

UNIVERSITY OF PENNSYLVANIA - PERELMAN SCHOOL OF MEDICINE
Curriculum Vitae

Date: 06/17/2016

Brenda Louise Banwell, MD

Address: The Children's Hospital of Philadelphia
Division of Neurology
34th St. & Civic Center Blvd.

Philadelphia, PA 19104 USA

If you are not a U.S. citizen or holder of a permanent visa, please indicate the type of visa you have:
RES

Education:

1989	2 yrs	University of Western Ontario Undergraduate, Biology Year I and II ((Undergraduate, Biology Year I and II))
1991	M.D.	University of Western Ontario (Pediatrics)

Postgraduate Training and Fellowship Appointments:

1991-1992	Pediatrics Comprehensive Intern, University of Western Ontario - Children's Hospital of Western Ontario
1992-1993	Pediatrics Resident Year II, University of Western Ontario-Children's Hospital of Western Ontario
1993-1994	Pediatrics Resident Year III, University of Western Ontario - Children's Hospital of Western Ontario
1994-1995	Pediatric Neurology- - Resident Year IV, University of Toronto-The Hospital for Sick Children
1995-1997	Co-Chief Resident, Pediatric Neurology-Resident Year V, University of Toronto-The Hospital for Sick Children
1996-1997	Chief Resident, Pediatric Neurology-Resident Year VI, University of Toronto-The Hospital for Sick Children
1997-1999	Neuromuscular Research Fellow, Mayo Clinic

Military Service:

[none]

Faculty Appointments:

1999-2006	Assistant Professor of Pediatrics (Neurology), University of Toronto, Toronto, Ontario
2005-2010	Associate Faculty, Institute of Medical Science, University of Toronto, Toronto, Ontario
2006-2012	Associate Professor of Pediatrics (Neurology), University of Toronto, Toronto, Ontario
2010-present	Adjunct Professor, Faculty of Graduate Studies (Graduate Program in Psychology), York University, Toronto, Ontario

2010-present	Full Faculty Member, Institute of Medical Science, University of Toronto, Toronto, Ontario
2012	Full Professor of Pediatrics (Neurology), University of Toronto, Toronto, Ontario
2012-present	Professor of Neurology at the Children's Hospital of Philadelphia, University of Pennsylvania School of Medicine
2012-present	Professor of Pediatrics, University of Pennsylvania School of Medicine (Secondary)

Hospital and/or Administrative Appointments:

1993-1994	Clinical Assistant, Neonatology (part-time), St. Joseph's Hospital, London, Canada
1996-1997	Clinical Assistant, Emergency Medicine (part-time), The Hospital for Sick Children, Toronto, Ontario
1999-2012	Director, Pediatric Multiple Sclerosis Clinic, The Hospital for Sick Children, Toronto, Ontario
1999-2002	Project Director, Research Institute, The Hospital for Sick Children, Toronto, Ontario
2002-2009	Associate Scientist, Research Institute, The Hospital for Sick Children, Toronto, Ontario
2003-2004	Department of Pediatric Laboratory Medicine, Advisory Committee, Member, The Hospital for Sick Children, Toronto, Ontario, Member- 2003 - 2004
2009-2012	Senior Associate Scientist, Research Institute, The Hospital for Sick Children, Toronto, Ontario
2012-present	Adjunct Senior Associate Scientist, Research Institute, The Hospital for Sick Children, Toronto, Ontario
2012-present	Chief of Pediatric Neurology, The Children's Hospital of Philadelphia

Other Appointments:

[none]

Specialty Certification:

1995	FRCP(C), Royal College of Physicians and Surgeons of Canada, Ottawa, Ontario Subject: Pediatrics
1997	FRCP(C), Royal College of Physicians and Surgeons of Canada, Ottawa, Ontario Subject: Neurology

Licensure:

1991	MD, Licentiate of the Medical Council of Canada
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Awards, Honors and Membership in Honorary Societies:

1985-1989	The Trois Pistoles 50th Anniversary Scholarship (University of Western Ontario Entrance Scholarship) - 4 year award
1986	National Science and Research Council Award.

1987-1991	Dean's Honour Roll, Medicine - 4 year award.
1988	The Rix Family Prize in Pathology.
1988	The London Academy of Medicine Entrance Scholarship
1989	M.D.S. Health Group Prize in Pathology.
1989-1991	Alpha Omega Alpha Honour Society - 2 year award.
1989	Bronze W Award-Varsity Swimming.
1990	The Martin and Mary Leboldus Award, University of Western Ontario - (awarded for top performance in clerkship).
1991	The Dr. Henri Breault Award, University of Western Ontario - (awarded to the graduating medical student with the highest achievement in Pediatrics).
1991	The Hewlett-Packard Top Medical Graduate Award, University of Western Ontario - (awarded to the top five students in the graduating class).
1993	The Wyeth Award for Pediatric Research - (awarded for best presentation at the Sixth Annual Resident Research Day, Department of Pediatrics, University of Western Ontario. "HMPAO versus CT Scan: Comparisons in Pediatric Traumatic Brain Injury").
1994	The Neurosciences Research Award - (awarded for best presentation at the Neuroscience Research Day, Department of Neurology, University of Western Ontario. "Phenytoin pharmacokinetics in the first three months of life").
1994	The Resident Teaching Award, University of Western Ontario - (awarded annually by the graduating medical school class).
1996	The Pritchard Prize - (awarded for the best presentation at the Annual Neurology Resident Research Day, Department of Pediatric Neurology, University of Toronto. "Infantile Spasms: the Role of MRI")
1997	American Academy of Neurology Resident Scholarship Award - (presented at the 49th Meeting of the American Academy of Neurology, April, 1997)
1997	Humanitarian Award - (awarded by The Hospital for Sick Children Foundation)
1997	The President's Prize - (awarded by the Canadian Congress of Neurological Sciences and presented at the Plenary Session of the 32nd Annual Meeting, June, 1997. "Mobius Syndrome -skeletal and facial muscle pathology").
2000	The Department of Neurology Research Award, Mayo Clinic-(awarded by the Mayo Clinic Foundation)
2002	Faculty Award for Clinical Excellence, The Hospital for Sick Children
2002	The William A. Hawke Award, Clinical Excellence in Teaching, The Hospital for Sick Children.
2004	The William A. Hawke Award-Clinical Excellence in Teaching, The Hospital for Sick Children

2006	Canada's Top 40 Under 40 Recipient
2006	AAN Leadership Development Program (Selected), American Academy of Neurology
2006	The William A. Hawke Award-Clinical Excellence in Teaching, The Hospital for Sick Children
2007	Woman Against Multiple Sclerosis-Woman of the Year Award
2008	Robert Salter Humanitarian Award Nominee-The Hospital for Sick Children
2012	The CANMEDS Award for Clinical Excellence, Division of Neurology, The Hospital for Sick Children
2012	The William A. Hawke Award-Clinical Excellence in Teaching, The Hospital for Sick Children
2014	"Women on the Move", Mainline Today
2015	Sydney Carter Award, American Academy of Neurology and The American Brain Foundation

Memberships in Professional and Scientific Societies and Other Professional Activities:

International:

1999-Present	Consortium of Multiple Sclerosis Centers
2000-Present	Xth International Congress of Neuromuscular Diseases (Young Investigator Advisory Board, Appointed Member)
2004-Present	Myositis Support Group UK (International Juvenile Dermatomyositis Biopsy Consensus Group, Invited Member)
2007-Present	International Child Neurology Society
2007-Present	International Pediatric Multiple Sclerosis Study Group (Research Chair)
2007-Present	International Pediatric Multiple Sclerosis Study Group (Steering Committee)
2010-Present	International Advisory Committee on Clinical Trials of New Drugs in MS, Invited member
2010-Present	Multiple International Federation, McDonald Diagnostic Criteria, Invited Member

National:

1995-Present	American Academy of Pediatrics
1997-Present	American Academy of Neurology

- 1999-2008 Muscular Dystrophy Canada (Client Services Board, Invited Member, 1999-2002
Medical and Scientific Advisory Board, Invited Member, 1999 - 2008
Board of Directors, Elected Member, 2001 - 2008
Health Professional/Neuromuscular Clinic Working Group, Invited Member, 2003 -
2008
Medical and Scientific Advisory Board, Chair, 2005 - 2007)
- 1999-Present Ontario Medical Association
- 2000-2005 World Muscle Society
- 2004 Canadian Blood Services
(Advisory Panel on the use of Intravenous Immunoglobulin, Invited Member
May 2004)
- 2004-Present Canadian Medical Association
- 2004-2008 National Multiple Sclerosis Society, USA (International Pediatric Multiple Sclerosis
Working Group, Invited member, 2003 - 2007

National Multiple Sclerosis Society, Pediatric Multiple Sclerosis Task Force, Invited
Member, 2004 - 2007

National Multiple Sclerosis Task Force on Differential Diagnoses, Invited Member,
2006 - 2008)
- 2005-2009
Guillain Barre Foundation of Canada
(Board of Directors, Elected Member, 2005 - 2009)
- 2005-present American Academy of Neurology
(Science Committee, Invited Member 2005 - 2010
Leadership Program Development Committee, Invited member-2007 - Present
Meeting Management Committee, Invited Member, 2011 - Present)
- 2005-Present Canadian Association of Child Neurology
- 2005-Present Canadian Multiple Sclerosis Society (Medical Grants Review Committee, Invited
Member, 2005-2009
endMS Campaign Steering Committee, Invited Member, 2008-Present
Medical Advisory Committee, Invited Member-2010-Present)
- 2005-2010 The Royal College of Physicians and Surgeons of Canada
(Royal College Board Examinations (Neuropediatrics), Examiner)
- 2006-Present Coalition for Child and Youth Health, Canadian Institutes of Health and Research

2010-Present	National Institute of Neurological Disorders and Stroke, National Institutes of Health (Common Data Element Task Force, Multiple Sclerosis Database Working Group, Member, 2010 - Present)
2012-2017	Meeting Management Committee, American Academy of Neurology (Member)
2013-Present	American Neurological Association, Fellow (Fellow - 2013 - Present)
2015-Present	American Neurological Association, (Annuals/ACTN Oversight Committee Member)
2015-2017	Americas Committee for Treatment & Research in MS (ACTRIMS) Board Member
2015-Present	Consortium of Multiple Sclerosis Centers, Member
2015-Present	Society for Pediatric Research, Nominated Member
2016-2018	Child Neurology Society, Scientific Planning Committee
<u>Local:</u>	
2014-Present	Philadelphia Neurology Society (Member)

Editorial Positions:

2000-Present	Editorial Board Member and Invited Manuscript Reviewer: Neurology
2001-Present	Invited Manuscript Reviews: Journal of Neurology
2002-Present	Invited Manuscript Reviews: Multiple Sclerosis
2002-Present	Invited Manuscript Reviews: Pediatric Research
2002-Present	Invited Manuscript Reviews: Pediatrics and Child Health
2004-Present	Invited Individual Grant Reviews: Alberta Children's Hospital Foundation
2004-Present	Invited Manuscript Reviews: The Canadian Journal of Neurological Sciences
2004-Present	Invited Manuscript Reviews: Journal of Rheumatology
2004-Present	Invited Manuscript Reviews: Arthritis Care and Research
2004-Present	Invited Individual Grant Reviews: Multiple Sclerosis Society of Canada Research Grant Committee
2004-Present	Invited Manuscript Reviews: The Canadian Journal of Neurological Sciences
2004-Present	Invited Manuscript Reviews: Journal of the American Medical Association
2004-Present	Invited Individual Grant Reviews: Physician Services Incorporated
2005-Present	Invited Manuscript Reviews: Medical Science Monitor International Reviewer Panel

2006-2010	Editorial Board: Multiple Sclerosis
2006-Present	Invited Individual Grant Reviews: CIHR
2009-Present	Invited Manuscript Reviews: Journal of the Neurological Sciences
2009	Editor, Guest: Continuum Journal - Childhood Neurologic Disorders in Adulthood
2010-Present	Invited Manuscript Reviews: Lancet Neurology
2011-Present	Multiple Sclerosis and Related Disorders, Founding and Senior Editor

Academic and Institutional Committees:

1999-2006	Medical Student Evaluations Committee, The Hospital for Sick Children, Observed History and Physical Exams
1999-2003	Pediatric Undergraduate Medical Education Committee, The Hospital for Sick Children, Member
1999-2006	Member, Neurology Education Committee, The Hospital for Sick Children, Toronto, Ontario
2000-2005	Pediatric Resident Selection Committee, The Hospital for Sick Children, Interviewer
2000-2006	Pediatric Resident Selection Committee, The Hospital for Sick Children, Member
2001-2002	Member Brain Death Committee, The Hospital for Sick Children, Toronto, Ontario
2003-2009	Member, Clinical Advisory Committee, The Hospital for Sick Children, Toronto, Ontario
2003-2004	Department of Pediatric Laboratory Medicine, Advisory Committee, The Hospital for Sick Children, Toronto, Ontario, Member
2003-2004	Organ Donation Committee, The Hospital for Sick Children, Toronto, Ontario, Member
2004-2007	Research Education Steering Committee, Member, Research Institute, The Hospital for Sick Children, Toronto, Ontario
2005	Department of Pediatrics, Search Committee, The Hospital for Sick Children, Toronto, Ontario, Member
2005	Department of Pediatrics, External Review, The Hospital for Sick Children, Toronto, Ontario, Member
2006	Masters Thesis Examination Committee, Institute of Medical Sciences, University of Toronto, Examiner - Mahendra Moharir, MSc. Candidate
2006-Present	Collaborative Program in Neuroscience - Institute of Medical Science, University of Toronto, Member
2006-2009	Master's Thesis - Collaborative Program, Institute of Medical Sciences, University of Toronto, Supervisor-Allison Bethune, Master's Candidate
2007-2009	Chair, Brain & Behavior Cross Talks, Research Institute, The Hospital for Sick Children

2008-2010	PhD Thesis - Collaborative Program - Department of Nutritional Sciences, University of Toronto, Co-Supervisor-Heather Hanwell, PhD Candidate
2008-2010	Master's Thesis - Collaborative Program, Institute of Medical Sciences, University of Toronto, Supervisor-Len Verhey, Master's Candidate
2008-Present	Centre for Computational Biology Advisory Committee, The Hospital for Sick Children, Toronto, Member
2010-Present	Graduate Faculty, Institute of Medical Science, University of Toronto, Full Member
2010-Present	PhD Thesis- Collaborative Program, Institute of Medical Sciences, University of Toronto, Supervisor-Leonard Verhey, PhD Candidate
2010-Present	Master's Thesis - Collaborative Program, Institute of Medical Sciences, University of Toronto. Supervisor-Marina Sonkin, Master's Candidate
2010-Present	PhD Thesis-Collaborative Program, Institute of Medical Sciences, University of Toronto, Supervisor-Nadine Akbar, PhD Candidate
2012-present	Chairperson, Neurology Executive Committee
2012-present	Member, Resident Selection Committee
2015-present	Member, Internal Advisory Committee of The Intellectual & Developmental Disabilities Research Center. The Children's Hospital of Philadelphia

Major Academic and Clinical Teaching Responsibilities:

2000	The Hospital for Sick Children, Pediatric Update Meeting, Toronto, Ontario, Apr 2000. Yes, kids get MS too!
2000	The Hospital for Sick Children - Paediatric Grand Rounds, Toronto, Ontario, May 2000. Clinical-Pathological Conference.
2000	The Hospital for Sick Children - Neurology Grand Rounds, Toronto, Ontario, Sep 2000. Weaving a tangled web: Intermediate filament-associated myopathies.
2000	The Hospital for Sick Children - Neurology Grand Rounds, Toronto, Ontario, Nov 2000. Pediatric Multiple Sclerosis .
2000	The Hospital for Sick Children - Neurology Grand Rounds, Toronto, Ontario, Dec 2000. Tumefactive Demyelination.
2001	The Hospital for Sick Children, Pediatric Update meeting, Toronto, Ontario, May 2001. Advances in diagnostic evaluation of the floppy infant.
2001	The Hospital for Sick Children Pediatric Update meeting, Toronto, Ontario, May 2001. Myelin is Getting on my Nerves - Pediatric Multiple Sclerosis.
2001	The Hospital for Sick Children, Neurology Grand Rounds, Toronto, Ontario, Nov 2001. Neuropsychological Studies in Pediatric Multiple Sclerosis.
2001	Community Neurology Education Seminar, Toronto, Ontario, Nov 2001. Pediatric Multiple Sclerosis .

- 2002 The Hospital for Sick Children, Toronto, Ontario, Jan 2002. Neurosurgery Lecture-Neurological Exam of Infants & Children.
- 2002 National Multiple Sclerosis, Nurses Association, Quebec City, Quebec, Mar 2002. Pediatric Multiple Sclerosis-Diagnosis and Treatment.
- 2002 Pediatric Update Meeting, The Hospital for Sick Children, Toronto, Ontario, May 2002. Advances in the Diagnostic Evaluation of the Floppy Infant.
- 2002 The Hospital for Sick Children - Pediatric Educational Resident Lecture Series, Toronto, Ontario, Oct 2002. Neuromuscular Disorders.
- 2002 The Hospital for Sick Children, Toronto, Ontario, Oct 2002. Virological Studies in Pediatric Multiple Sclerosis.
- 2002 Pediatric Multiple Sclerosis, Mont-Tremblant, Quebec, Oct 2002. Women's Neurology Multiple Sclerosis Forum.
- 2002 Pediatric Multiple Sclerosis, Mont-Tremblant, Quebec, Oct 2002. Women's Neurology Multiple Sclerosis Forum.
- 2002 Neurology Lecture Series - Toronto Western Hospital, Toronto, Ontario, Nov 2002. Inherited Myopathies.
- 2003 Neurology Lecture Series, Toronto Western Hospital, Toronto, Ontario, Feb 2003. Neuromuscular Complications of Critical Illness in ICU Patients.
- 2003 City Wide Rounds - Hotel-Intercontinental, Toronto, Ontario, May 2003. A Picture is Worth a Thousand Words: neuroimaging - who, when and how?
- 2003 The Hospital for Sick Children- Ophthalmology Rounds, Toronto, Jun 2003. Pediatric Multiple Sclerosis.
- 2004 Pediatric Update Meeting - The Hospital for Sick Children, Toronto, Ontario, Apr 2004. A picture is worth a thousand words: who, when, how?
- 2004 The Hospital for Sick Children, Toronto, Ontario, Apr 2004, Pediatric R4 Lecture Preparation Session for the Royal College of Physicians and Surgeons of Canada Examinations
- 2004 The Hospital for Sick Children - Neurology Grand Rounds, Toronto, Ontario, Aug 2004. Demyelination in Canadian children.
- 2004 The Hospital for Sick Children - Neurology Neuromuscular Research Day, Toronto, Ontario, Oct 2004. Congenital myopathies.
- 2004 The Hospital for Sick Children-Ophthalmology Rounds, Toronto, Ontario, Oct 2004. Optic Neuritis in Multiple Sclerosis.
- 2004 Bloorview MacMillan Children's Centre - Pediatric Grand Rounds, Toronto, Ontario, Nov 2004. Recovery from acute demyelination of the central nervous system.
- 2004 The Hospital for Sick Children - Neurology Grand Rounds, Toronto, Ontario, Nov 2004. The role of viral infections in pediatric multiple sclerosis

- 2004 Toronto Western Hospital, Toronto, Ontario, Dec 2004. Muscle Disorder Lecture.
- 2005 The Hospital for Sick Children, Toronto, Feb 2005. Neurological examination and development in children- Neurosurgery Residents Lecture.
- 2005 The Hospital for Sick Children-Neurology Rounds, Toronto, Feb 2005. Optic neuritis.
- 2005 The Hospital for Sick Children - Ophthalmology rounds, Toronto, Mar 2005. Multiple Sclerosis.
- 2005 The Hospital for Sick Children, Toronto, Ontario, Mar 2005. R4 OSCE Lecture.
- 2005 The Hospital for Sick Children - Neurology Grand Rounds, Toronto, Ontario, Apr 2005. Finding a balance: a clinician's approach to ataxia.
- 2005 The Hospital for Sick Children - Genetic Lecture, Toronto, Ontario, Nov 2005. Genetic etiology of neuromuscular disorders.
- 2005 Pediatric Update Meeting-University of Toronto Conference Centre, Toronto, Ontario, May 2005. Does white matter-acute demyelination of the CNS in children.
- 2005 The Hospital for Sick Children-Pediatric Grand Rounds, Toronto, Ontario, Oct 2005. Multiple Sclerosis in children.
- 2005 The Hospital for Sick Children-Ophthalmology Lecture, Toronto, Ontario, Nov 2005. Immunological aspects of multiple sclerosis in children.
- 2005 The Hospital for Sick Children-Research Institute Scientific Retreat, Toronto, Ontario, Nov 2005. Immunological aspects of multiple sclerosis in children.
- 2006 The Hospital for Sick Children - Ophthalmology Lecture, Toronto, Ontario, Mar 2006. Optic neuritis in children
- 2006 The Hospital for Sick Children - Samuel Lunenfeld Lecture, Toronto, Ontario, Jun 2006. Lessons children teach us - clinical research in pediatric multiple sclerosis.
- 2006 The Hospital for Sick Children - Infectious Disease Research Forum, Toronto, Ontario, Jul 2006. Viral Triggers in Multiple Sclerosis.
- 2006 The Hospital for Sick Children - Neuroscience Research Day, Toronto, Nov 2006. Clinical research in childhood multiple sclerosis.
- 2006 The Hospital for Sick Children, Ophthalmology Lecture, Toronto, Nov 2006. Optic neuritis in children-part 2.
- 2007 Neuro-Imaging Interest Group Rounds, The Hospital for Sick Children, Toronto, Ontario, Feb 2007. MRI Criteria for MS in Children.
- 2007 The Hospital for Sick Children-Neurology Grand Rounds, Toronto, Ontario, Feb 2007. Neuromyelitis optica-the role of biomarkers in demyelination.

- 2007 Toronto Western Hospital, Toronto, Ontario, Feb 2007. Core Neurology Lecture - Paediatric Multiple Sclerosis and other White Matter Disorders.
- 2007 The Hospital for Sick Children - Neurology Grand Rounds, Toronto, Ontario, Nov 2007. The role of MRI in pediatric MS: diagnosis and pathological insights.
- 2007 The Hospital for Sick Children - Research Institute Scientific Retreat, Toronto, Ontario, Dec 2007. Why is multiple sclerosis so common in Canada - The role of environmental triggers.
- 2007 The Hospital for Sick Children - Neurosciences & Mental Health Programs mini-symposia - Half Day, Toronto, Ontario, Dec 2007. Why is Multiple Sclerosis so common in Canada?
- 2008 The Hospital for Sick Children, Ophthalmology Lecture, Toronto, Ontario, May 2008. Optic neuritis in children.
- 2008 The Hospital for Sick Children, Toronto, Ontario, Oct 2008. Diffusion tensor imaging in pediatric multiple sclerosis.
- 2008 The Hospital for Sick Children - Hydro One Leadership Breakfast, Toronto, Ontario, Oct 2008. Research in a world class pediatric hospital.
- 2010 The Hospital for Sick Children - Highlighting research for the family campaign, Toronto, Ontario, May 2010. Raising children in 2010: is the modern world leading to increased risk of multiple sclerosis in children
- 2011 The Hospital for Sick Children, Neurosciences & Mental Health - Symposium on Brain Injury in Children. Toronto, Ontario, July 2011. Demyelination diseases in children.
- 2012 The Children's Hospital of Philadelphia Pediatric Grand Rounds, Philadelphia PA, Sep 2012
- 2012 Neuroscience Lecture Series, Children's National Medical Center, Washington, DC, September 2012.
- 2012 The Children's Hospital of Philadelphia, Clinical Neuroscience Conference. Philadelphia, PA, Oct 2012.
- 2013 The University Medical Center of Princeton at Plainsboro, Care Talks - Cutting Edge Medicine in Everyday Practice, Plainsboro, NJ, Jan. 2013.
- 2013 The Children's Hospital of Philadelphia, Neurodevelopmental Symposium, Philadelphia, PA, May 2013.
- 2013 Multiple Sclerosis Research Center of New York, Grand Rounds, "Pediatric Multiple Sclerosis: Lesson learned from the youngest patients". New York, New York, September 2013.
- 2013 Robert Wood Johnson Medical School, Grand Rounds, Multiple Sclerosis in Children: insights from the youngest patients. New Brunswick, NJ, Dec. 2013

- 2013 Meeting of Multiple Sclerosis Outcome Assessments Consortium and FDA Clears Pathway for New Tool for Clinical Trials in MS, Particularly Progressive Forms, National Multiple Sclerosis Society, Philadelphia, PA, April 2013
- 2013 First Scientific Meeting of the International progressive MS Collaborative - Panel participant
- 2013 Multiple Sclerosis Virtual Grand Rounds - Ask the Experts at Cleveland Clinic
- 2014 Degeneration Before Growth: the Impact of Multiple Sclerosis Onset During Childhood
- 2014 Evening with An Expert: Brain Power: Migraines, Headaches, Epilepsy, Multiple Sclerosis, Sleep Disorders and More - The Children's Hospital of Philadelphia Foundation, Philadelphia, PA, May 2014
- 2014 American Academy of Neurology - CNS Mentoring Session - Children's Hospital of Chicago, Northwestern University School of Medicine, Chicago IL,
- 2014 Neonatology Research Seminar - "Does White Matter Matter? - Lessons Learned from Pediatric Multiple Sclerosis" - The Children's Hospital of Philadelphia, Philadelphia, PA, October 2014
- 2014 American Congress of Rehabilitation Medicine 91st Annual Conference - Symposia Proposal - "Pediatric MS: Outcomes and Interventions"
- 2014 Refresher Course Clinica Alemana, "II Pediatric Board" - Clinica Alemana, Chile, May 2014
- 2014 "A Tale of Two Patients: Current and Future Approaches to MS Diagnosis and Treatment", The France Foundation, ACTRIMS Meeting, Dallas Texas
- 2014 Trial or Error?: considerations regarding therapeutic trials in pediatric MS, CMSC Annual Meeting, Dallas, Texas
- 2014 2014 Joint ACTRIMS-ECTRIMS Meeting, MSBoston 2014. Teaching Course 8, Meet the Professors: Interactive Case Discussion, Faculty Member Teaching Faculty, Boston, MA, April 2014
- 2014 Neuroradiology Conference, "Neuroimaging of Multiple Sclerosis in Children", The Children's Hospital of Philadelphia, Philadelphia, PA, December 2014
- 2014 Child & Adolescent Psychiatry Behavioral Sciences Quarterly Staff Meeting, "Topics of Potential Partnership", The Children's Hospital of Philadelphia, Philadelphia, PA
- 2014 "A Tale of Two Patients: Current and Future Approaches to MS Diagnosis and Treatment", The France Foundation. "Pediatric MS", Chair, Consortium of MS Centers (MCSC) and the American Committee for Treatment and Research in MS (ACTRIMS), Dallas, TX

2015	Protective Immunity and Immunopathology Affinity Group, "Immunology Insights in Pediatric Multiple Sclerosis", The Children's Hospital of Philadelphia, Division of Rheumatology, Philadelphia, PA
2015	Responsible Conduct of Research Session, Panelist, Peer Review, CHOP
2015	CHOP 2015 Summer Scientific Research Colloquium (SSRC), Speaker, "Journey of a Clinician-Researcher: Studies in Pediatric Multiple Sclerosis"
2015	Ask the Experts Podcast Series, Expert Panelist, The Transverse Myelitis Association
2015	"Progressive Degeneration in Pediatric MS", Neuroradiology Conference, Lecture to Residents and Fellows, The Children's Hospital of Philadelphia, Philadelphia, PA
2015	2015 Clinical Neurological Training Program Seminar Series, "The impact of Multiple Sclerosis Onset in Childhood"
2015	"Pediatric MS Teaching Course 10" ECTRIMS 2015
2015	"Lublin Clinical MS Phenotypes. Should we value similarly the Findings of MRI and Clinical Activity in Terms of MS Therapy" Pediatric MS and Related Disorders Update Meeting - European Committee for Treatment and Research in Multiple Sclerosis (ECTRIMS)
2015	Biogen's Pediatric MS Forum and Clinical Trials, Cambridge, Mass
2015	Fellows Association Talk, Panelist, "Research Mentorship" Children's Hospital of Philadelphia
2016-Present	Rheumatology Didactic Sessions Talk "Inflammation in the Brain", The Children's Hospital of Philadelphia, Department of Rheumatology

Lectures by Invitation (Last 5 years):

Jan, 2011	"Models of care for pediatric multiple sclerosis lecture", 5th MS Expert - Workshop, Gottingen, Germany.
Mar, 2011	"Imaging in children: now and the future", 2nd European Pediatric MS meeting, London, England
Apr, 2011	"Pediatric multiple sclerosis, Half Day Course", American Academy of Neurology, Hawaii.
Apr, 2011	"Diagnosis and therapy of ADEM and pediatric multiple sclerosis, Half Day Course", American Academy of Neurology, Hawaii
Apr, 2011	"Diagnostic challenges in pediatric CNS demyelinating disease, Half Day Course", American Academy of Neurology, Hawaii.
May, 2011	"Pediatric CNS inflammatory demyelination: ADEM-CIS-NMO-MS", Norwegian MS Society - World MS Day, Norway
May, 2011	"Clinical Management of Children with Multiple Sclerosis", Norwegian MS Society - World MS Day, Norway

- Sep, 2011 "New Understanding of MS Symposium", Yale University, New Haven, CT, - Invited Keynote lecture.
- Oct, 2011 "Case based approach to floppy infant", NeuroPediCon 2011, Colaba, Mumbai.
- Oct, 2011 "Acquired white matter disorders of the CNS in children", NeuroPediCon 2011, Colaba, Mumbai.
- Nov, 2011 "The role of MRI in understanding the impact of MS pathology in the developing brain of children", Wayne State University School of Medicine - Grand Rounds, Detroit, MI.
- Nov, 2011 "NMO in children", NMO Roundtable Conference 2011, Los Angeles, CA
- Nov, 2011 "Outcome measures in primary MS prevention", Vitamin D and multiple sclerosis prevention meeting, National Multiple Sclerosis Society, Chicago, IL.
- Dec, 2011 "Environmental triggers and host immune responses in pediatric MS", Johns Hopkins Neuroimmunology Seminar Series, Baltimore
- Jan, 2012 "Current and Future Trials in Pediatric Multiple Sclerosis", International Pediatric Multiple Sclerosis Study Group, Washington, DC
- Feb, 2012 "Pediatric Multiple Sclerosis Research in Canada", Vancouver Regional Research and Training Symposium, Vancouver, BC.
- Feb, 2012 "MRI insights in Pediatric Multiple Sclerosis", Cornell Neurology and Neuroscience Grand Rounds, , New York, NY
- Feb, 2012 "Pediatric Multiple Sclerosis", Multiple Sclerosis Stand Alone Meeting, Sevilla Spain
- Mar, 2012 "MRI insights in pediatric multiple sclerosis", The Hospital for Sick Children, Neurology Grand Rounds, Toronto, Ontario.
- Apr, 2012 "Differential Diagnosis of Multiple Sclerosis in Children" American Academy of Neurology, New Orleans., Half Day Course
- Apr, 2012 "Epidemiology of Multiple Sclerosis in Children", American Academy of Neurology, New Orleans. Half Day Course
- Apr, 2012 "Diagnosis and therapy of ADEM and pediatric multiple sclerosis", Half Day Course, American Academy of Neurology, New Orleans
- Sep, 2012 Children's National Medical Center, Clinical Neuroscience Conference, Washington, DC
- Oct, 2012 "Hot Topic 5: Pediatric MS - Disease Modifying Treatments Pediatric Multiple Sclerosis", 28th Congress of the European Committee for Treatment and Research in Multiple Sclerosis, (ECTRIMS), Lyon France
- May, 2013 "Pediatric multiple Sclerosis: A Window into the Neurodegenerative Biology of MS", Columbia University Medical Center, Grand Rounds, New York
- Jun, 2013 "Risk Factors and Immunobiology of Pediatric Multiple Sclerosis - Focused on International Studies", Summit for Children's Hospitals - Severance Children's Hospital, Yonsei University College of Medicine, Seoul Korea

- Jul, 2013 Summit for Children's Hospital - Seoul
- Sep, 2013 Yale University School of Medicine, New Haven, CT.,
Neuroscience Grand Rounds "Neurodegeneration in Multiple Sclerosis: Not Just for Adults", September 2013.
- Sep, 2013 "MS and Demyelinating Diseases", XXXI World Congress of Neurology, Vienna Austria
- Oct, 2013 "Advanced Imaging in Pediatric MS", Derek Harwood Nash Symposium, Toronto, Canada,
- Oct, 2013 "Pediatric Multiple Sclerosis Care", European Committee on Treatment and Research in Multiple Sclerosis (ECTRIMS) meeting, Copenhagen, Denmark
- Nov, 2013 "Optic Neuritis in Children and Comparisons with Adults", International Conference in Vision and Vision-Related Outcomes in Multiple Sclerosis, US National MS Society and ECTRIMS, Dublin, Ireland
- Dec, 2013 "Pediatric MS: A View into the Earliest Aspects of MS Biology", 2013 Annual Meeting & MS Research Update, National Multiple Sclerosis Society, Greater Delaware Valley Chapter, Philadelphia, PA
- Feb, 2014 "MRI in pediatric MS: Insights into the early aspects of MS" - UK Childhood Inflammatory Demyelination MS Experts Day, London, Heathrow
- Feb, 2014 "Pediatric Multiple Sclerosis: Journey of a Clinician-Investigator" - Grand Rounds - Medical University of South Carolina, Department of Neuroscience
- Mar, 2014 "A 3D view of Myelin Biology in pediatric MS: Demyelination, remyelination and primary myelination in the inflamed brain" Keynote Speaker. 2014 Myelin Gordon Research Conference - Ventura California
- Mar, 2014 "Journey of a Clinical Researcher: Establishing a Pediatric Multiple Sclerosis Research Program" - Grand Rounds - Cincinnati Children's Hospital, Cincinnati, Ohio
- Apr, 2014 "Pediatric Multiple Sclerosis: Journey of a Clinical Investigator" - Thomas Jefferson University, Department of Neurology, Grand Rounds
- May, 2014 "Case Study - Describe a Child with MS" National Multiple Sclerosis Society, Greater Delaware Valley Chapter, Women Against MS Luncheon, Philadelphia, PA
- Jun, 2014 "MRI Markers", Children's National Medical Center, Washington, DC
- Sep, 2014 "Pediatric MS - How Different is it?", World Congress on NeuroTherapeutics, (DDDNDilemmas, Debates, Discussions, Basel, Switzerland
- Oct, 2014 "Pediatric Multiple Sclerosis" Rutgers - New Jersey Medical School, The State University of New Jersey, Grand Rounds, Newark, NJ

- Oct, 2014 "Pediatric Neuromyelitis Optica", Johns Hopkins, Baltimore, Maryland
- Jan, 2015 1st Panhellenic Interdisciplinary Congress Meeting on Pediatric and Multiple Sclerosis "Dialogues of Hellenic Neuroscientists on Pediatric and Adolescent Multiple Sclerosis", Distinguished Speaker, Athens National University, Athens, Greece
- Feb, 2015 "Pediatric Multiple Sclerosis: Journey of a Clinician Researcher", Neurology Grand Rounds, Medical University of South Carolina, Charleston, South Carolina
- Mar, 2015 "Managing Pediatric NMO", NMO Roundtable Conference
- Mar, 2015 "Using Technology to Support Collaborative Research" Canadian Health IT Conference", Philadelphia, PA
- Apr, 2015 "Immunological and Environmental Features of Pediatric MS", Neuroimmunology Seminar Series, Johns Hopkins University School of Medicine, Baltimore, Maryland
- Apr, 2015 "Acute Inflammatory Myelopathies in Children", The Hospital for Sick Children, Toronto, ON
- Jun, 2015 "Pediatric MS", Keynote Speaker, Mellen Center Update in Multiple Sclerosis, Cleveland Clinic Education Foundation, Cleveland Clinic, Cleveland, OH
- Sep, 2015 "Technology-empowered Clinical Research: Advances in Neuroscience", 87th AHIMA Convention and Exhibit - Thought Leaders Lecture Series, AHIMA Foundation, New Orleans
- Nov, 2015 "The Neuroimaging Features of Multiple Sclerosis in Children" University of Virginia Grand Rounds, Charlottesville, Virginia
- Dec, 2015 "MRI Studies in Pediatric MS: insights into the earliest aspects of disease impact", University of Calgary Grand Rounds, Alberta MS Network Retreat, Calgary, AB
- Jan, 2016 "Diagnosis and Management of Demyelination in Children", University of Texas Southwestern Medical Center Grand Rounds, Dallas, Texas
- Jan, 2016 "Current Approaches to Pediatric Demyelinating Diseases". Philadelphia Neurological Society
- Feb, 2016 "MS in Children", Mount Sinai Medical Center Grand Rounds, New York, NY
- Mar, 2016 "Vitamin D and Pediatric MS: latest research", MS Society of Canada, 2016 Vitamin D & MS Expert Panel Meeting, MS Society of Canada, Toronto, ON
- Mar, 2016 "MRI Diagnostic Criteria in Pediatric MS", Advanced Course on Magnetic Resonance Techniques in MS, San Raffaele Scientific Institute and Vita-Salute San Raffaele University, Milan, Italy
- Mar, 2016 "MRI Studies in Pediatric MS: a window into the earliest aspects of MS pathobiology" Upstate Medical University Grand Rounds, Syracuse, NY

- Mar, 2016 "Today's Breakthroughs are Tomorrow's Treatments", Solving the Mysteries of Science: An Evening with Leading CHOP Researchers, The Philadelphia School, Philadelphia, PA
- May, 2016 "Medications in Multiple Sclerosis: New Challenges and Choices" 9th World Congress for NeuroRehabilitation, World Federation for NeuroRehabilitation (WFNR), Philadelphia, PA

Organizing Roles in Scientific Meetings:

- Jun, 2002 "Optic Neuritis in Children and Comparisons with Adults", International Conference in Vision and Vision-Related Outcomes in Multiple Sclerosis, US National MS Society and ECTRIMS, Dublin, Ireland
- Apr, 2003 American Academy of Neurology, Honolulu, Hawaii, Apr 2003. Pediatric Multiple Sclerosis - Breakfast Seminar - Responsible for the major organization of the course (Chair) Honolulu, Hawaii
- Apr, 2004 Chair, American Academy of Neurology, San Diego, CA, Pediatric Multiple Sclerosis - Breakfast Seminar Responsible for the major organization of the course. San Diego CA
- Jun, 2004 Consortium of Multiple Sclerosis Centers, Toronto, Ontario, Pediatric Multiple Sclerosis - Half Day Symposia Toronto, Ontario
- Jun, 2005 Chair, Consortium of Multiple Sclerosis Centers, Orlando, Florida, Pediatric Multiple Sclerosis - Half Day Symposia Responsible for the major organization of the course. Orlando, FL
- May, 2006 Consortium of Multiple Sclerosis Centers, Scottsdale, Arizona. What's new in multiple sclerosis in children - Half Day Symposia, Responsible for the major organization of the course. (Chair). Scottsdale, Arizona
- May, 2007 Chair, Consortium of Multiple Sclerosis Centers, Washington, DC. Case Based Pediatric Care in MS - Half Day Symposia Responsible for the major organization of the course. Washington, DC
- Apr, 2010 American Academy of Neurology - Toronto, Ontario. Acquired Demyelination in Children - Half Day Course - Responsible for organization of the course (Chair). Toronto, Ontario
- Jun, 2011 Chair, Consortium of Multiple Sclerosis Centre's, Montreal. Caring for children with multiple sclerosis in 2011: New therapies, new opportunities, and new concerns - Half Day Symposia. Montreal

- Oct, 2011 Chair, European Committee for Treatment and Research in Multiple Sclerosis, ECTRIMS) Amsterdam, Parallel Session 6: Paediatric MS - Half Day Symposium.
Amsterdam
- Jan, 2013 Chair, Keystone Symposia - on Molecular and Cellular Biology, Accelerating Life Science Discovery Clinical Controversies - Negotiating Between ADEM, CIS and MS: An Age-specific Roadmap
Washington, DC
- Mar, 2013 Chair, American Academy of Neurology 65th Annual Meeting - Diagnostic Dilemmas in Multiple Sclerosis
San Diego, CA
- Oct, 2013 Speaker and Chair - European Committee for Treatment and Research in Multiple Sclerosis, ECTRIMS) - Paediatric MS - Differences between Paediatric and Adult MS
Copenhagen, Denmark
- Dec, 2013 Judge and Speaker- 2013 endMS Conference
Montreal
- Dec, 2013 Chair - Advances in Multiple Sclerosis (AIMS) - Half Day Live Regional Meeting
Philadelphia
- Feb, 2014 Co-chair - 2014 Neuroinflammation Symposium
Toronto, Canada
- Apr, 2014 Course Director - Diagnostic Dilemmas in Multiple Sclerosis - AAN Annual Meeting
Panel Member - Women in Leadership Program - AAN Annual Meeting
Philadelphia, PA
- Jun, 2014 Symposium Director - 2014 Neuroimaging in Pediatric Brain Disorders Symposium, The Children's Hospital of Philadelphia
Philadelphia, Pa
- Apr, 2015 Director, Diagnostic Dilemmas in Multiple Sclerosis, American Academy of Neurology's, 67th Annual Meeting
Washington, DC
- Sep, 2015 Pediatric MS Update Course, European Committee for Treatment and Research in Multiple Sclerosis, ECTRIMS
Barcelona, Spain
- Oct, 2015 Work Group Leader, 2015 Transverse Myelitis Diagnostic Criteria Meeting
Dallas, Texas
- Nov, 2015 Session Chair, International Conference on Cell-Based Therapies for MS
Lisbon, Portugal

Jan, 2016 Presenter, Pediatric Networks. Progressive MS: Using Prospective Longitudinal Cohorts to Understand Pathophysiology and to Predict Disability Progression
Washington, DC

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

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2. Banwell B L, Russel J, Fukudome T, Shen X M, Stilling G, Engel A G: Myopathy, myasthenic syndrome, and epidermolysis bullosa simplex due to plectin deficiency. Journal of neuropathology and experimental neurology 58(8): 832-46, Aug 1999.
3. Banwell B L, Engel A G: AlphaB-crystallin immunolocalization yields new insights into inclusion body myositis. Neurology 54(5): 1033-41, Mar 2000.
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8. Hahn Cecil D, Miles Brenda S, MacGregor Daune L, Blaser Susan I, Banwell Brenda L, Hetherington C Ross: Neurocognitive outcome after acute disseminated encephalomyelitis. Pediatric neurology 29(2): 117-23, Aug 2003.
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12. Hahn Cecil D, Shroff Manohar M, Blaser Susan I, Banwell Brenda L: MRI criteria for multiple sclerosis: Evaluation in a pediatric cohort. Neurology 62(5): 806-8, Mar 2004.
13. Alotaibi Suad, Kennedy Julia, Tellier Raymond, Stephens Derek, Banwell Brenda: Epstein-Barr virus in pediatric multiple sclerosis. JAMA: The Journal of the American Medical Association 291(15): 1875-9, Apr 2004.
14. Banwell Brenda L, Anderson Peter E: The cognitive burden of multiple sclerosis in children. Neurology 64(5): 891-4, Mar 2005.
15. Li Rong, Johnson Anne B, Salomons Gajja, Goldman James E, Naidu Sakkubai, Quinlan Roy, Cree Bruce, Ruyle Stephanie Z, Banwell Brenda, D'Hooghe Marc, Siebert Joseph R, Rolf Cristin M, Cox Helen, Reddy Alyssa, Gutiérrez-Solana Luis González, Collins Amanda, Weller Roy O, Messing Albee, van der Knaap Marjo S, Brenner Michael: Glial fibrillary acidic protein mutations in infantile, juvenile, and adult forms of Alexander disease. Annals of Neurology 57(3): 310-26, Mar 2005.
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