactions between cortical Wnt signaling and endogenous neural stem cell populations in Alzheimer's disease.

I also maintain an active clinical research program. Currently, I serve as Site Director of the simvastatin trial at Boston University and as Principle Investigator of several ongoing clinical trials. I am participating in the development of a Women's Dementia Unit at the Bedford VA Hospital GRECC Unit.

Report of Teaching:

- 1995, 1996 Harvard Medical School II Neuroscience Block
Laboratory Instructor: reviewed basic CNS anatomy, physiology, and clinical case material with 15-20 2nd year medical students
- 1997-1999 Harvard medical School; Directed full time undergraduate summer research interns
- 2004-2005 Bedford VA; Clinical instruction of Geriatric Fellows in the GRECC Outpatient Clinics
- 2004-pres Boston University School of Medicine, Department of Biochemistry. Lecturer in Graduate School course, "Molecular Biology of Neurodegenerative Diseases". Schizophrenia Lectures.
- 2004-2005 Directed a full time undergraduate summer research intern
- 2005-pres Bedford VA; Instruction of Geriatric and Geriatric Psychiatry fellows in the Boston University School of Medicine and Harvard Medical School Geriatrics Fellowship Program, GRECC Rotation
- 1995-2005 Introduction of high school students to laboratory science; I have provided lab exposure to numerous high school students and collaborate with a local charter school in providing life science enrichment.

Original Reports:

1. Bielinski DF, Morin PJ, Dickey, BF, Fine RE. Low molecular weight GTP-binding proteins are associated with neuronal organelles involved in rapid axonal transport. J Biol Chem. 1989; 264: 18363-18367.
2. Fishman JM, Cahill M, Morin PJ, McCrory M, Bucher NLR, Ullman D. Specific gangliosides increase rapidly in rat liver following partial hepatectomy. Biochem Biophys Res Commun. 1991; 174; 638-646.
3. Morin PJ, Lui N, Johnson RJ, Leeman SE, Fine RE. Isolation and characterization of rapid transport vesicle subtypes from the rabbit optic nerve. J Neurochem. 1991; 56; 415-427.
4. Morin PJ, Johnson RJ, Shachar I, Fine RE, Leeman SE. Characteristics of tachykinin transport vesicles in the optic nerve. Ann NY Acad Sci. 1991; 632; 442-443.
5. Morin PJ, Johnson RJ, Fine RE. Kinesin is rapidly transported in the optic nerve as a membrane associated protein. Biochem Biophys Acta. 1993; 1146(2); 275-281.
6. Morin PJ, Abraham CR, Amaratunga A, Johnson RJ, Huber G, Sandell JH, Fine RE. Amyloid precursor protein is synthesized by retinal ganglion cells, rapidly transported to axolemma, and metabolized. J Neurochem. 1993; 61(2); 464-473.

7. Amaratunga A, Morin PJ, Kosik KS, Fine RE. Inhibition of kinesin synthesis and rapid anterograde axonal transport in vivo by an antisense oligonucleotide. J Biol Chem. 1993; 268(23): 17427-17430.
8. Morin PJ, Medina M, Brown AMC, Kosik KS. Wnt-1 expression alters APP metabolism. Neurobiology of Aging. 1998a; 19(4S): S38
9. Morin PJ, Medina, M, Seminov, M, Brown, AMC, and Kosik, K. Wnt-1 induces splicing of exon 15 and expression of L-APP. Neurobiology of Disease. 2004; 16;59-67.
10. Morin PJ, Miseo, EV, Wright, NA, Gouras, GK, Hanlon, E, McKee, A, Dedeoglu, A, Fine, RE, Kubilus, CI, Ferrante, RJ, and Kowall, NW. FT-IR microspectroscopic imaging; analysis of Alzheimer's disease and Transgenic mouse amyloid plaque. Leonard Berg Symposium Abstract. 2003.
11. Morin PJ, Miseo, EV, Wright, NA, Gouras, GK, Hanlon, E, McKee, A, Dedeoglu, A, Fine, RE, Kubilus, CI, Ferrante, RJ, and Kowall, NW. FT-IR microspectroscopic imaging; analysis of Alzheimer's disease and Transgenic mouse amyloid plaque. PittCon, 2004. Invited speaker.
12. Stack, E, Ferrante, RJ, Kowall, NW, and PJ Morin. Neurogenesis in retrosplenial cortex of Tg2576 mice. 2006 Abstract. ICAD, Madrid, Spain.
13. Eisenhaur, PB, George, A, Leahy, H, Matheson, SM, and PJ Morin. Wnt-PCP signaling regulates cytoskeletal remodeling and neurite growth: effects on APP metabolism. 2006 Abstract. ICAD, Madrid, Spain.
14. George, A, Leahy, H, Zhou, JZ, and PJ Morin. The V-ATPase inhibitor bafilomycin and mutant VPS35 inhibit canonical Wnt signaling. Neurobiology of Disease. 2007: Apr; 26(1): 125-33.

Dissertation:

Morin PJ. Rapid Transport Vesicles of the Rabbit Optic Nerve. Boston University, 1992.

Patents:

Kosik K, Morin PJ. Methods and compounds for treating Alzheimer's disease. Docket No. 05311/02001.