UNIVERSITY OF PENNSYLVANIA - PERELMAN SCHOOL OF MEDICINE
Curriculum Vitae

Date: 07/15/2011

Brian Harding

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If you are not a U.S. citizen or holder of a permanent visa, please indicate the type of visa you have:
none (U.S. citizen)

Education:

1969	B.A.	Worcester College, University of Oxford (Animal Physiology)
1976	D.Phil.	Dept of Anatomy University of Oxford (Thesis: A Study of certain nuclei of the thalamus)
1976	B.M. B.Ch.	University of Oxford (& St George's Hospital Medical School London)
1976	M.A.	Worcester College, University of Oxford (Animal Physiology)

Postgraduate Training and Fellowship Appointments:

1976	House officer in Medicine, St James Hospital Balham SW12
1976-1977	House officer in Surgery, St George's Hospital, Hyde Park Corner, London SW1
1977-1979	Senior House officer/Registrar, Pathology St George's Hospital, London SW1 & SW17
1979-1980	Senior Registrar in Histopathology, St George's Hospital, London SW17
1980-1983	Senior Registrar in Neuropathology, National Hospital for Neurology and Neurosurgery, Queens Square, London WC1

Faculty Appointments:

1983-1994	Senior Lecturer in Neuropathology, Institute of Child Health, University College London
1983-1994	Senior Lecturer in Neuropathology, Institute of Neurology, University College London
1994-2008	Honorary Senior Lecturer, The Institute of Neurology of the University of London
1994-2008	Honorary, Senior Lecturer in Neuropathology, Institute of Neurology, University College London
2009-present	Professor of Pathology and Laboratory Medicine at the Children's Hospital of Philadelphia, University of Pennsylvania School of Medicine

Hospital and/or Administrative Appointments:

1983-1994	Honorary Consultant in Neuropathology, Great Ormond Street Hospital for Children NHS Trust, London England
1983-1994	Honorary Consultant in Neuropathology, National Hospital for Neurology and Neurosurgery, London England
1994-2008	Consultant Neuropathologist, Great Ormond Street Hospital for Children NHS Trust, London England
1994-2008	Honorary, Senior Lecturer in Neuropathology, The Institute of Neurology of the University of London

Specialty Certification:

1982	MRCPath Royal College of Pathologists (Neuropathology)
1994	FRCPath Royal College of Pathologists (Neuropathology)

Licensure:

1976-Present	Annual Registration Certificate of the General Medical Council, England
2009-2012	PA MEDICAL LICENSE

Memberships in Professional and Scientific Societies and Other Professional Activities:

International:

1981-Present	British Neuropathology Society (Member)
1985-2008	British Paediatric Neurology Association (Member)
1986-1989	British Neuropathology Society (Committee)
1990-Present	Royal College of Pathologists (UK) scheme (Member)
1990-2008	Societe Francaise de Neuropathologie (Member)
2004-Present	Clinical Pathology Accreditation Ltd (UK) (National Assessor)
2005-2008	Royal College of Pathologists (UK) scheme (Examiner in Neuropathology)
2007-2008	Royal College of Pathologists (UK) scheme (Chair Neuropathology Subcommittee)

National:

1989-Present	American Association of Neuropathologists (Member)

Local:

2010-Present	The College of Physicians of Philadelphia (Member)

Editorial Positions:

1990-2008	Editorial Board, Journal of Child Neurology

2002-Present	Editorial Board, Brain Pathology

Major Academic and Clinical Teaching Responsibilities:

1980-2008	Clinico-Pathologic Conferences, National Hospital for Neurology
1990-2008	Advanced course in Paediatric Muscle Disease Great Ormond Street hospital
1992-2008	Advances in Paediatric Pathology, Great Ormond Street hospital
2008-Present	Brain and Behavior -University of Pennsylvania
2008-Present	Pediatric Pathology Didactic Lecture Series - The Children's Hospital of Philadelphia

Lectures by Invitation:

Mar, 2006	"Metabolic disorders" - Euro-CNS Course Developmental Neuropathology, Oxford, United Kingdom.
May, 2006	"Mitochondrial disease" - Euro-CNS Course Developmental Neuropathology, Oxford, United Kingdom.
Nov, 2007	"Leukodystrophies"- CNS advanced neuropathology course, Turin, Italy
Apr, 2008	"Clinico-pathologic correlations in dysraphic states"- American Association of Neuropathologists, San Diego
May, 2008	"Metabolic/degenerative diseases associated with Epilepsy"- European Congress of Neuropathology, Athens, Greece
Mar, 2010	European Confederation of Neuropathological Societes, Basic Neuropathology, Aachen, Germany
Sep, 2010	"The surgical pathology of epilepsy in childhood: what does morphology teach us", The Slovenian Paediaric Association Congress, Ljubljana Slovenia
Sep, 2010	"Proving the Phenotype - Morphological observations of rare leukodvstrophies in the genomic age", Children's Hospital for the University Medical Centre Ljubljana, Ljubljana Slovenia
Feb, 2011	Society of Pediatric Pathology- Seattle Washington

Organizing Roles in Scientific Meetings:

1984	Host Organizer of The British Neuropathology Meeting New York
1995	Host Organizer of The British Neuropathology Meeting New York
Jan, 2004	Euro- CNS Neuropathology Teaching Conferences Amsterdam
Jan, 2007	Euro - CNS Neuropathology Teaching Conference Oxford

Bibliography:

Research Publications, peer reviewed (print or other media):

1. Harding, B. N.: Dendro-dendritic synapses, including reciprocal synapses, in the ventrolateral nucleus of the monkey thalamus. Brain Research 34: 181-185, 1971.

2. Harding, B. N.: An ultrastructural study of the termination of afferent fibers within the ventrolateral and centre median nuclei of the monkey thalamus. Brain Research 54: 335-340, 1973.

3. Harding, B. N.: An ultrastructural study of the centre median and ventrolateral thalamic nuclei of the monkey. Brain Research 54: 335-340, 1973.

4. Harding, B. N., Powell, T. P. S.: An electron microscopic study of the centre-median and ventrolateral nuclei of the thalamus in the monkey. Philosophical Transactions of the Royal Society B 279: 357-412, 1977.

5. Dodd, P. R., Hardy, J. A., Bradford, H. F., Bennett, G. W., Edwardson, J. A., Harding, B. N. : Metabolic and secretory processes from nerve endings isolated from post-mortem brain. Neuroscience Letters 11: 87-92, 1979.

6. Harding, B. N., Erdohazi, M.: Traumatic transection of the brainstem. Journal of Neurology, Neurosurgery and Psychiatry 44: 1156-1158, 1981.

7. Valentine, A. R., Kendall, B. E., Harding, B. N. : Computed tomography in acute haemorrhagic leucoencephalitis. Neuroradiology 22: 215-219, 1982.

8. Harding, B. N., Leonard, J. V., Erdohazi, M. : Ornithine transcarbamylase deficiency. European Journal of Pediatrics 141: 215-220, 1984.

9. Krarup, A., Davis, C. H., Symon, L., Harding, B. N., Hay, R. J. : Spinal blastomycosis - case report. Journal of Neurology, Neurosurgery and Psychiatry 47: 217-218, 1984.

10. Harding, B. N., Tudway, J. C., Wilson, A. J.: Neuropathological studies in a child showing some features of Rett's syndrome. Brain Dev. 7: 342-345, 1985.

11. Torres, L. F., Grant, N., Harding, B. N., Scaravilli F. : Intracerebral neuroblastoma. Report of a case with neuronal maturation and long survival. Acta Neuropathologica 68: 110-114, 1985.

12. Winter, R. M., Wigglesworth, J., Harding, B. N.: Osteodysplastic primordial dwarfism. Report of a further patient with manifestations similar to those seen in patients with Types I and III. Journal of Medical Genetics 26: 788-789, 1985.

13. Burn, J., Wickramasinghe, T., Harding, B. N., Baraitser, M.: A syndrome of intracerebral calcification and microcephaly in 2 siblings, resembling intrauterine infection. Clinical Genetics 30: 112-116, 1986.

14. Clayton, P. T., Smith, I., Harding, B. N., Leonard, J. V., Hyland, K., Leeming, R. J.: Subacute combined degeneration of the cord, dementia and Parkinsonism due to an inborn error of folate metabolism. Journal of Neurology, Neurosurgery and Psychiatry 49: 920-927, 1986.

15. Harding, B. N., Egger, J., Portmann, B., Erdohazi, M.: Progressive neuronal degeneration of childhood with liver disease. A pathological study. Brain 109: 181-206, 1986.

16. Leonard, J. V., Pembrey, M. E., Oley, C.A., Harding, B. N.: Neuropathologic changes in ornithine carbamoyl transferase deficiency. J. Pediatr. 109(6): 1074, DEC 1986.

17. Thompson, E. M., Harding, B. N., Lake, B. D., Smith, S. C.: Necropsy findings in a child with FG syndrome. Journal of Medical Genetics 23: 372-373, 1986.

18. Egger, J., Harding, B. N., Boyd, S. G., Wilson, J., Erdohazi, M. : Progressive neuronal degeneration of childhood (PNDC) with liver disease. Clinical Pediatrics 26: 167-173, 1987.

19. Kendall, B. E., Boyd, S. G., Egger, J., Harding, B. N.: Progressive neuronal degeneration of childhood with liver disease: Computed tomographic features. Neuroradiology 29: 174-180, 1987.

20. Ramaekers, T., Lake, B. D., Harding, B. N., Boyd, S., Harden, A., Brett, E. M., Wilson, J. : Diagnostic difficulties in infantile neuroaxonal dystrophy: a clinicopathological study of eight cases. Neuropediatrics 18: 170-175, 1987.

21. Harding, B. N., Baumer, J. A. : Congenital varicella-zoster: a serologically proven case with necrotizing encephalitis and malformation. Acta Neuropathologica 76: 311-315, 1988.

22. Harding, B. N., Dunger, D. B., Grant, D. B., Erdohazi, M.: Familial olivopontocerebellar atrophy with neonatal onset a recessively inherited syndrome with systemic and biochemical abnormalities. Journal of Neurology, Neurosurgery and Psychiatry 51: 385-390, 1989.

23. Patton, M. A., Giannelli, F., Francis, A. J., Baraitser, M., Harding, B., Williams, A. J.: Early onset Coackayne's syndrome: case reports with neuropathological and fibroblast studies. Journal of Medical Genetics 26: 154-159, 1989.

24. Winter, R. M., Harding, B. N., Hyde, J. : Unknown syndrome: pachygyria, joint contractures, and facial abnormalities. Journal of Medical Genetics 26: 788-789, 1989.

25. Bentley, M., Parkinson, C., Harding, B. N., Bains, R. M., Lantos, P. L. : A comparative morphological and immunohistochemical study of testicular seminomas and intracranial germinomas. Histopathology 17: 443-450, 1990.

26. Harbord, M. G., Harden, A., Harding, B. N., Brett, E. M., Baraitser, M. : Megalencephaly with dysmyelination, spasticity, ataxia, seizures and distinctive neurophysiological findings in two siblings. Neuropediatrics 21: 164-168, 1990.

27. Jacobs, J. M., Harding, B. N., Lake, B. D., Payan, P., Wilson, J. : Peripheral neuropathy in Leigh's syndrome. Brain 113: 447-462, 1990.

28. Newcombe, J., Harding, B. N., Cuzner, M. L. : Monoclonal Antibody 14E. An immunocytochemical marker of human oligodendrocytes and a subpopulation of reactive glial cells. Annals of the New York Academy of Sciences 605: 496-498, 1990.

29. Truong, D. D., Harding, A. E., Scaravilli, F., Smith, S. J., Morgan Hughes, J. A., Marsden, C. D.: Movement disorders in mitochondrial myopathies. A study of nine cases with two autopsy studies. Mov. Disord. 5: 109-117, 1990.

30. Harding, B. N., Boyd, S. : Intractable seizures from infancy can be associated with dentato- olivary dysplasia. Journal of the Neurological Sciences 104: 157-165, 1991.

31. Harding, B. N., Leonard, J. V., Erdohazi, M.: Propionic acidaemia: a neuropathological study of two patients presenting in infancy. Neuropathology and Applied Neurobiology 17: 133-138, 1991.

32. Horslen, S. P., Clayton, P. T., Harding, B. N., Hall, N. A., Keir, G., Winchester, B.: Neonatal onset olivopontocerebellar atrophy and disialotransferrin deficiency syndrome. Archives of Disease in Childhood 66: 1027-1032, 1991.

33. Pople, K., Harding, B.: Primary intracranial malignant fibrous histiocytoma in a five year old boy: Case report. British Journal of Neurosurgery 5: 509-513, 1991.

34. Scheffer, E., Baraitser, M., Wilson, J. Harding, B., Kendall, B., Brett, E. M. : Pelizaeus-Merzbacher Disease: classical or connatal? Neuropediatrics 22: 71-78, 1991.

35. Tasker, R. C., Boyd, S. G., Harden, A., Kendall, B., Harding, B. N., Matthew, D. J. : The clinical significance of seizures in critically ill young infants requiring intensive care. Neuropediatrics 22: 129-138, 1991.

36. Woody, R. C., Harding, B. N., Brumback, R. A., Leech, R. W. : Absence of beta-amyloid immunoreactivity in mesial temporal lobe in Cockayne's syndrome. Journal of Child Neurology 6: 32-34, 1991.

37. Wroe, S. J., Pires, M., Harding, B., Youl, B. D., Shorvon, S.: Whipple's Disease confined to the CNS presenting with multiple intracerebral mass lesions. Journal of Neurology, Neurosurgery and Psychiatry 54: 989-992, 1991.

38. Bhattacharjee, M. B., Wroe, S. J., Harding, B. N., Powell, M. : Sinus histiocytosis with massive lymphadenopathy: Isolated suprasellar involvement. Journal of Neurology, Neurosurgery and Psychiatry 55: 156-158, 1992.

39. McShane, M. A., Boyd, S., Harding, B., Brett, E. M., Wilson, J.: Progressive bulbar paralysis of childhood: a reappraisal of Fazio-Londe disease. Brain 115: 1889-1900, 1992.

40. Bailey, A., Luthert, P., Bolton, P., Le Couteur, A., Rutter, M., Harding, B. : Autism and megalencephaly. Lancet 341: 1225-1226, 1993.

41. Pridmore, L., Baraitser, M., Harding, B., Boyd, S. G., Kendall, B., Brett, E. M.: Alexander's Disease: clues to diagnosis. Journal of Child Neurology 35: 727-741, 1993.

42. Cavanagh, J. B., Harding, B. : Pathogenic factors underlying the lesions in Leigh's Disease: Tissue responses to cellular energy deprivation and their clinico-pathological consequences. Brain 117: 1357-1376, 1994.

43. Raymond, A., Halpin, S. F. S., Alsanjari, N., Cook, M. K., Kitchen, N. D., Fish, D. R., Stevens, J. M., Harding, B., Scaravilli, F., Kendall, B., Shorvon, S. D., Neville, B. R. : Dysembryoplastic neuroepithelial tumour. Features in 16 patients. Brain 117: 461-475, 1994.

44. Harding, B., Alsanjari, N., Smith, S. J. M., Wiles, C. M., Thrush, D., Miller, D. H., Scaravilli, F., Harding, A. E. : Progressive neuronal degeneration of childhood with liver disease (Alpers' disease) presenting in young adults. Journal of Neurology, Neurosurgery and Psychiatry 58: 320-325, 1995.

45. Harding, B., Malcolm, S., Ellis, D., Wilson, J.: A case of Pelizaeus-Merzbacher disease showing increased dosage of the proteolipid protein gene. Neuropathology and Applied Neurobiology 21: 111-115, 1995.

46. Harding, B., Ramani, P., Thurley, P. : The familial syndrome of proliferative vasculopathy and hydranencephaly-hydrocephaly: immunocytochemical and ultrastructural evidence for endothelial proliferation. Neuropathology and Applied Neurobiology 21: 61-67, 1995.

47. Morris, A., Leonard, J. V., Brown, G. K., Bidouki, S. K., Bindoff, L. A., Woodward, C. E., Harding, A. E., Lake, D., Harding, B., Farrell, M. A., Bell, J. E., Mirakhur, M., Turnbull, D. M.: Deficiency of respiratory chain complex I is a common cause of Leigh disease. Ann Neurol 40(1): 25-30, 1996.

48. Reardon, W., Harding, B., Winter, R. M., Baraitser, M. : Hemihypertrophy, Hemimegalencephaly, and Polydactyly. American Journal of Medical Genetics 66: 144-149, 1996.

49. Martland, T., Harding, B., Morton, R. E., Young, I. : Dentato-olivary dysplasia in sibs: an autosomal recessive disorder? Journal of Medical Genetics 34: 1021-1023, 1997.

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51. Stapleton, S. R., David, K. M., Harkness, W. F. J., Harding, B. : Central neurocytoma of the cervical spinal cord. Journal of Neurology, Neurosurgery and Psychiatry 63: 119, 1997.

52. Bailey, A., Luthert, P., Dean, A., Harding, B., Janota, I., Montgomery, M., Rutter, M., Lantos, P. : A clinicopathological study of autism. Brain 121: 889-905, 1998.

53. Bennetto, L., Foreman, N., Harding, B., Hayward, R., Ironside, J., Love, S., Ellison, D.: Ki-67 immunolabeling index is a prognostic indicator in childhood posterior fossa ependymomas. Neuropathology and Applied Neurobiology 24: 434-440, 1998.

54. Dale, R. C., de-Sousa, C., Chong, W. K., Cox, T. C., Harding, B., Neville, B. G. : Acute disseminated encephalomyelitis, multiphasic disseminated encephalomyelitis and multiple sclerosis in children. Brain 123(2407-2422), 2000.

55. Lewandowicz, G. M., Harding, B., Harkness, W., Hayward, R., Thomas, D. G., Darling, J. L. : Chemosensitivity in childhood brain tumours in vitro: evidence of differential sensitivity to lomustine (CCNU) and vincristine. Eur J Cancer 36(15): 1955-1964, 2000.

56. Costa, C., Harding, B., Copp, A. J. : Neuronal migration defects in the Dreher (Lmx1a) mutant mouse: role of disorders of the glial limiting membrane. Cereb Cortex 11(6): 498-505, 2001.

57. Eriksson, S. H., Thom, M., Heffernan, J., Lin, W. R., Harding, B., Squier, M. V., Sisodiya, S. M : Persistent reelin-expressing Cajal-Retzius cells in polymicrogyria. Brain 124 (PT 7): 1350-1361, 2001.

58. Harding, B., Thom, M. : Bilateral hippocampal, granule cell dispersion: autopsy study of 3 infants. Neuropathology and Applied Neurobiology 27: 245-251, 2001.

59. Ward, S., Harding, B., Wilkins, P., Harkness, W., Hayward, R., Darling, J. L., Thomas, D. G., Warr, T. : Gain of 1q and loss of 22 are the most common changes detected by comparative genomic hybridisation in paediatric ependymoma. Genes Chromosomes Cancer 32(1): 59-66, 2001.

60. Warr, T., Ward, S., Burrows, J., Harding, B., Wilkins, P., Harkness, W., Hayward, R., Darling, J., Thomas, D.: Identification of extensive genomic loss and gain by comparative genomic hybridisation in malignant astrocytoma in children and young adults. Genes Chromosomes Cancer 31(1): 15-22, 2001.

61. Barnes, N. P., Pollock, J. R., Harding, B., Hayward, R. D.: Papillary glioneuronal tumour in a 4-year-old. Pediatr Neurosurg 36(5): 266-270, 2002.

62. Hartley, L. M., Gordon, I., Harkness, W., Harding, B., Neville, B. G., Cross, J. H. : Correlation of SPECT with pathology and seizure outcome in children undergoing epilepsy surgery. Dev Med Child Neurol 44: 676-680, 2002.

63. Sebire, N. J., Ramsay, A., Sheppard, M., Malone, M., Harding, B., Risdon, R. A. : Intravascular inflammatory myofibroblastic tumors in infancy. Pediatr Dev Pathol 5(4): 400-404, 2002.

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65. Sisodiya, S. M., Thom, M., Lin, W. R., Bajaj, N. P., Cross, J. H., Harding, B.: Abnormal expression of cdk5 in focal cortical dysplasia in humans. Neurosci Lett 328(3): 217-220, 2002.

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67. Devlin, M., Cross, J. H., Harkness, W., Chong, W. K., Harding, B., Khadem, F., Vargha, F., Neville, B. G. : Clinical outcomes of hemispherectomy for epilepsy in childhood and adolescence. Brain 126: 556-566, 2003.

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69. Dale, R. C., Church, A. J., Surtees, R. A. H., Lees, A. J., Adcock, J. E., Harding, B., Neville, B. G. R., Giovannoni, G. : Encephalitis lethargica syndrome: 20 new cases and evidence of basal ganglia autoimmunity. Brain 127(PART 1): 21-33, JAN 2004.

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72. Ansorge, O., Giunti, P., Michalik, A., Van Broeckhoven, C., Harding, B., Wood, N., Scaravilli, F.: Ataxin-7 aggregation and ubiquitination in infantile SCA7 with 180 CAG. Annals of Neurology 56(3): 448-452, SEP 2004.

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74. Thom, M., Harding, B., Lin, W. R., Martinian, L., Cross, H., Sisodiya, S. M. : Cajal-Retzius cells, inhibitory interneuronal populations and neuropeptide Y expression in focal cortical dysplasia and microdysgenesis. Acta Neuropathol 105(6): 561-569, 2004.

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76. Thom, M., Martinian, L., Sen, A., Cross, J. H., Harding, B., Sisodiya, S. M. : Cortical neuronal densities and lamination in focal cortical dysplasia. Acta Neuropathologica 110(4): 383-392, OCT 2005.

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81. Riney, C. J., Harding, B., Harkness, W. J. F.: Hippocampal sclerosis in children with lesional epilepsy is influenced by age at seizure onset. Epilepsia 47(1): 159-166, JAN 2006.

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